

About theory, measurements and simulations of short fiber reinforced concrete

Herrmann, Heiko General Assembly of the Marie Curie Alumni Association : 4 to 5 March 2016, Venice, Italy : book of abstracts 2016 / p. 30 : ill https://www.mariecuriealumni.eu/sites/default/files/mcaa_book_of_abstracts_april_2016.pdf

Abrasive impact wear resistance of hardfacings

Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Simson, Taavi European Conference on Heat Treatment and 22nd IFHTSE Congress : Heat Treatment and Surface Engineering from tradition to innovation : Venice (Italy), 20-22 May 2015 2015 / [9] p. : ill

Abrasive wear and mechanical properties of carbide composites

Kübarsepp, Jakob; Klaasen, Heinrich; Roosaar, Tõnu; Annuka, Harri 15th International Baltic Conference "Engineering Materials & Tribology. Baltattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 56-57 : ill

Abrasive wear performance of carbide based composites

Kübarsepp, Jakob; Klaasen, Heinrich; Roosaar, Tõnu; Viljus, Mart; Traksmäa, Rainer Proceedings of European Powder Metallurgy Congress : EURO PM2007 : Toulouse (France), 15-17 October 2007. Vol. 1 2007 / p. 221-226

Abrasive wear performance of carbide composites

Klaasen, Heinrich; Kübarsepp, Jakob Wear 2006 / p. 520-526 : ill <https://doi.org/10.1016/j.wear.2005.12.004>

Abrasive wear resistance of powder composite materials : characterization and prediction

Veinthal, Renno; Kulu, Priit; Pirso, Jüri; Käerdi, Helmo; Tarbe, Riho Tribology 2008 : proceedings of the 9th International Tribology Conference : University of Pretoria, South Africa, 2-4 April 2008 2008 / p. 1.3(1)-1.3(10)

Abrasive wear resistance of powder composites at abrasive erosion and abrasive impact wear

Kulu, Priit; Veinthal, Renno; Käerdi, Helmo; Tarbe, Riho Materials science 2008 / p. 328-332 : ill

Abrasive wear resistance of powder composites at AEW and AIW

Kulu, Priit; Veinthal, Renno; Käerdi, Helmo; Tarbe, Riho 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 62

Abrasive wear resistance of the composite Fe alloy - recycled hardmetal based HVOF sprayed coatings

Surženkov, Andrei; Sarjas, Heikki; Mikli, Valdek; Tarbe, Riho; Vallikivi, Ahto; Kulu, Priit Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 24

Abrasive wear resistant composite hardfacings with ex-situ and in-situ synthesized carbide reinforcement =

Abrasiivkulumiskindlad komposiitpindad ex-situ ja in-situ sünteesitud karbiidkõvafaasiga

Tkachivskiy, Dmytro 2021 <https://doi.org/10.23658/taltech.41/2021> <https://digikogu.taltech.ee/et/Item/4ee05e38-b68b-4bb6-a708-6f2b8159f947>

Acceleration data acquisition and processing system for structural health monitoring

Herranen, Henrik; Kuusik, Alar; Saar, Tõnis; Reidla, Marko; Land, Raul; Märten, Olev; Majak, Jüri 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 244-248 : ill

Adding waste paper to clay plaster to raise its ability to buffer moisture

Nutt, Nele; Kubjas, Ardo; Nei, Lembit Proceedings of the Estonian Academy of Sciences 2020 / p. 179–185 : ill
<https://doi.org/10.3176/proc.2020.3.01> https://kirj.ee/public/proceedings_pdf/2020/issue_3/proc-2020-3-179-185.pdf [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of aluminum-based metal matrix composites - a review

Tang, Shengyang; Ummethala, Raghunandan; Suryanarayana, Challapalli; Eckert, Jürgen; Prashanth, Konda Gokuldoss; Wang, Zhi Advanced engineering materials 2021 / 2100053 <https://doi.org/10.1002/adem.202100053>

Additive manufacturing of CMCs with bimodal microstructure

Maurya, Himanshu Singh; Vikram, R. J.; Kosiba, Konrad; Juhani, Kristjan; Sergejev, Fjodor; Suwas, Satyam; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 168416, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2022.168416> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of Mo-Mo(x)S(x+1) functional structures : engineering and electrochemical applications = **Lisandustehnoloogia teel valmistatud Mo-Mo(x)S(x+1) funktsionaalsed struktuurid inseneri- ja elektrokeemilistele rakendustele**

Alinejadian, Navid 2022 <https://doi.org/10.23658/taltech.43/2022> <https://digikogu.taltech.ee/et/Item/636a0175-ae97-4a28-a2a1-c3b75c7c1eb6> https://www.ester.ee/record=b5511559*est

Additive manufacturing of novel ceramic-based composite scaffolds for bone tissue engineering = **Uudsete keraamilal põhinevate komposiitkarkasside kihtlisandustehnoloogia luukoetehnika**

Kamboj, Nikhil Kumar 2020 https://www.ester.ee/record=b5379547*est <https://digikogu.taltech.ee/et/Item/92f8dc95-1820-45b0-bbdc-4193e44ec978>

Additive manufacturing of silicon-wollastonite/bioactive glass based biomaterials by Selective Laser Melting

Kamboj, Nikhil Kumar; Rodríguez Barbero, M. A.; Rodrigo, C.; Kazantseva, Jekaterina; **Hussainova, Irina** 44th International Conference & Exposition on Advanced Ceramics and Composites, January 26–31, 2020, Daytona Beach, Florida : Abstract book 2020 / art. ICACC-S5-028-2020 ; p. 133 https://ceramics.org/wp-content/uploads/2018/09/ICACC20_Abstracts_WebFinal.pdf

Additively manufactured mesostructured MoSi₂-Si₃N₄ ceramic lattice

Minasyan, Tatevik; Liu, Le; Holovenko, Yaroslav; **Aydinyan, Sofiya**; **Hussainova, Irina** Ceramics international 2019 / p. 9926-9933 <https://doi.org/10.1016/j.ceramint.2019.02.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Adhesion measuring method optimization in reinforced composites

Karjust, Kristo; **Pohlak, Meelis**; **Majak, Jüri** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 633-638 : ill

Adhesion of AlCrN coating deposited on TiB₂/Ti composites sintered by SPS dedicated for high temperature tribological applications

Michalczewski, Remigiusz; Kalbarczyk, M.; Slomka, Z.; **Hussainova, Irina**; Liu, Le; **Antonov, Maksim** IOP conference series : materials science and engineering 2021 / art. 012010, 9 p <https://doi.org/10.1088/1757-899X/1140/1/012010>

Adhesion wear performance of carbide-base composites

Roosaar, Tõnu; **Kübarsepp, Jakob**; **Klaasen, Heinrich**; **Viljus, Mart** Proceedings of Nordtrib 2008 : 13th Nordic Symposium on Tribology : Tampere, Finland, 10-13 June, 2008 2008 / [10] p

ALD applied to conformal rare-earth coating of ZnO nanoparticles for low temperature thermal imaging applications

Rauwel, Erwan; Galeckas, Augustinas; Rauwel, Protima ECS transactions 2014 / p. 23-31 : ill <https://doi.org/10.1149/06409.0023ecst> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Alkylresorcinolic resin-wood composite material

Süld, Tiia-Maaja; **Christjanson, Peep** Stambiamolekuliu junginiu chemija ir technologija = Polymer chemistry and technology 1997 / p. 72-78

Al-SiC nanocomposites produced by high-energy milling and hot pressing

Kollo, Lauri; Bradbury, Christopher R.; Leparoux, Marc 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 25 : ill

Aluminium - stainless steel hybrid composites obtained by selective laser melting and centrifugal casting [Online resource]

Holovenko, Yaroslav; **Kollo, Lauri**; **Kolnes, Märt** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmdk.ut.ee/teesid/>

Aluminum based composite by novelty process : Repetitive Press Roll Bonding (RPRB)

Pramono, Agus; **Kollo, Lauri**; **Veinthal, Renno** Procedia chemistry 2015 / p. 473-479 : ill <http://dx.doi.org/10.1016/j.proche.2015.12.081>

Aluminum matrix composites reinforced with metallic glass particles with core-shell structure

Guana, H.D.; Lia, C.J.; Gao, P.; **Prashanth, Konda Gokuldoss** Materials science and engineering : A 2020 / art. 138630, 5 p. : ill <https://doi.org/10.1016/j.msea.2019.138630> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An advanced finite element model of IPMC

Pugal, Deivid; Kasemägi, Heiki; **Kruusmaa, Maarja**; Aabloo, Alvo Electroactive Polymer Actuators and Devices (EAPAD) 2008 2008 / p. 692711

An orthotropic material model for steel fibre reinforced concrete based on the orientation distribution of fibres

Eik, Marika; Puttonen, Jari; **Herrmann, Heiko** Composite structures 2015 / p. 324-336 : ill <https://doi.org/10.1016/j.compstruct.2014.11.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis and design of multifunctional laminated glass composite structures

Majak, Jüri; **Pohlak, Meelis**; **Õunapuu, Erko**; **Auriemma, Fabio**; **Rämmal, Hans**; **Saarts, Samo** 24th International Conference on Composites/Nano-Engineering : ICCE-24 : Haikou, Hainan Island, China, July 17-23, 2016 2016 / [2] p. : ill

Analysis and realization of composite roof shells

Õiger, Karl International Symposium on Theory, Design and Realization of Shell and Spatial Structures : IASS 2001 : Oct 9-13, 2001, Nagoya, Japan : extended abstracts 2001 / p. 414-415

Analysis of short fibres orientation in steel fibre-reinforced concrete (SFRC) by X-ray tomography

Suuronen, Jussi-Petteri; **Eik, Marika; Herrmann, Heiko** Journal of materials science 2013 / p. 1358-1367 : ill

<https://doi.org/10.1007/s10853-012-6882-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ando Jukk: Eesti on liiga väike riik, et täiendavate nõuetega hakkama saada

Aunap, Sigrid Eesti Tööstus 2023 / lk. 4-8 : fot https://www.ester.ee/record=b5283062*est

Anisotropic thermal conduction in hierarchically structured composite using graphene-augmented alumina nanofibers

Saffarshamshirgar, Ali; Ivanov, Roman; Gasik, Michael; **Hussainova, Irina** XVI Conference and Exhibition Of The European Ceramic Society : abstract book 2019 / p. 167

Antibacterial activity of chitosan-silver nanocomposites

Kasemets, Kaja; **Laanoja, Jüri;** Kahru, Anne Debrecen Colloquium on Carbohydrates 2020 in 2022, August 24-27, 2022 Debrecen, Hungary : program and abstracts 2022 / p. 47 https://konferencia.unideb.hu/sites/default/files/file_uploads/debcarb-abstract-elektronikus-2022-kesz_04-cor_0.pdf

Application of nanoindentation for constituent phases testing in ceramic-metal composites

Hussainova, Irina; Jasiuk, Iwona; **Hussainov, Medhat** Technical proceedings of the 2010 NSTI Nanotechnology Conference & Expo - Nanotech 2010. Vol. 1, Nanotechnology 2010 : Advanced materials, CNTs, Particles, Films and Composites 2010 / p. 152-155 : ill

Application of the continuous indentation test method for the characterization of mechanical properties of B4C/Al composites

Kimmari, Eduard; Kommel, Lembit Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 399-407 : ill

Application potential of combining strain hardening cementitious composites and helical reinforcement for 3D concrete printed structures : case study of a spiral staircase

Hass, Lauri; Neftci, K.; Bos, F. P.; Salet, T. A. M. Journal of building engineering 2023 / art. 107926

<https://doi.org/10.1016/j.jobbe.2023.107926> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application-oriented performance characterization of the ionic polymer transducers (IPTs) = loonpolümeeridest täiturite võimekuse karakteriseerimine rakendusteks

Hunt, Andres 2017 <https://digi.lib.ttu.ee/i/?7576> https://www.ester.ee/record=b4670806*est

Assessment of 3D printed steels and composites intended for wear applications in abrasive, dry or slurry erosive conditions

Kumar, Rahul, 1993-; Antonov, Maksim; Beste, U.; **Goljandin, Dmitri** International journal of refractory metals and hard materials 2020 / art. 105126, 9 p. : ill <https://doi.org/10.1016/j.ijrmhm.2019.105126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of cermets performance in erosive media

Hussainova, Irina; Antonov, Maksim International journal of materials & product technology 2007 / 3/4, p. 361-376 : ill <https://www.inderscience.com/info/inarticle.php?artid=13085>

Assessment of residual stresses in steels and carbide composites by load and depth sensing indentation with spherical indenter

Sergejev, Fjodor; Petrov, Mihail Estonian journal of engineering 2012 / p. 259-269 : ill

Assessment of the wear resistance of multiphase materials

Hussainova, Irina; Kübarsepp, Jakob Advances in Powder Metallurgy and Particulate Materials : Hard Metals/Refractory Metals/Composites. Vol. 9 2004 / p. 16-27

Assessment of the wear resistance of multiphase materials [Electronic resource]

Hussainova, Irina; Kübarsepp, Jakob Advances in Powder Metallurgy & Particulate Materials - 2004 : proceedings of the 2004 International Conference on Powder Metallurgy & Particulate Materials, June 13-17, Chicago, IL 2004 / p. 16-27. [CD-ROM]

Atomic layer deposition of alumina on g-Al₂O₃ nanofibres

Jõgiaas, Taivo; Arroval, Tõnis; **Kollo, Lauri; Hussainova, Irina** Physica status solidi (a) : applications and materials science 2014 / p. 403-408 : ill <https://doi.org/10.1002/pssa.201330083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Autotööstus on Euroopa suurim innovatsioonivedur

Kübarsepp, Jakob Postimees 2022 / Lk. 8 <https://dea.digar.ee/article/postimees/2022/05/28/12.3>

Back-calculation of elastic moduli of a ply from the moduli of cross-ply laminates

Lasn, Kaspar; Klauson, Aleksander; Echtermeyer, Andreas T. Mechanics of composite materials 2015 / p. 55-68 : ill

Behaviour of carbide composites in different operation conditions

Kübarsepp, Jakob; Klaasen, Heinrich; Viljus, Mart; Traksmaa, Rainer; Sergejev, Fjodor Powder metallurgy progress 2011 / p. 258-264 : ill

Biocomposites materials based on lignocellulosic fibres and thermoplastic matrices

Süld, Tiia-Maaja; Viikna, Anti PPS-24 : The Polymer Processing Society 24th Annual Meeting : June 15-19, 2008, Salerno, Italy : book of abstracts 2008 / p. II.260

Biocomposites materials based on lignocellulosic fibres and thermoplastic matrices

Süld, Tiia-Maaja; Viikna, Anti PPS-24 : The Polymer Processing Society 24th Annual Meeting : June 15-19, 2008, Salerno, Italy : program and proceedings 2008 / p. 976-978

Bio-inspired TiB₂-TiB-TiN lattices by selective laser melting

Liu, Le; Minasyan, Tatevik; Kamboj, Nikhil; Aydinyan, Sofiya; Hussainova, Irina Materials Letters 2020 / art. 128337

<https://doi.org/10.1016/j.matlet.2020.128337> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Blanking performance and fatigue endurance of carbide composites

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina; Sergejev, Fjodor; Traksmaa, Rainer Proceedings of 10th International Conference and Exhibition of the European Ceramic Society : June 17-21, 2007, Berlin 2007 / [4] p

1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes

Gudkova, Viktoria; Krumme, Andres; Märtsen, Triin; Rikko, M.; Tarasova, Elvira; Savest, Natalja; Viirsalu, Mihkel Journal of electrostatics 2015 / p. 11-16 : ill <https://doi.org/10.1016/j.elstat.2015.09.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes [Online resource]

Vassiljeva, Viktoria; Krumme, Andres; Märtsen, Triin; Rikko, M.; Tarasova, Elvira; Savest, Natalja; Viirsalu, Mihkel Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

Boron carbide based composites microstructure and properties relationships to processing features

Kommel, Lembit; Kübarsepp, Jakob; Klaasen, Heinrich European Powder Metallurgy Conference on Meeting the Challenges of a Changing Market Place : EURO PM2003 : Valencia, Spain, October 20-22, 2003 : conference proceedings. Volume 2 2003 / p. 87-92

Boron containing solid and superhard composites production techniques and properties [Electronic resource]

Kommel, Lembit; Kübarsepp, Jakob; Tarraste, Marek; Kolnes, Märt World PM2016 proceedings 2016 / [6] p. : ill. [USB]

Challenges and perspectives in control of ionic polymer-metal composite (IPMC) actuators : a survey

Aabloo, Alvo; Belikov, Juri; Kaparin, Vadim; Kotta, Ülle IEEE Access 2021 / art. 9133056, p. 121059-121073

<https://doi.org/10.1109/ACCESS.2020.3007020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterisation and modelling of erosion wear of powder composite materials and coatings

Kulu, Priit; Veinthal, Renno; Käerdi, Helmo International journal of materials & product technology 2007 / 3/4, p. 425-447 : ill

Characterisation of exponentially graded materials by ultrasound

Braunbrück, Andres; Majak, Jüri ICCS17 : 17th International Conference on Composite Structures : Portugal 17-21 June 2013 : book of abstracts 2013 / p. 55

Characterisation of frost-retted hemp fibres for use as reinforcement in biocomposites = Külmligu kanepikiudude karakteriseerimine kasutamiseks sarrusena biokomposiitides

Alao, Percy Festus 2022 <https://doi.org/10.23658/taltech.31/2022> <https://digikogu.taltech.ee/et/Item/1cb2c061-7df8-4d8b-806a-fd53ea8820b5> https://www.ester.ee/record=b5500189*est

Characterisation of TiC-NiMo reinforced Ni-based hardfacing

Zikin, Arkadi; Badisch, Ewald; Hussainova, Irina; Tomastik, C.; Danninger, Herbert Surface & coatings technology 2013 / p. 36-44 : ill <https://www.sciencedirect.com/science/article/pii/S0257897213001825> <https://doi.org/10.1016/j.surfcoat.2013.02.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterisation of TiC-NiMo reinforced NiCrBSi hardfacing

Zikin, Arkadi; Hussainova, Irina; Badisch, Ewald; Danninger, Herbert Proceedings 20th IFHTSE : International Federation for Heat Treatment and Surface Engineering Congress : Beijing, China, October 23-25, 2012 2012 / p. 535-540

Characterization and modelling of erosion wear of powder composite materials and coatings

Veinthal, Renno 2005 https://www.ester.ee/record=b2097488*est

Characterization and prediction of abrasive wear of powder composite materials

Veinthal, Renno; Kulu, Priit; Pirso, Jüri; Käerdi, Helmo Proceedings of Nordtrib 2008 : 13th Nordic Symposium on Tribology : Tampere, Finland, 10-13 June, 2008 2008 / ? p

Characterization and prediction of abrasive wear of powder composite materials

Veinthal, Renno; Kulu, Priit; Pirso, Jüri; Käerdi, Helmo Wear 2009 / p. 2216-2222 : ill

Characterization of composite thermal spray powders

Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit EURO PM2005 : congress & exhibition : 2-5 October 2005, Prague, Czech Republic : proceedings. Volume 2 2005 / p. 87-91

Characterization of microstructure and mechanical properties of friction stir welded AlMg5-Al2O3 nanocomposites

Babu, N. Kishore; Kallip, Kaspar; Leparoux, Marc Materials science and engineering : A 2016 / p. 109-122 : ill

<http://dx.doi.org/10.1016/j.msea.2016.01.102>

Characterization of powdermetal matrix composites for erosion wear applications

Veinthal, Renno; Kulu, Priit; Pirso, Jüri; Käerdi, Helmo Extended abstracts of 2006 Powder Metallurgy World Congress : Busan, Korea, September 24-28. 2 2006 / p. 1056

Characterization of the structure and modelling of wear composite with multimodal reinforcement powder materials and coatings [Electronic resource]

Kulu, Priit; Veinthal, Renno Proceedings of XIIIth International Conference on Composites/Nano Engineering : ICCE-12 : Tenerife, Spain 2005 / ? p. [CD-ROM]

Characterization of the structure and properties of composite powder materials and coatings

Veinthal, Renno; Kulu, Priit; Käerdi, Helmo Materials science = Medžiagotyra 2005 / 4, p. 376-380 : ill

Characterization of WC-Co composite thermal spray powder and coating

Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit 15th International Baltic Conference "Engineering Materials & Tribology. Baltattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 52-53

Characterization of WC-Co composite thermal spray powders and coatings

Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 435-444 : ill

Characterization of WC-Co thermal spray coatings based on the composite powders

Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit Powder metallurgy progress : journal of science and technology of particle materials 2006 / p. 34-41 : ill

Circular production, designing, and mechanical testing of polypropylene-based reinforced composite materials : statistical analysis for potential automotive and nuclear applications

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Sergejev, Fjodor; Krasnou, Illia Polymers 2023 / art. 3410, 30 p. : ill <https://doi.org/10.3390/polym15163410> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Colloquium 582 : Short Fibre Reinforced Cementitious Composites and Ceramics : book of abstracts, March 20-22, 2017

2017 http://www.ester.ee/record=b4658990*est

Combustion synthesis and consolidation of Ni-W nanocomposite material

Zakaryan, Marieta; Aydinian, Sofiya; Kharatyan, Suren Ceramics in modern technologies 2019 / p. 67-74

<https://doi.org/10.29272/cmt.2018.0007>

Combustion synthesis of MoSi2 based composite and selective laser sintering thereof

Minasyan, Tatevik; Aghayan, Marina; Liu, Le; Aydinian, Sofiya; Kollo, Lauri; Hussainova, Irina; Rodriguez, Miguel Angel Journal of the European Ceramic Society 2018 / p. 3814-3821 : ill <https://doi.org/10.1016/j.jeurceramsoc.2018.04.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combustion synthesis of TiC-ZrC composite powder : role of mechanical activation

Hussainova, Irina; Manaseryan, L.; Khachatryan, H.; Hobosyan, M.; Kharatyan, Suren World PM2010 proceedings. Vol. 2, Sintering, Secondary and Finishing Operations, Full Density and Alternative Consolidation 2010 / p. 181-188

Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB₂ fabricated by selective laser melting and hot pressing

Xi, L. X.; Zhang, H.; Wang, P.; Li, H.C.; Prashanth, Konda Gokuldoss Ceramics international 2018 / p. 17635-17642 : ill <https://doi.org/10.1016/j.ceramint.2018.06.225> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative study of the VARTM, VAP and MTI vacuum infusion processes

Aruniit, Aare; Herranen, Henrik; Miller, Kristen Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 71-76 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.71> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Comparative study on electroless composite coatings of textured and untextured Al-substrates

Singh, Garima; Mohanty, Shalini; Kumar Singh, Rabesh; Rai Dixit, Amit; Kumar Sharma, Anuj Materials today: proceedings 2023 / p. 233-240 : ill <https://doi.org/10.1016/j.matpr.2022.12.079> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A compared study of esterified lignin for thermoplastic applications

Ho, Tran; Mohan, Mahendra Kothottil; Köster, Carmen; Järvik, Oliver; Kulp, Maria; Karpichev, Yevgen Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025 "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 83 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Comparing tungsten carbide based composites reinforced by alumina nanofibers or zirconia

Yung, Der-Liang; Dong, Minjie; Hussainova, Irina Proceedings of the PM13 International Conference on Powder Metallurgy and Particulate Materials 2013 / p. 24-35 : ill

Comparison of electrical conductivity of cement composite materials

Birzniece, Inga Melanija; Cizevska, Anna; Goljandin, Dmitri; Lusi, Vitalijs World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium - WMCAUS 2022 : Prague, Czech Republic, 5-9 September 2022 2023 / art. 080011 <https://doi.org/10.1063/5.0170574> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Comparison of laminate stiffness as measured by three experimental methods

Lasn, Kaspar; Echtermeyer, Andreas T.; Klauson, Aleksander; Chati, Farid; Decultot, Dominique Polymer testing 2015 / p. 143-152 : ill <https://doi.org/10.1016/j.polymertesting.2015.04.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of mechanical and antibacterial properties of TiO₂/Ag ceramics and Ti₆Al₄V-TiO₂/Ag composite materials using combined SLM-SPS techniques

Rahmani Ahranjani, Ramin; Rosenberg, Merilin; Ivask, Angela; Kollo, Lauri Metals 2019 / art. 874, 13 p. : ill <https://doi.org/10.3390/met9080874> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of the wear and frictional properties of Cu matrix composites prepared by pulsed electric current sintering

Ritasalo, Riina; Antonov, Maksim; Veinthal, Renno; Hannula, Simo-Pekka Proceedings of the Estonian Academy of Sciences 2014 / p. 62-74 : ill https://artiklid.einet.ee/record=b2665219*est <https://doi.org/10.3176/proc.2014.1.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Composite powders based on iron self-fluxing alloy and recycled cermet powders for thermal spray

Goljandin, Dmitri; Sarjas, Heikki; Kulu, Priit; Surženkov, Andrei; Mikli, Valdek; Käerdi, Helmo Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 40

Composite powders for coatings on the base of recovered hard metals

Kulu, Priit; Tümanok, Aleksei; Arensbürger, Daniil; Pihl, Toomas Reports and theses of International Conference of Welding Technologies, Equipment, Materials : MET-97 1997 / p. 135-143

Composite powders for thermal spray

Kulu, Priit; Zimakov, Sergei; Arensbürger, Daniil Proceedings of the 8th International Baltic Conference : Materials Engineering-99 : September 23-24, Kaunas, Lithuania 1999 / p. 156

Composite powders for thermal spray

Kulu, Priit; Zimakov, Sergei; Arensbürger, Daniil Medžiagotyra = Materials science 1999 / p. 22-26 : ill

Composites compaction by severe plastic deformation

Kommel, Lembit; Kollo, Lauri Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 29

Composites from flax fiber and LLDPE

Soiela, Mari; Viikna, Anti Baltic Polymer Symposium 2006 : September 20-22, 2006 : programme and proceedings 2006 / p. 6

Composites of low-density polyethylene and poly(lactic acid) with cellulose and its derivatives = Madaltiheda polüetüleen

ja polü(piimhappe) komposiidid tselluloosi ning selle derivaatidega
Šumigin, Dmitri 2014 https://www.ester.ee/record=b3078663*est

Compound carbide composites produced by diffusion bonding

Kübarsepp, Jakob; Klaasen, Heinrich; Laansoo, Andres EURO PM2001 : [European Congress and Exhibition on Powder Metallurgy] : October 22-24, 2001, Nice, France. Vol. 1 : proceedings 2001 / p. 158-163 : ill

Conjoined structures of carbon nanotubes and graphene nanoribbons

Krasnenko, Veera; Boltruško, Vadim; **Klopov, Mihhail**; Hižnjakov, Vladimir Physica scripta 2014 / 4 p.: ill <https://doi.org/10.1088/0031-8949/89/04/044008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A constitutive function for the heat flux in short-fiber-reinforced composites

Herrmann, Heiko Journal of non-equilibrium thermodynamics 2015 / p. 257-263 <https://doi.org/10.1515/jnet-2015-0005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Control of radial increment and winding density of composite cylindrical shells

Kutin, Aleksei; **Arjassov, Gennadi; Vu, Trieu Minh**; Musalimov, Victor; Moezzi, Reza; Cyrus, Jindrich MM science journal 2020 / p. 4149-4153 https://doi.org/10.17973/MMSJ.2020_11_2020058 [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Corrosion behavior of high velocity oxy-fuel sprayed composite Ni-/Fe-based self-fluxing alloy - cermet coatings

Sarjas, Heikki; **Surženkov, Andrei; Baroninš, Janis; Viljus, Mart; Traksmaa, Rainer; Kulu, Priit** Journal of mineral, metal and material engineering 2018 / p. 1-9 : ill <http://www.scientificarray.org/journal-of-mineral-metal-and-material-engineering-volume-4/>

Critical radius of zirconia inclusions in transformation toughening of ceramics

Filippov, Roman; Freidin, Alexander; **Hussainova, Irina**; Vilchevskaya, Elena Physical mesomechanics 2015 / p. 33-42 : ill <https://doi.org/10.1134/S1029959915010051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CuInS₂-Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells : preparation by an in situ formation route, performance and stability issues

Maiera, Eugen; Ratha, Thomas; Haas, Wernfried; Werzer, Oliver; Saf, Robert; Hofer, Ferdinand; Meissner, Dieter; **Volobujeva, Olga; Bereznev, Sergei; Mellikov, Enn**; Amenitsch, Heinz; Resel, Roland; Trimmel, Gregor Solar energy materials and solar cells 2011 / p. 1354-1361 : ill

Customization of CAD system for decision support of mould design process

Hermaste, Aigar; Sutt, Annes; Küttner, Rein Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 121-126 : ill

DC-conductivity testing combined with photometry for measuring fibre orientations in SFRC

Eik, Marika; Löhmus, Karl; Tigasson, Martin; Listak, Madis; Puttonen, Jari; **Herrmann, Heiko** Journal of materials science 2013 / p. 3745-3759 : ill <https://doi.org/10.1007/s10853-013-7174-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Decomposition method for solving optimal material orientation problems

Majak, Jüri; Pohlak, Meelis 15th International Conference on Composite Structures : Portugal, Porto 2009 / ? p

Deformation behavior of metallic lattice structures with symmetrical gradients of porosity manufactured by metal additive manufacturing

Jagadeesh, B.; Duraiselvam, Muthukannan; **Prashanth, Konda Gokuldoss** Vacuum 2023 / art. 111955 <https://doi.org/10.1016/j.vacuum.2023.111955> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Deformation mechanism studies by varying height to diameter ratio of Al-Mg and Al-Mg-C metal matrix composites

Sharma, Shubham; **Singh, Neera**; Kumar, Devendra; Gupta, Sumit; Chaudhary, Vijay; Gupta, Niraj; Gupta, Pallav Journal of Advanced Manufacturing Systems 2023 / p. 603-618 <https://doi.org/10.1142/S0219686723500270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Densification and characterization of spark plasma sintered ZrC-ZrO₂ composites

Hussainova, Irina; Voltšihhin, Nikolai; Cura, M. Erkin; Hannula, Simo-Pekka Materials science and engineering : A - structural materials: properties, microstructure and processing 2014 / p. 75-81 : ill <https://doi.org/10.1016/j.msea.2013.12.058> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and manufacturing of variable angle tow laminate

Haavajõe, Anti; Mikola, Madis; Pohlak, Meelis Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 59-64 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.59> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Design and technology of oxides-containing ceramic-based composites = Oksiide sisaldava komposiitkeraamika tehnoloogia

Voltšihin, Nikolai 2014 https://www.ester.ee/record=b4438763*est

Design and testing of new composite from recycled GFRP

Kers, Jaan; Majak, Jüri; Goljandin, Dmitri; Saarna, Mart; Gregor, Andre; Siinmaa, A.; Tall, Kaspar 14th European Conference on Composite Materials : 7-10 June 2010, Budapest, Hungary 2010 / [10] p

Design of an additively manufactured polymer composite electrical machine

Sarap, Martin; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Rjabtšikov, Viktor; Shams Ghahfarokhi, Payam; Vaimann, Toomas; Aman, Alexander; Kutia, Mykhailo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413>

Design of multifunctional laminated glass composite panel

Majak, Jüri; Pohlak, Meelis; Shvartsman, Boris; Õunapuu, Erko; Kirs, Maarjus ICCS19 : 19th International Conference on Composite Structures : Sheraton Porto Hotel & Spa, 5-8 September 2016 : proceedings 2016 / p. 140 <http://dx.doi.org/10.15651/978-88-748-8977-8>

Design of superhard c-BC2N-precipitates in B4C/Al-composites through SHS and heat treatment

Kommel, Lembit; Metsvahi, Rainer; Viljus, Mart; Kimmari, Eduard; Kolju, Karl; Traksmäa, Rainer Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 645-650 : ill

Design optimization of graphene laminates for maximum fundamental frequency

Majak, Jüri; Kirs, Maarjus; Eerme, Martin; Tungal, Ernst; Lepikult, Toomas Proceedings of the Estonian Academy of Sciences 2017 / p. 354-362 : ill <https://doi.org/10.3176/proc.2017.4.08> https://artiklid.elnet.ee/record=b2830810*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design optimization of smart composite structures with embedded devices = Integreeritud elektroonikakomponentidega targa komposiitmaterjali väljatöötamine

Herranen, Henrik 2014 https://www.ester.ee/record=b3092011*est

Determination of resistance to wear of particulate composite

Aruniit, Aare; Antonov, Maksim; Kers, Jaan; Krumme, Andres Engineering materials & tribology XXII 2014 / p. 188-191 <https://doi.org/10.4028/www.scientific.net/KEM.604.188> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Determination of the mechanical properties of carbide composites by spherical indentation

Sergejev, Fjodor; Petrov, Mihhail; Kübarsepp, Jakob Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 723-728 : ill

Development of equipment and mathematical model for manufacturing of steered fibre laminate = Seadmete ja matemaatilise mudeli arendamine muutuva kiuga laminaadi valmistamiseks

Haavajõe, Anti 2019 https://www.ester.ee/record=b5284222*est <https://digikogu.taltech.ee/et/Item/3328472d-4a53-4e56-a892-93453155327c>

Development of PEDOT-PSS-Ppy electromechanical actuators

Idla, Katrin; Inganäs, Olle; Strandberg, Marek Abstract at the SPIE's 9th Annual International Symposium on Smart Structures and Materials, San Diego, California, USA, 2002 2002 / p. (4695-63)S11 https://www.researchgate.net/publication/260133417_Development_of_PEDOT-PSS-Ppy_electromechanical_actuators

Development of silicon oxynitride nanocomposites with single-walled carbon nanotubes as protective coatings for solar cells = Üheseinaliste süsiniknanotorudega ränioksüniitridist nanokomposiitmaterjalide arendamine päikesepatareide kaitsekatteks

Shmagina, Elizaveta 2025 https://www.ester.ee/record=b5739646*est <https://digikogu.taltech.ee/et/Item/5b38d0d4-d585-496f-b18e-de06aae6a6da> <https://doi.org/10.23658/taltech.20/2025>

Development of solid lubricated composites for high-temperature tribological applications = Tahkmäärdega komposiitide väljatöötamine kõrgtemperatuurseteks triborakendusteks

Kumar, Rahul, 1993- 2022 <https://doi.org/10.23658/taltech.75/2022> <https://digikogu.taltech.ee/et/Item/b117812c-4248-4542-ba39-fcbfe5349f4e> https://www.ester.ee/record=b5528171*est

Development of sustainable polypropylene based composites = Polüpropeeni baasil jätkusuutlike komposiitide arendus

Hussain, Abrar 2023 <https://doi.org/10.23658/taltech.64/2023> <https://digikogu.taltech.ee/et/Item/ffead123-ec1c-4d27-baa6-ed82c6d527cc> https://www.ester.ee/record=b5645373*esthttps://www.ester.ee/record=b5645373*est

Development of Ti-eggshell composite for bio-implants applications = Ti-munakoore komposiidi väljatöötamine bioimplantaatide rakenduste jaoks

Shukla, Riddhi Hirenkumar 2025 https://www.ester.ee/record=b5730420*est <https://digikogu.taltech.ee/et/Item/e2ae3e2f-5df1-47bb-ac63-a3f64e703685> <https://doi.org/10.23658/taltech.10/2025>

Directly electrospun electrodes for electrical double-layer capacitors from carbide-derived carbon

Malmberg, Siret; Arulepp, Mati; Savest, Natalja; Tarasova, Elvira; Vassiljeva, Viktoria; Krasnou, Illia; Käärrik, Maike; Mikli, Valdek; Krumme, Andres Journal of electrostatics 2020 / art. 103396, 7 p. : ill <https://doi.org/10.1016/j.elstat.2019.103396> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A distributed model of ionomeric polymer metal composite

Punning, Andres; Johanson, Urmas; Anton, Mart; Aabloo, Alvo; Kruusmaa, Maarja Journal of intelligent material systems and structures 2009 / p. 1711-1724 : ill <https://doi.org/10.1177/1045389X0933717>

Dry reciprocating sliding wear behaviour of alumina–silicon carbide nanocomposite fabricated by ceramic injection molding

Smirnov, Anton; Bartolome, Jose F.; Moya, J.S.; Kern, F.; Gadow, R. Journal of the European Ceramic Society 2011 / p. 469-474 : ill

Dry sliding friction of cubic boron nitride based composite synthesized by SHS [Electronic resource]

Kimmari, Eduard; Kommel, Lembit Proceedings of 12th Nordic Symposium in Tribology : NORDTRIB 2006 : Helsingor, Denmark, 7-9 June 2006 2006 / [CD-ROM]

Durability of wood plastic composites : influence of weathering on the mechanical properties

Kallakas, Heikko; Poltimäe, Triinu; Süld, Tiia-Maaja; Kers, Jaan Proceedings of The Northern European Network for Wood Science and Engineering : Edinburgh, Scotland, 13-14 October 2014 2014 / p. 229

Dynamical variation of the impedance of IPMC

Kruusamäe, Karl; Punning, Andres; Kruusmaa, Maarja; Aabloo, Alvo Proceedings of SPIE 2009 / Electroactive Polymer Actuators and Devices (EAPAD) 2009, p. 72870V-1 - 72870V-9 : ill https://www.researchgate.net/publication/236115865_Dynamical_variation_of_the_impedances_of_IPMC

Effect of accelerated weathering on the mechanical properties of wood-plastic composites

Kallakas, Heikko; Poltimäe, Triinu; Süld, Tiia-Maaja; Kers, Jaan Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 75

Effect of aspen face veneer thickness on the fire performance of post-manufacture fire-retardant treated birch blywood

Alao, Percy Festus; Rohumaa, Anti; Dembovski, Karl Harold; Ruponen, Jussi; Kallakas, Heikko; Kers, Jaan Proceedings of the 11th European Conference on Wood Modification 2025 / p. 165-172 https://doi.org/10.1007/978-3-031-99418-0_21

Effect of atomic layer deposited aluminium oxide on mechanical properties of porous silicon carbide

Jõgiaas, Taivo; Kollo, Lauri; Kozlova, Jekaterina; Tamm, Aile; Hussainova, Irina; Kukli, Kaupo Ceramics international 2015 / p. 7519-7528 : ill <https://doi.org/10.1016/j.ceramint.2015.02.074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of atomic oxygen irradiation on the structural and tribological properties of the MoS₂/Al₂O₃/PI composites

Zhao, Gai; Wang, Qihua; Hussainova, Irina; Ding, Qingjun Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 239-243 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.239> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Effect of attrition milling on grain size and properties of composites

Kommel, Lembit; Kimmari, Eduard; Traksmäa, Rainer Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 25

Effect of basalt addition on tribological performance of FeCrSiB HVOF coatings

Antonov, Maksim; Surženkov, Andrei; Hussainova, Irina; Goljandin, Dmitri; Mikli, Valdek Estonian journal of engineering 2012 / p. 211-220 : ill https://artiklid.elnet.ee/record=b2527729*est

Effect of basalt reinforcement type and content on the abrasive wear behaviour of polymer composites

Antonov, Maksim; Kers, Jaan; Liibert, Laura; Shuliak, Volodymyr; Smirnov, Anton; Bartolome, Jose F. Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 181-188 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.181> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Effect of birch false heartwood on the physical and mechanical properties of wood-plastic composites [Online resource]

Kallakas, Heikko; Martin, Mihkel; Ayansola, Gbenga; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference

Effect of carbide phase and binder chemical composition on surface fatigue of carbide composites [Electronic resource]
Petrov, Mihail; Kübarsepp, Jakob; Sergejev, Fjodor; Viljus, Mart Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [6] p. : ill. [USB]

Effect of cBN content and additives on sliding and surface fatigue wear of spark plasma sintered Al₂O₃-cBN composites
Kumar, Rahul, 1993-; Antonov, Maksim; Klimczyk, Piotr; Mikli, Valdek; Gomon, Dmitri Wear 2022 / art. 204250
<https://doi.org/10.1016/j.wear.2022.204250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of ceramic reinforcement on the microstructural, mechanical and tribological behavior of Al-Cu alloy metal matrix composite
Aktar Zahid Sohag, Md; Gupta, Pallav; Kondal, Neha; Kumar, Devendra; Singh, Neera; Jamwal, Anbesh Materials today: proceedings 2020 / p. 1407-1411 <https://doi.org/10.1016/j.matpr.2019.08.179> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Effect of chemical modification of wood flour on the mechanical properties of wood-plastic composites
Kallakas, Heikko; Shamim, M. A.; Olutubo, T.; Poltimäe, Triinu; Süld, Tiia-Maaja; Krumme, Andres; Kers, Jaan Agronomy research 2015 / p. 639-653 : ill https://agronomy.emu.ee/vol133/13_3_2_B5.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

Effect of chemical modification of wood flour on the mechanical properties of wood-plastic composites [Electronic resource]
Kallakas, Heikko; Shamim, M. A.; Olutubo, T.; Poltimäe, Triinu; Süld, Tiia-Maaja; Krumme, Andres; Kers, Jaan 6th International Conference Biosystems Engineering 2015 : 7-8 May 2015, Tartu, Estonia : book of abstracts 2015 / p. 94. [CD-ROM]
http://bse.emu.ee/BSE2015_Book%20of%20ABSTRACTS_ISBN.pdf

Effect of composite layers based on dyes with different type of conductivity on photovoltaic properties of CIS films
Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; Bereznev, Sergei; Kois, Julia Molecular crystals and liquid crystals 2007 / p. 123-133 <https://www.tandfonline.com/doi/full/10.1080/15421400701221245>

Effect of composite layers based on dyes with different type of conductivity on photovoltaic properties of CIS films
Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; Bereznev, Sergei ICEPOM-6 conference abstracts : 6th International Conference on Electronic Processes in Organic Materials : Gurzuf, Crimea, Ukraine, September 25-29, 2006 2006 / p. 54-55
https://www.researchgate.net/publication/233173021_Effect_of_Composite_Layers_Based_on_Dyes_with_Different_Types_of_Conductivity_on_Photovoltaic_Properties_of_CIS_Films

Effect of fly-ash cenospheres on properties of clay-ceramic syntactic foams
Rugele, Kristine; Lehmus, Dirk; Hussainova, Irina; Peculevica, Julite; Lisnanskis, Marks; Shishkin, Andrei Materials 2017 / art. 828, p. 1-17 : ill <https://doi.org/10.3390/ma10070828> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of grain growth inhibitors VC/Cr₃C₂ on WC-ZrO₂-Ni composite mechanics
Yung, Der-Liang; Dong, Minjie; Hussainova, Irina Engineering materials & tribology XXII 2014 / p. 106-109
<https://doi.org/10.4028/www.scientific.net/KEM.604.106> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Effect of HBN on wear of AlCrN-coated spark plasma - sintered TiB₂/Ti composites at temperatures up to 900°C
Luszcz, Maciej; Michalczewski, Remigiusz; Kalbarczyk, Marek; Osuch-Słomka, Edyta; Molenda, Jarosław; Liu, Le; Antonov, Maksim; Hussainova, Irina Quarterly tribologia 2022 / p. 43-55 <https://doi.org/10.5604/01.3001.0015.8756>

Effect of heat treatment on the phase transformation and magnetic properties of BPSCCO/LPMO composites
Staneva, Anna; Blagoev, Blagoy; Mikli, Valdek Journal of alloys and compounds 2014 / p. 223-228 : ill
<https://doi.org/10.1016/j.jallcom.2013.07.185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of hemp fiber surface treatment on the moisture/water resistance and reaction to fire of reinforced PLA composites
Alao, Percy Festus; Marrot, Laetitia; Kallakas, Heikko; Just, Alar; Poltimäe, Triinu; Kers, Jaan Materials 2021 / art. 4332, 17 p. : ill <https://doi.org/10.3390/ma14154332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of hemp fibre length on the properties of polypropylene composites
Alao, Percy Festus; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan Agronomy research 2019 / p. 1517-1531 : ill
<https://doi.org/10.15159/AR.19.146> [Journal metrics at Scopus](#) [Article at Scopus](#)

Effect of hemp fibre length on the properties of polypropylene composites [Online resource]
Alao, Percy Festus; Kallakas, Heikko; Kers, Jaan Tartu Ülikooli ASTRA projekt PER ASPERA : funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebruar, 2019, Tartu : teesid] 2019 / 1 p.: ill <http://fmtdk.ut.ee/teesid-2019/>

Effect of laser surface texturing and fabrication methods on tribological properties of Ti6Al4V/HAp biocomposites

Sadlik, Julia; Kosinska, Edyta; Tomala, Agnieszka; Bankosz, Magdalena; Polajnar, Marko; **Kumar, Rahul**; Kalin, Mitjan; **Kravanja, Gaia**; Hribar, Luka; **Hussainova, Irina** Materials 2025 / art.2468 <https://doi.org/10.3390/ma18112468>

Effect of milling time on dual-nanoparticulate-reinforced aluminum alloy matrix composite materials

Kwon, Hansang; **Saarna, Mart**; Yoon, Songhak; Weidenkaff, Anke; Leparoux, Marc Materials science and engineering : A 2014 / p. 338-345 <https://doi.org/10.1016/j.msea.2013.10.046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of new superhard phases formation on properties of composite processed by SHS

Kommel, Lembit; Tamm, Toomas; **Metsvahi, Raido** Engineering materials and tribology 2013 / p. 137-142

Effect of NiCoFeAlTi high entropy intermetallic reinforcement particle size on the microstructure and mechanical properties of CoCrFeMnNi high-entropy alloy composites fabricated by selective laser melting

Zhang, Zhiyu; Ma, Pan; Fang, Yacheng; Yang, Zhilu; Zhang, Nan; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of alloys and compounds 2023 / art. 169417 <https://doi.org/10.1016/j.jallcom.2023.169417> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of niobium on in situ synthesis of titanium carbide in composite hardfacings

Yöyler, Sibel; **Surzhenkov, Andrei**; **Viljus, Mart**; **Traskmaa, Rainer**; **Juhani, Kristjan** Materials Engineering and Modern Manufacturing, MeMM 2023 : Selected peer-reviewed extended articles based on abstracts presented at the 30th International Baltic Conference "Materials Engineering and Modern Manufacturing 2023", MeMM 2023 Materials science forum 2023 / p. 55-60 <https://doi.org/10.4028/p-A5WzJl>

The effect of niobium on the microstructure evolution of ferritic stainless steel matrix cermets

Kolnes, Märt; **Juhani, Kristjan**; **Kübarsepp, Jakob**; **Viljus, Mart** Modern materials and manufacturing 2023 2024 / art. 040011 <https://doi.org/10.1063/5.0190158> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Effect of oxidation on abrasive wear behaviour of titanium carbide based composites in silica medium

Antonov, Maksim; **Hussainova, Irina**; **Pirso, Jüri**; **Juhani, Kristjan**; **Viljus, Mart** Estonian journal of engineering 2010 / 4, p. 264-272 : ill

Effect of precipitation heat treatment on a mechanically alloyed Al-based composite reinforced with metallic glassy powder

Deng, Guiying; Wang, Zhi; Hu, Yuan; Zhao, Qizhong; Zhang, Weiwen; Yang, Chao; Li, Liejun; **Prashanth, Konda Gokuldoss**; Suryanarayana, Challapalli Advanced engineering materials 2024 / 10 p <https://doi.org/10.1002/adem.202401075>

The effect of pressing parameters on the properties of nonwoven composites

Rahman, Md Arifur; **Plamus, Tiia**; **Rahman, Md Toufiqur** Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025 "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 70 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Effect of residual stresses on the surface fatigue of TiC-based carbide composites

Sergejev, Fjodor; **Klaasen, Heinrich**; **Kübarsepp, Jakob** Procedia engineering 2011 / p. 3152-3161 : ill

Effect of sintering method on surface fatigue of carbide composites

Petrov, Mihail; **Kübarsepp, Jakob**; **Sergejev, Fjodor**; **Viljus, Mart**; **Tarraste, Marek** Engineering materials and tribology XXV 2017 / p. 368-372 : ill <https://doi.org/10.4028/www.scientific.net/KEM.721.368> [Journal metrics at Scopus](#) [Article at Scopus](#)

Effect of substrate plate heating on the microstructure and properties of selective laser melted Al-20Si-5Fe-3Cu-1Mg alloy

Ma, Pan; Ji, Pengcheng; Jia, Yandong; Shi, Xuerong; Yu, Zhishui; **Prashanth, Konda Gokuldoss** Materials 2021 / art. 330 <https://doi.org/10.3390/ma14020330> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of temperature and sliding speed on friction and wear of Si3N4, Al2O3, and ZrO2 balls tested against AlCrN PVD coating

Antonov, Maksim; **Afshari, Hossein**; **Baroninš, Janis**; **Adoberg, Eron**; **Raadik, Taavi**; **Hussainova, Irina** Tribology international 2018 / p. 500-514 : ill <https://doi.org/10.1016/j.triboint.2017.05.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of thermo-elastic residual stresses on erosive performance of cermets with core-rim structured ceramic grains

Hussainova, Irina; Kolesnikova, Anna; Hussainov, Medhat; Romanov, Alexey Wear 2009 / p. 177-185 : ill <https://www.sciencedirect.com/science/article/pii/S0043164809001446>

Effect of TiB2 addition on the mechanical and biological response of spark plasma sintered Ti6Al7Nb matrix composites

Singh, Neera; Ummethala, Raghunandan; Surreddi, Kumar Babu; Jayaraj, Jayamani; **Sokkalingam, Rathinavelu**; Rajput, Monika; Chatterjee, Kaushik; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 166502 <https://doi.org/10.1016/j.jallcom.2022.166502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of TiB₂ particles on microstructure and crystallographic texture of Al-12Si fabricated by selective laser melting

Xi, L.; Wang, P.; **Prashanth, Konda Gokuldoss**; Li, H. Journal of alloys and compounds 2019 / p. 551-556 : ill
<https://doi.org/10.1016/j.jallcom.2019.01.327> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of WC grain size and content on low stress abrasive wear of manual arc welded hardfacings with low-carbon or stainless steel matrix

Jankauskas, Vytenis; **Antonov, Maksim**; Varnauskas, Valentinas; Skirkus, Remigijus; **Goljandin, Dmitri** Wear 2015 / p. 378-390 : ill
<https://doi.org/10.1016/j.wear.2015.02.063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of wood flour fraction size on the properties of wood-plastic composites

Kängsepp, Kärt; **Poltimäe, Triinu**; Liimand, K.; **Kallakas, Heikko**; Süld, Tiia-Maaja; **Repeshova, Irina**; **Goljandin, Dmitri**; **Kers, Jaan** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 366-371

Effective electrical conductivity of carbon nanotube–epoxy nanocomposites

Kulakov, Vladimir; Aniskevich, Andrey; Ivanov, Sergey; **Poltimäe, Triinu**; Starkova, Olesja Journal of composite materials 2017 / p. 2979-2988 : ill <https://doi.org/10.1177/0021998316678304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EKA disainerid kudusid uuringu raames teksapükstest mütsid

postimees.ee 2023 [EKA disainerid kudusid uuringu raames teksapükstest mütsid](#)

Elaboration of method for preparation of IVB group metal carbides nanocomposites

Umalas, Madis; Reedo, Valter; Lõhmus, Ants; **Hussainova, Irina** Functional Materials & Nanotechnologies : Riga, 5-8 April 2011 2011 / [1] p

Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene–acrylonitrile copolymer and carbon nanotube composite fibres

Mooste, Marek; Kibena-Põldsepp, Elo; **Vassiljeva, Viktoria**; **Uibu, Mai**; **Krumme, Andres** Journal of materials science 2019 / p. 11618–11634 : ill <https://doi.org/10.1007/s10853-019-03725-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electroconductive alumina-TiC-Ni nanocomposites obtained by spark plasma sintering

Rodriguez-Suarez, T.; Bartolome, Jose F.; **Smirnov, Anton**; Lopez-Esteban, S.; Diaz, L.A.; Torrecillas, R.; Moya, J.S. Ceramics international 2011 / p. 1631-1636 : ill

Electroconductive oxide ceramics with graphene-encapsulated fillers

Hussainova, Irina; **Drozdova, Maria**; **Ivanov, Roman**; Kale, Sudhir S.; Jasiuk, Iwona Proceedings of the 42nd international conference on advanced ceramics and composites 2019 / p. 251–258 <https://doi.org/10.1002/9781119543343.ch25> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Electroconductive oxide ceramics with hybrid graphenated nanofibers = Elektri juhtiva oksiid-graafenkiudkeraamika tehnoloogia ja püsivus

Drozdova, Maria 2017 <https://digi.lib.ttu.ee/i/?9119> http://www.ester.ee/record=b4748247*est

Electrode reactions in Cu-Pt coated Nafion[r] actuators

Johanson, Urmas; Mäeorg, Uno; Brandell, Daniel; Punning, Andres; Torop, Janno; **Kruusmaa, Maarja**; Aabloo, Alvo Artificial Muscle Actuators using Electroactive Polymers 2009 / p. 75-80 https://www.researchgate.net/publication/236115789_Electrode_Reactions_in_Cu-Pt_Coated_NafionR_Actuators

Electro-deposited nano-Ni/reduced graphene oxide composite film of corrugated surface for high voltammetric sensitivity

Alinejadian, Navid; Kazemi, Sayed Habib; Nasirpour, Farzad; Odneval, Inger Charlotta Materials chemistry and physics 2023 / art. 127288, 8 p. : ill <https://doi.org/10.1016/j.matchemphys.2022.127288> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electroless Ni-P-MoS₂-Al₂O₃ composite coating with hard and self-lubricating properties

Mohanty, Shalini; Jamal, Naghma; Das, Alok Kumar; **Prashanth, Konda Gokuldoss** Materials 2022 / art. 6806 <https://doi.org/10.3390/ma15196806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Embedded electronics influence on the strength of carbon fiber laminate

Herranen, Henrik; **Kers, Jaan**; **Preden, Jürjo-Sören**; **Talalaev, Robert**; **Eerme, Martin**; **Majak, Jüri**; **Lend, Henri**; **Allikas, Georg** Advances in applied materials and electronics engineering III 2014 / p. 239-243
<https://doi.org/10.4028/www.scientific.net/AMR.905.239> [Article at Scopus](#)

Energy performance of ETICS integrated with a flexible photovoltaic panel

Heim, Dariusz; Wieprzowicz, Anna; Knera, Dominika; **Ilomets, Simo**; **Kalamees, Targo**; Spitalsky, Zdeno Building simulation

Enhanced Crack Detection in Composite Plates : Integrating Haar Wavelet Transform with Convolutional Neural Networks

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo 6th International Conference on Multidisciplinary Design Optimization and Applications (MDOA 2024) 2025 / art. 01008 https://www.e3s-conferences.org/articles/e3sconf/abs/2025/31/e3sconf_mdoa2025_01008/e3sconf_mdoa2025_01008.html
<https://doi.org/10.1051/e3sconf/202563101008>

Environmentally assisted abrasive erosive wear of metals matrix composites [Electronic resource]

Veinthal, Renno; Kulu, Priit; Aulik, Allan; Siitonen, P. Conference on PM and Advanced Materials and Materials Technology Innovation : 27.-28.02.2005, Tampere, Finland 2005 / ? p. [CD-ROM]

Erosion of Cr₃C₂-based cermets at room and elevated temperatures

Antonov, Maksim; Hussainova, Irina Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 137-140 : ill

Erosions und Bruchfestigkeit von TIC-stahl Verbundwerkstoffen

Valdma, Leo; Kübarsepp, Jakob; Annuka, Harri IX Internationale Pulvermetallurgische Tagung in der DDR : Sintern, Phänomene, Technologien und Werkstoffe, Dresden, 23. bis 25. 10. 1989 1989 / s. 209

Erosive wear of advanced composites based on WC

Hussainova, Irina; Antonov, Maksim; Zikin, Arkadi Tribology international 2012 / p. 254-260 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0301679X11001630>

Erosive wear of spark plasma sintered Al₂O₃ - cBN ceramic composites

Kariminejad, Arash; Kumar, Rahul; Antonov, Maksim; Hussainova, Irina; Klimczyk, Piotr Diamond and Related Materials 2025 / art. 112328 <https://doi.org/10.1016/j.diamond.2025.112328>

Erosive wear resistance of nature-inspired flexible materials

Kumar, Rahul, 1993-; Antonov, Maksim; Holovenko, Yaroslav; Surženkov, Andrei Tribology letters 2020 / art. 51, 8 p. : ill
<https://doi.org/10.1007/s11249-020-01296-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of deformation methods of Cu-Al₂O₃ systems with quality factor

Besterci, Michal; Sülleiova, Katarina; Kulu, Priit Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 4, p. 246-251 : ill https://artiklid.elnet.ee/record=b1014287*est

Evaluation of elastic constants in composite laminates with guided wave tomography [Online resource]

Ratassepp, Madis; Rao, Jing; Yu, X.; Fan, Zheng 12th European Conference on Non-destructive Testing : proceedings 2018 / 7 p. : ill <http://cdn.ecndt2018.com/wp-content/uploads/2018/05/ecndt-0597-2018-File001.pdf> <http://www.ecndt2018.com/programme/list-of-authors/>

Evaluation of stiffness and damage of laminar composites = Komposiitlaminaatide jäikuse ja kahjustuste hindamine

Lasn, Kaspar 2015 https://www.ester.ee/record=b4484893*est

Evolution of microstructure and mechanical properties of LM25–HEA composite processed through stir casting with a bottom pouring system

Chinababu, Mekala; Krishna, Nandivelegu Naga; Sivaprasad, Katakam; Prashanth, Konda Gokuldoss; Bhaskara, Eluri Materials 2022 / art. 230 <https://doi.org/10.3390/ma15010230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Exothermically synthesized B₄C-Al composites for dry sliding = Eksotermiliselt sünteesitud B₄C-Al komposiidid tööks liugehõõrdumise tingimustes

Kimmari, Eduard 2008 https://www.ester.ee/record=b2413238*est

Experimental determination of elastic constants of an orthotropic composite plate by using Lamb waves

Lasn, Kaspar; Klauson, Aleksander; Chati, Farid; Decultot, Dominique Mechanics of composite materials 2011 / p. 435-446 : ill

Experimental identification of elastic constants of an orthotropic composite plate

Lasn, Kaspar; Klauson, Aleksander; Chati, Farid; Decultot, Dominique Proceedings of 16th International Conference on Composite Structures (ICCS16), Porto, June 28-30, 2011 2011 / [2] p

Experimental mechanics analysis of recycled polypropylene-cotton composites for commercial applications

Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Abbas, Muhammad Mujtaba; Krasnou, Illia Advanced industrial and engineering polymer research 2023 / p. 226-238 : ill <https://doi.org/10.1016/j.aiepr.2022.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental study of steered fibre composite production

Haavajõe, Anti; Mikola, Madis; Osali, Hadi; Pohlak, Meelis; Herranen, Henrik Proceedings of the Estonian Academy of Sciences 2017 / p. 295-299 : ill <https://doi.org/10.3176/proc.2017.3.09> http://www.ester.ee/record=b2355998*est
https://artiklid.elnet.ee/record=b2824306*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Exploring microstructural properties, phase transformations, and wettability in high-chromium content iron-bonded Ti(C,N)-based cermet

Pampori, Tabeen Halawat; Kolnes, Märt; Juhani, Kristjan; Tarraste, Marek; Maurya, Himanshu Singh; Kübarsepp, Jakob Journal of the Japan Society of Powder and Powder Metallurgy 2025 / p. S1533-S1540 <https://doi.org/10.2497/jjspm.16P-T14-06>

Fabrication of alumina nanocomposites reinforced by a novel type of alumina nanofiber and graphene coated alumina nanofiber

Drozdova, Maria; Ivanov, Roman; Aghayan, Marina; Hussainova, Irina; Dong, Minjie; Rodriguez, Miguel Angel Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 337-341 : ill

Fabrication of Cu-Mo composites combining SHS and SLS technologies : poster presentation

Aydinyan, Sofiya; Minasyan, Tatevik; Kirakosyan, Hasmik; Aghayan, Marina; Hussainova, Irina; Kharatyan, Suren ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 48 <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites

Li, F. X.; Chen, P.; Chen, Z.; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2019 / p. 939-945 : ill
<https://doi.org/10.1016/j.jallcom.2019.07.277> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fatigue mechanics of carbide composites

Sergejev, Fjodor; Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina International journal of materials & product technology 2011 / p. 140-163 : ill

Fatigue performance of carbide composites

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina; Sergejev, Fjodor EURO PM2005 : congress & exhibition : 2-5 October 2005, Prague, Czech Republic : proceedings. Volume 1 2005 / p. 323-328 : ill

Fatigue strength prediction of carbide composites by considering pores to be equivalent to small defects : effect of hot isostatic pressing

Sergejev, Fjodor; Preis, Irina; Kübarsepp, Jakob Book of abstracts : International Symposium on Fatigue Design and Material Defects : Trondheim, Norway, 23-25 May 2011 2011 / p. 41-42

Feedback control of a coupled IPMC (Ionic Polymer-Metal Composite) sensor-actuator

Hunt, Andres; Tan, Xiaobo; Chen, Zheng; Kruusmaa, Maarja Proceedings of ASME Dynamic Systems Control Conference : California, USA, 12-14.10.2009 2009 / ? p <https://asmedigitalcollection.asme.org/DSCC/proceedings/DSCC2009/48920/485/346423>

Fiber-reinforced plywood: Increased performance with less raw material

Saal, Kristjan; Kallakas, Heikko; Tuhkanen, Eero; Just, Alar; Rohumaa, Anti; Kers, Jaan; Kalamees, Targo; Lõhmus, Rünno Materials 2024 / art. 3218 <https://doi.org/10.3390/ma17133218> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Foreign object induced fiber undulation influence on mechanical properties of composite laminate

Herranen, Henrik; Lend, Henri; Kuusik, Alar; Czichon, Steffen; Kers, Jaan; Piirlaid, Marko International Conference on Composite Materials 2013 (ICCM-19) : Montreal, Quebec, Canada, 28 July-2 August 2013 : [proceedings] 2013 / p. 837-844

Formation of microstructure of spray fused powder coatings

Pihl, Toomas; Kulu, Priit Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 201-204 : ill

Formation of the nanomeasures refractory compounds in the B4C based composites and their influence on wear resistance

Kommel, Lembit; Kimmari, Eduard Abstracts of the 12th Joint Nordic Conference on Powder Technology : Tampere, Finland, 2003 2003 / p. 40

Forming ability of the WC-based ceramic metal composites with different Fe-based binders by unique laser beam modulation

Maurya, Himanshu Singh; Juhani, Kristjan; Sergejev, Fjodor; Kumar Yadav, Mayank; Hussain, Abrar; Prashanth, Konda Gokuldoss Next Materials 2025 / art. 100524 <https://doi.org/10.1016/j.nxmate.2025.100524>

Fracture mechanism of dispersion-strengthened Cu-Al2O3 nanosystem

Besterci, Michal; Kulu, Priit Acta metallurgica Slovaca 2012 / p. 76-81 : ill
https://www.researchgate.net/publication/289140286_Fracture_mechanism_of_dispersion-strengthened_Cu-Al2O3_nanosystem

Free vibration analysis of a functionally graded material beam : evaluation of the Haar wavelet method

Kirs, Maarjus; Karjust, Kristo; Aziz, Imran; Õunapuu, Erko; Tungel, Ernst Proceedings of the Estonian Academy of Sciences 2018 / p. 1-9 : ill <https://doi.org/10.3176/proc.2017.4.01> http://www.ester.ee/record=b2355998*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Friction and wear of fiber reinforced polyimide composites

Zhao, Gai; Hussainova, Irina; Antonov, Maksim; Wang, Qihua; Wang, Tingmei Wear 2013 / p. 122-129 : ill <https://doi.org/10.1016/j.wear.2012.12.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Friction and wear of fiber reinforced polyimide composites

Zhao, Gai; Hussainova, Irina; Antonov, Maksim; Wang, Qihua; Wang, Tingmei; **Veinthal, Renno** 19th International Conference on Wear of Materials : Portland, Oregon, USA, 14-18 April 2013 : conference abstracts 2013 / [p. 92]

Functionalization of alumina nanofibers with metal oxides = Alumiiniumoksiidnanokiudude funktsionaliseerimine metalloksiididega

Aghayan, Marina 2016 http://www.ester.ee/record=b4560629*est

Functionally gradient Ti6Al4V-TiB composite produced by spark plasma sintering

Liu, Le; Ivanov, Roman; Kumar, Rahul, 1993-; Minasyan, Tatevik; Antonov, Maksim; Hussainova, Irina IOP conference series : materials science and engineering 2021 / art. 012004, 6 p.: ill <https://doi.org/10.1088/1757-899X/1140/1/012004>

The galvanostatic co-deposition of 3D-grown Ni-rGO nanocomposite : redox enhancement through reduction, texture, and morphology : oral presentation

Alinejadian, Navid; Nasirpour, Farzad Graphene Summit 2021 : Global Virtual Summit on Carbon, Graphene, 0D, 1D, and 2D materials, July 22-23, 2021, Beaverton, Oregon, United States of America : online 2021 / p. 2 <https://re.public.polimi.it/retrieve/handle/11311/1180988/644510/Global%20virtual%20summit%20on%20Carbon%2C%20graphene%20...%20-%2022-23.07.2021%20-%20Program.pdf>

Graphene covered alumina nanofibers as toughening agent in alumina ceramics

Hussainova, Irina; Drozdova, Maria; Aghayan, Marina; Ivanov, Roman; Perez-Coll, Domingo 13th International Ceramics Congress. Part B 2014 / p. 49-53

Graphene-encapsulated aluminium oxide nanofibers as a novel type of nanofillers for electroconductive ceramics

Ivanov, Roman; Hussainova, Irina; Aghayan, Marina; Drozdova, Maria; Perez-Coll, Domingo; Rodriguez, Miguel Angel; Rubio-Marcos, Fernando Journal of the European Ceramic Society 2015 / p. 4017-4021 : ill <https://doi.org/10.1016/j.jeurceramsoc.2015.06.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hardness of hot consolidated Al-SiC nanocomposites from planetary milled powders

Kollo, Lauri; Leparoux, Marc; Bradbury, Christopher R.; **Kommel, Lembit;** Carreno-Morelli, Efrain; Rodriguez-Arbaizar, M. World PM2010 proceedings. Vol. 1, Powder Manufacturing and Processing, Miniaturization and Nanotechnology, Powder Pressing 2010 / p. 341-346 https://www.researchgate.net/publication/272160715_Hardness_of_Hot_Consolidates_Al-SiC_Nanocomposites_from_Planetary_Milled_Powders

Hardness of multi wall carbon nanotubes reinforced aluminium matrix composites

Bradbury, Christopher R.; **Gomon, Jaana-Kateriina; Kollo, Lauri;** Kwon, Hansang; Leparoux, Marc Journal of alloys and compounds 2014 / p. 362-367 : ill <https://doi.org/10.1016/j.jallcom.2013.09.142> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hierarchically structured functional ceramic composites with graphene augmented nanofibers = Hierarhiliselt struktureeritud funktsionaalsed keraamilised komposiidid grafeenlisandiga nanokiududega

Saffarshamshirgar, Ali 2021 https://www.ester.ee/record=b5453046*est <https://digikogu.taltech.ee/et/Item/13881820-10e9-4116-bf2c-440a4c2f7b9b> <https://doi.org/10.23658/taltech.42/2021>

High energy milling of WC-FeCr cemented carbide

Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 136-141 : ill <https://www.scientific.net/KEM.799.136> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.136> [Conference proceeding at Scopus](#) [Article at Scopus](#)

High pressure high temperature consolidation of ZrC based ceramic composites

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Lei; Cygan, Slawomir; **Hussainova, Irina** [2018 World Congress on Powder Metallurgy (WORLDPM2018), Beijing, China, 16-18 September 2018 2018 / p. [515-518] : [USB]

High pressure torsion induced lowering of Young's modulus in high strength TNZT alloy for bio-implant applications

Maity, Tapabrata; Balci, Özge; Gammer, C.; Ivanov, E.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Journal of the mechanical

behavior of biomedical materials 2020 / art. 103839, 10 p. : ill <https://doi.org/10.1016/j.jmbbm.2020.103839> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High strength ductile aluminium matrix composite = Kõrgtugev ja plastne alumiiniumkomposiitmaterjal

Kallip, Kaspar 2017 <https://digi.lib.ttu.ee/i/?9114> https://www.eester.ee/record=b4746456*est

High temperature sliding wear of NiAl-based coatings reinforced by borides

Umanskyi, Oleksandr; Poliarus, Olena; Ukrainets Maksym; **Antonov, Maksim; Hussainova, Irina** Medziagotyra 2016 / p. 49 - 53
<https://doi.org/10.5755/j01.ms.22.1.8093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High temperature tribological performance of adaptive hard nanocomposite coatings deposited on a WC-Co substrate

Alamgir, Asad; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Sondor, J.; Podgurski, Vitali GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 12 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Highlight of photocurrent generation in garbon-based nanohybrids combined with HfO₂ nanoparticles

Rauwel, Protima; Galeckas, Augustinas; Ducroquet, Frederiquet; **Rauwel, Erwan** 5th International Conference on Competitive Materials and Technology Processes : Miskolc-Lillafüred, Hungary, October 8-12, 2018 : book of abstracts 2018 / p. 166
https://www.ic-cmtp5.eu/doc/book_of_abstract_iccmtp5.pdf

Hot and cold of pressing effect on ECAP-parallel channel composite based on Al/ANF material

Pramono, Agus; Kommel, Lembit; Kollo, Lauri; Veinthal, Renno Advanced materials research 2015 / p. 343-347
<http://dx.doi.org/10.4028/www.scientific.net/AMR.1123.343>

Hot and cold regions during accumulative roll bonding of Al/Al₂O₃ nanofibre composites

Pramono, Agus; Kollo, Lauri; Veinthal, Renno Proceedings of the Estonian Academy of Sciences 2016 / p. 132-137 : ill
https://artiklid.elnet.ee/record=b2768216*est <https://doi.org/10.3176/proc.2016.2.12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hot consolidation of aluminum and aluminum nano-MMC powders by Equal Channel Angular Pressing

Kollo, Lauri; Kallip, Kaspar; Gomon, Jaana-Kateriina; Kommel, Lembit Materials science = Medžiagotyra 2012 / p. 234-237 : ill
https://www.researchgate.net/publication/267226658_Hot_Consolidation_of_Aluminium_and_Aluminium_nano-MMC_Powders_by_Equal_Channel_Angular_Pressing

Hot sliding wear of 88 wt.% TiB-Ti composites from SHS produced powders

Kumar, Rahul, 1993-; Liu, Le; Antonov, Maksim; Ivanov, Roman; Hussainova, Irina Materials 2021 / art. 1242, 14 p.: ill
<https://doi.org/10.3390/ma14051242> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hybrid graphene/alumina nanofibers for electroconductive zirconia

Drozdova, Maria; Perez-Coll, Domingo; **Aghayan, Marina; Ivanov, Roman;** Rodriguez, Miguel Angel; **Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 15-20 : ill
<https://doi.org/10.4028/www.scientific.net/KEM.674.15> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Hybrid nanocomposites and ultrastable metal nanoparticles studied for the development of applications in nanomedicine, water purification and energy harvesting

Rauwel, Erwan; Rauwel, Protima; Küünal, Siim; Volobujeva, Olga; Ivask, Angela; Galeckas, Augustinas; Duqroquet, F.; Wragg, David EMN Meeting on Nanoparticles 2017 : May 9th to 13th, 2017 in San Sebastian, Spain 2017 / [1] p

Hybrid syntactic foams of metal - fly ash cenosphere - clay

Shishkin, Andrei; Mironovs, Viktors; Zemchenkov, Vjacheslav; **Antonov, Maksim; Hussainova, Irina** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 35-40 : ill
<https://doi.org/10.4028/www.scientific.net/KEM.674.35> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Impact of alkali and silane treatment on hemp/PLA composites' performance : from micro to macro scale

Alao, Percy Festus; Marrot, Laetitia; Burnard, Michael David; Lavrič, Gregor; **Saarna, Mart; Kers, Jaan** Polymers 2021 / art. 851, 18 p. : ill <https://doi.org/10.3390/polym13060851> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact pressure on mechanical properties of aluminum based composite by ECAP-parallel channel

Pramano, Agus; Dhoska, Klodian; Markja, Irida; **Kommel, Lembit** Pollack periodica 2019 / p. 67-74
<https://doi.org/10.1556/606.2019.14.1.7> [Journal metrics at Scopus](#) [Article at Scopus](#)

Implications of the negative capacitance observed at forward bias in nanocomposite and polycrystalline solar cells

Mora-Sero, Ivan; Bisquert, Juan; **Oja Acik, Ilona** Nano letters 2006 / 4, p. 640-650 <https://pubs.acs.org/doi/10.1021/nl052295q>

Importance of the micro-lattice structure of selective laser melting processed Mo/Mo(x)S(x+1) composite: Corrosion

studies on the electrochemical performance in aqueous solutions

Alinejadian, Navid; Kazemi, Sayed Habib; **Grossberg-Kuusik, Maarja; Kollo, Lauri**; Odneval, Inger Charlotta; **Prashanth, Konda Gokuldoss** Materials today chemistry 2022 / art. 101219 <https://doi.org/10.1016/j.mtchem.2022.101219> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An improved constitutive model for short fibre reinforced cementitious composites (SFRC) based on the orientation tensor

Herrmann, Heiko Generalized continua as models for classical and advanced materials 2016 / p. 213-227 https://doi.org/10.1007/978-3-319-31721-2_10 [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

In situ Al₃BC/Al composite fabricated via solid-solid reaction: An investigation on microstructure and mechanical behavior

Maity, Tapabrata; Prakash, Aditya; Roy, Debdas; **Prashanth, Konda Gokuldoss** Applied sciences 2025 / art. 5189 <https://doi.org/10.3390/app15095189>

In situ Mo(Si,Al)₂-based composite through selective laser melting of a MoSi₂-30 wt.% AlSi10Mg mixture

Minasyan, Tatevik; Aydinyan, Sofiya; Toyserkani, Ehsan; **Hussainova, Irina** Materials 2020 / art. 3720 ; 13 p <https://doi.org/10.3390/ma13173720> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Induction brazing of cermets to steel and eddy current testing of joint quality

Laansoo, Andres; Kübarsepp, Jakob; Surženkov, Andrei; Land, Raul; Märten, Olev; Viljus, Mart Welding in the World 2020 / p. 563-571 <https://doi.org/10.1007/s40194-020-00854-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Industrial approach to circularity of polymer composites : processing, characterization, mechanical testing, and wear regression

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim Journal of reinforced plastics and composites 2024 / p. 456-472 : ill <https://doi.org/10.1177/07316844231164563> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Industrial sustainable fabrication, SEM characterization, mechanical testing, ANOVA analysis of PP-PETF recycled composites : artificial intelligence and deep learning studies for nuclear shielding applications

Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Yörük, Can Rüstü; Sergejev, Fjodor; Kübarsepp, Jakob; Maurya, Himanshu Singh; Rahmani Ahranjani, Ramin European polymer journal 2024 / art. 113082 <https://doi.org/10.1016/j.eurpolymj.2024.113082> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of accelerated weathering on the mechanical and physical properties of wood-plastic composites

Kallakas, Heikko; Poltimäe, Triinu; Süld, Tiia-Maaja; Kers, Jaan; Krumme, Andres Proceedings of the Estonian Academy of Sciences 2015 / p. 94-104 : ill <https://doi.org/10.3176/proc.2015.1S.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of binder composition and microhardness on wear properties of light weight composites

Kommel, Lembit; Traksmaa, Rainer; Kimmari, Eduard Powder metallurgy progress 2003 / 3, p. 140-145 : ill https://www.researchgate.net/publication/269035885_Influence_of_binder_composition_and_microhardness_on_wear_properties_of_light_weight_composites

The influence of birch (Betula pendula) false heartwood on the mechanical properties of wood-plastic composites = Kase (Betula pendula) väärlülipuidu mõju puitplastkomposiitide mehaanilistele omadustele

Kallakas, Heikko 2019 <https://digi.lib.ttu.ee/i/?12253>

Influence of birch false heartwood on the physical and mechanical properties of wood-plastic composites

Kallakas, Heikko; Ayansola, Gbenga; Tumanov, Tanel; Goljandin, Dmitri; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan Bioresources 2019 / p. 3554-3566 : ill <https://doi.org/10.15376/biores.14.2.3554-3566> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of cellulose content on rheological and mechanical properties of “green” poly(lactic) acid/cellulose composites

Šumigin, Dmitri; Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Meier, Pille Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 122

Influence of cellulose content on rheological and mechanical properties of poly(lactic) acid/cellulose and LDPE/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Meier, Pille Proceedings of the 6th meeting of the Nordic-Baltic Network in Wood Material Science and engineering (WSE) : October 21-22, 2010, Tallinn, Estonia 2010 / p. 187

Influence of cellulose content on rheological and mechanical properties of poly(lactic) acid/cellulose and low-density polyethylene/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Meier, Pille 11th International Conference on Wood & Biofiber Plastic Composites & Nanotechnology in Wood Composites Symposium, May 16-18, Madison, USA 2011 / p. 51

Influence of cellulose content on thermal properties of poly(lactic) acid/cellulose and low-density polyethylene/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti 12th International Conference on Biocomposites : Transition to Green Materials : May 6-8, 2012, Niagara Falls, Ontario, Canada 2012 / p. 54
[https://www.researchgate.net/publication/267408407_Influence_of_cellulose_content_on_thermal_properties_of_poly\(lactic_acid\)_cellulose_and_low-density_polyethylenecellulose_composites](https://www.researchgate.net/publication/267408407_Influence_of_cellulose_content_on_thermal_properties_of_poly(lactic_acid)_cellulose_and_low-density_polyethylenecellulose_composites)

Influence of cellulose content on thermal properties of poly(lactic) acid/cellulose and low-density polyethylene/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti Proceedings of the Estonian Academy of Sciences 2012 / p. 237-244 : ill https://artiklid.elnet.ee/record=b2535727*est

Influence of cellulose stearate (CS) content on thermal and rheological properties of poly(lactic acid)/CS composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti Baltic Polymer Symposium 2013 / p. 99-104
<https://doi.org/10.4028/www.scientific.net/KEM.559.99> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Influence of drag finishing to dry sliding wear behaviour of PVD nanocomposite nACo coating during running-in

Surženkov, Andrei; Podgurski, Vitali; Viljus, Mart; Adoberg, Eron; Nanits, Mats-Maidu; Kulu, Priit; Veinthal, Renno Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 26

Influence of filler proportion on mechanical and physical properties of particulate composite

Aruniit, Aare; Kers, Jaan; Tall, Kaspar Agronomy research 2011 / p. 23-29 : ill

Influence of hollow glass microspheres on the mechanical and physical properties and cost of particle reinforced polymer composites

Aruniit, Aare; Kers, Jaan; Majak, Jüri; Krumme, Andres; Tall, Kaspar Proceedings of the Estonian Academy of Sciences 2012 / p. 160-165 : ill https://artiklid.elnet.ee/record=b2535363*est

Influence of interphases on the mechanical properties of alumina nanofibers reinforced alumina nanocomposite

Aghayan, Marina; Hussainova, Irina; Gasik, Michael; Kollo, Lauri Proceedings of the 1st ISN2A, 1st International Symposium on Nanoparticles/Nanomaterials and Applications : Caparica - Almada, Portugal, 20th-22th January 2014 2014 / p. 97

Influence of microstructure and chemical composition on toughness and wear resistance of carbide composites

Petrov, Mihhail TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Influence of microstructure and strengthening mechanism of AlMg5-Al2O3 nanocomposites prepared via spark plasma sintering

Babu, N. Kishore; Kallip, Kaspar; Leparoux, Marc Materials & design 2016 / p. 534-544 : ill
<http://dx.doi.org/10.1016/j.matdes.2016.01.138>

Influence of precursor zirconium carbide powders on the properties of the spark plasma sintered ceramic composite materials

Voltsihhin, Nikolai; Hussainova, Irina; Hannula, Simo-Pekka; Viljus, Mart Developments in Strategic Materials and Computational Design IV 2014 / p. 297-308 : ill <https://doi.org/10.1002/9781118807743> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Influence of preparation process on morphology and conductivity of carbon black-based electrospun nanofibers

Tarasova, Elvira; Byzova, Arina; Savest, Natalja; Viirsalu, Mihkel; Gudkova, Viktoria; Märtson, Triin; Krumme, Andres Fullerenes, nanotubes and carbon nanostructures 2015 / p. 695-700 : ill <https://doi.org/10.1080/1536383X.2014.974090> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of rapidly time-varying boundary conditions on the control of two-dimensional elastic pulses in laminates

Berezovski, Arkadi; Berezovski, Mihhail Mathematics and mechanics of complex systems 2023 / p. 335-348
<https://doi.org/10.2140/memocs.2023.11.335> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of severe straining and strain rate on the evolution of dislocation structures during micro-/nanoindentation in high entropy lamellar eutectics

Maity, Tapabrata; Prashanth, Konda Gokuldoss; Balci, Özge International journal of plasticity 2018 / p. 121-136 : ill
<https://doi.org/10.1016/j.iplas.2018.05.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Integrated product development and production technology of large composite plastic products = Suuregabariidiliste komposiidist plastdetailide tootarenduse meetodika ja valmistustehnoloogiad

Karjust, Kristo 2008 https://www.ester.ee/record=b2385493*est

Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements

Xi, Lixia; Ding, Kai; Gu, Dongdong; Guo, Shuang; Cao, Mengzhen; Zhuang, Jie; Lin, Kaijie; Okulov, Ilya; Sarac, Baran; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2021 / art. 159436, 9 p.: ill
<https://doi.org/10.1016/j.jallcom.2021.159436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interpenetrating composites : A nomenclature dilemma

Prashanth, Konda Gokuldoss Materials 2025 / art. 273 <https://doi.org/10.3390/ma18020273>

Investigation and design of shallow wooden and composite shell-cable roofs

Õiger, Karl Proceedings of the Estonian Academy of Sciences. Engineering 2002 / 2, p. 84-100 : ill

Investigation of Devulcanised Crumb Rubber Milling and Deagglomeration in Disintegrator System

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Irtiseva, Kristine; **Goljandin, Dmitri**; Shishkin, Andrei Key engineering materials 2019 / p. 216-220 <https://doi.org/10.4028/www.scientific.net/KEM.800.216> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Investigation of different carbon nanotube reinforcements for fabricating bulk AlMg5 matrix nanocomposites

Kallip, Kaspar; Leparoux, Marc; AlOgab, Khaled A. Journal of alloys and compounds 2015 / p. 710-718 : ill
<http://dx.doi.org/10.1016/j.jallcom.2015.06.169>

Investigation of different carbon nanotube reinforcements for fabricating bulk AlMg5 matrix nanocomposites [Online resource]

Kallip, Kaspar; Leparoux, Marc; AlOgab, Khaled A. Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmtdk.ut.ee/teesid/>

Investigation of planetary milling for nano-silicon carbide reinforced aluminium metal matrix composites

Kollo, Lauri; Leparoux, Marc; Bradbury, Christopher R.; Jäggi, Christian; Carreno-Morelli, Efrain; Rodriguez-Arbaizar, Mikel Journal of alloys and compounds 2010 / p. 394-400 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0925838809018738>

Investigation of severe plastic deformation processes for aluminum based composites = Alumiiniumi baasil komposiitide süvaplase deformatsiooni protsesside uurimine

Pramono, Agus 2016 <https://digi.lib.ttu.ee/i/?7098> https://www.ester.ee/record=b4640507*est

Investigation of the high temperature dry sliding wear behavior of graphene nanoplatelets reinforced aluminum matrix composites

Seçkin, Martin; Kandemir, Sinan; **Antonov, Maksim** Journal of composite materials 2021 / 13 p. : ill
<https://doi.org/10.1177/0021998320979037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of the surface fatigue of carbide composites and PVD hard coatings

Sergejev, Fjodor; **Antonov, Maksim**; **Gregor, Andre**; **Hussainova, Irina**; **Kulu, Priit**; **Kübarsepp, Jakob** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 543-548 : ill
<http://innomet.ttu.ee/daaam08/online/Materials%20Engineering/Sergejev.pdf>

Investigations of structure and tribological properties of the lightweight c-BN-based composites

Kommel, Lembit; **Kimmari, Eduard** Materials science = Medžiagotyra 2005 / 4, p. 394-397 : ill

Ionic liquids as solvents for making composite materials from cellulose

Elhi, Fred; **Aid, Tiina**; **Koel, Mihkel** Proceedings of the Estonian Academy of Sciences 2016 / p. 255-266 : ill
<https://doi.org/10.3176/proc.2016.3.09> https://artiklid.elnet.ee/record=b2798397*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Irradiation-induced atomic migration and its effect on the surface and mechanical properties of laser additive manufactured MWCNTs/Al-Mg-Sc-Zr composites

Xi, Lixia; Zhang, Yuting; Geng, Xiaofeng; Gu, Dongdong; Shi, Keyu; Ramasamy, Parthiban; **Prashanth, Konda Gokuldoss**; **Eckert, Jürgen** Journal of materials research and technology 2025 / p. 4043-4054 <https://doi.org/10.1016/j.jmrt.2025.02.109>

Isothermal oxidation of SLM fabricated Mo(Si1-xAlx)2-based composite

Minasyan, Tatevik; **Liu, Le**; Toyserkani, Ehsan; **Hussainova, Irina** IOP conference series : materials science and engineering 2021 / art. 012003, 8 p.: ill <https://doi.org/10.1088/1757-899X/1140/1/012003>

Joogikõrsi valmistav Sutu leidis pilliroole veelgi nutikama kasutuse – Põhjamaade bambusest tehakse ka sööginõusid ja kosmeetikapakendeid [Võrguväljaanne]

rohe.geenius.ee 2022 [Joogikõrsi valmistav Sutu leidis pilliroole veelgi nutikama kasutuse – Põhjamaade bambusest tehakse ka sööginõusid ja kosmeetikapakendeid](#)

K₂CO₃-containing composite sorbents based on a ZrO₂ aerogel for reversible CO₂ capture from ambient air

Veselovskaya, Janna; **Derevshchikov, Vladimir**; Shalygin, Anton S.; Yatsenko, Dmitry Microporous and Mesoporous Materials 2021 / art. 110624 <https://doi.org/10.1016/j.micromeso.2020.110624> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Karbiidkomposiitide abrasiiv-erosioon- ja hõõrdekulumine

Vainola, Vello; Kübarsepp, Jakob; Klaasen, Heinrich; Loel, Rein Tallinna Tehnikakõrgkooli Toimetised 2004 / lk. 66-71 : ill

Keskkonnasõbralike komposiitmaterjalide kasutusvõimalused väikelaevaehituses ning vee mõju nende tugevusomadustele

Malmstein, Mari Keskkonnatehnika 2011 / 2, lk. 28-31 : ill https://artiklid.elnet.ee/record=b2286701*est

Kommipaberitestja tuulikulabadest saab vesinikku

Imeline Teadus 2024 / lk. 23 : fot https://www.ester.ee/record=b2747925*est

Komposiitkonstruktsioonid

Loorits, Kalju; Parts, Aldur 2003 https://www.ester.ee/record=b1821878*est

Komposiitkonstruktsioonid. Osa 1, Hoonete komposiitkonstruktsioonide projekteerimise üldeskirjad : Eesti projekteerimisnormid, EPN-ENV 4.1.1 : (eelnoü) : välja antud veebruar 1997

Loorits, Kalju ET-kartoteek : Eesti ehitusteave. ET-1 1997 / ET-1 0113-0176, 58 lk

Komposiitmaterjalid

Arensburger, Daniil 2005 http://www.ester.ee/record=b2033458*est <https://digikogu.taltech.ee/et/Item/440a9e03-5695-4d7f-8a1f-fb91b9def74c>

Komposiitmaterjalid

Arensburger, Daniil; Kulu, Priit 1996 https://www.ester.ee/record=b1071342*est

Komposiitmaterjalid : täienduskursus : november 2007 - jaanuar 2008

Veinthal, Renno 2008 https://www.ester.ee/record=b4652765*est

Komposiitplastist toodete valmistustehnoloogiad ja tootmisjäätmete ringlussevõtt

Kers, Jaan Keskkonnatehnika 2008 / 5, lk. 18-22 : ill https://artiklid.elnet.ee/record=b1022335*est

Kõrgtehnoloogilised pulberkomposiitmaterjalid ja -pinded tööks kulumise tingimustes

Kulu, Priit; Kübarsepp, Jakob Teaduse uued suunad : materjaliteadus : Eesti Teaduste Akadeemia seminari materjalid : 23.10.2003 2004 / lk. 31-37 : ill

Laser powder-bed fusion of Mo(Si,Al)₂ – based composite for elevated temperature applications

Minasyan, Tatevik; Ivanov, Roman; Toyserkani, Ehsan; Hussainova, Irina Journal of alloys and compounds 2021 / art. 161034 <https://doi.org/10.1016/j.jallcom.2021.161034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lattice of MoSi₂/Si₃N₄ by selective laser melting

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Kollo, Lauri; Aghayan, Marina; Hussainova, Irina European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / art. 3993050 [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

Layered functionally graded alumina ceramic composites

Drozdova, Maria; Ivanov, Roman; Rodriguez, Miguel Angel; Hussainova, Irina ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 227 <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

Life cycle assessment of end-of-life tire disposal methods and potential integration of recycled crumb rubber in cement composites

Kolendo, Girts; Voronova, Viktoria; Bumanis, Girts; Korjakins, A.; Bajare, D. Applied Sciences (Switzerland) 2024 / art. 11667 <https://doi.org/10.3390/app142411667> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lignin valorization via chloromethylation as a versatile approach towards sustainable materials

Mohan, Mahendra Kothottil; Karpichev, Yevgen Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025 "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 38 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Linear modeling of elongated bending EAP actuator at large deformations

Must, Indrek; Anton, Mart; Kruusmaa, Maarja; Aabloo, Alvo Proceedings of SPIE 2009 / Electroactive Polymer Actuators and Devices (EAPAD) 2009, p. 728723-1 - 728723-12 : ill

A linked manipulator with ion-polymer metal composite (IPMC) joints for soft- and micromanipulation

Kruusmaa, Maarja; Hunt, Andres; Punning, Andres; Anton, Mart; Aabloo, Alvo 2008 IEEE International Conference on Robotics and Automation : Pasadena, CA, 19-23 May 2008. Vols. 1-9 2008 / p. 3588-3593

Loodusest inspireeritud uued komposiitmaterjalid

Antonov, Maksim Horisont 2019 / lk. 16-17 : fot http://www.ester.ee/record=b1072243*est

Low temperature crystallization peak in Ziegler-Natta and single site based ethylene/α-olefin composites

Krumme, Andres; Tarasova, Elvira; Poltimäe, Triinu; Lehtinen, Arja; **Viikna, Anti** 2nd International Conference on Polyolefin Characterization : Valencia (Spain), September 14-17, 2008 2008 / p. 85

Low temperature, spark plasma sintering behavior of zirconia added by a novel type of alumina nanofibers

Voltšihhin, Nikolai; Rodriguez, Miguel Angel; **Hussainova, Irina**; **Aghayan, Marina** Ceramics international 2014 / p. 7235-7244 : ill <https://doi.org/10.1016/j.ceramint.2013.12.063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Magnesio-carbothermal reduction of CuWo₄/MeO nanostructured precursors & synthesis of W/Cu composite materials

Zakaryan, Marieta; Kirakosyan, Hasmik; Abovyan, L.; **Aydinyan, Sofiya**; Kharatyan, Suren Chemical Journal of Armenia 2017 / p. 450-461 <http://chemistry.asj-oa.am/id/eprint/7826>

Magnetic assisted sorption technology for advanced removal and recovery of phosphorus from mainstream and side-stream WWTP

Ivanova Drenkova-Tuhtan, Asya; Meyer, Carsten; Mandel, Karl; Schneider, Michael IWA Nutrient Removal and Recovery Conference 18-21 November 2018, Brisbane, Australia 2018 / p. 5 : ill ["IWA"](#)

Manufacturability and deformation studies on a novel metallic lattice structure fabricated by Selective Laser Melting

Baskaran, Jagadeesh; Muthukannan, Duraiselvam; **Shukla, Riddhi Hirenkumar**; **Prashanth, Konda Gokuldoss** Vacuum 2024 / art. 113065 <https://doi.org/10.1016/j.vacuum.2024.113065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Manufacturing of silicon – Bioactive glass scaffolds by selective laser melting for bone tissue engineering

Rodrigo-Vazquez, C. Sara; **Kamboj, Nikhil Kumar**; Aghayan, Marina; Saez, Ada; De Aza, Antonio de; Rodriguez, Miguel Angel; **Hussainova, Irina** Ceramics international 2020 / p. 26936-26944 : ill <https://doi.org/10.1016/j.ceramint.2020.07.171> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Manufacturing of steered fiber composite laminate

Haavajõe, Anti; **Mikola, Madis**; **Herranen, Henrik**; **Pohlak, Meelis** Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 21-26 : ill

Material characterization for laminated glass composite panel

Väer, Kaur; Anton, Johan; **Klauson, Aleksander**; **Eerme, Martin**; **Õunapuu, Erko**; Tšukrejev, Pavel Journal of achievements in materials and manufacturing engineering 2017 / p. 11-17 <https://doi.org/10.5604/01.3001.0010.2032> [Journal metrics at Scopus](#) [Article at Scopus](#)

Mechanical and physical properties of hemp fiber-mat reinforced polyethylene film composites

Yang, Xuejian; **Kallakas, Heikko**; **Kers, Jaan** Biocomp 2016 : the 13th Pacific Rim Bio-Based Composite Symposium, Bio-Based Composites for the Sustainable Future : November 14th to 16th, 2016, Concepcion, Chile : abstracts 2016 / p. 91 : ill <http://publicaciones.udt.cl/wp-content/uploads/2017/05/Abstracts-Biocomp-2016-2.pdf>

Mechanical and physical properties of silane crosslinked wood flour reinforced composites

Kallakas, Heikko; **Shamim, M. A.**; **Poltimäe, Triinu**; **Süld, Tiia-Maaja**; **Krumme, Andres**; **Kers, Jaan** Proceedings of the 11th Meeting of the Northern European Network for Wood Sciences and Engineering (WSE) : September 14-15, 2015, Poznan, Poland 2015 / p. 278

Mechanical and physical properties of thermally modified wood flour reinforced polypropylene composites

Kallakas, Heikko; **Martin, Mihkel**; **Goljandin, Dmitri**; **Poltimäe, Triinu**; **Krumme, Andres**; **Kers, Jaan** Agronomy research 2016 / p. 994-1003 : ill http://ise.elnet.ee/record=b2891902~S1*est [Journal metrics at Scopus](#) [Article at Scopus](#)

Mechanical and physical properties of thermally modified wood flour reinforced polypropylene composites [Online resource]

Kallakas, Heikko; **Poltimäe, Triinu**; **Krumme, Andres**; **Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

Mechanical and structural characterization of multiphase B₄C/Al composites synthesized by SHS

Kimmari, Eduard; **Kommel, Lembit** 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" :

Mechanical characterization and modeling of chromium carbide based composites

Jasiuk, Iwona; **Hussainova, Irina**; Hamed, Elham Proceedings of 16th International Conference on Mechanics of Composite Materials : MCM 2010 : May 24-28, Riga, Latvia 2010

Mechanical disintegration of Al-W-B waste material

Shishkin, A.; Mironov, V.; **Goljandin, Dmitri**; Lapkovsky, V. World PM2010 proceedings. Vol. 2, Sintering, Secondary and Finishing Operations, Full Density and Alternative Consolidation 2010 / p. 597-601
https://www.researchgate.net/publication/290520673_Mechanical_disintegration_of_Al-W-B_waste_material

Mechanical properties and self-healing capacity of ultra high performance fibre reinforced concrete with alumina nano-fibres : tailoring ultra high durability concrete for aggressive exposure scenarios

Cuenca, Estefania; D'Ambrosio, Leonardo; Lizunov, Dennis; **Tretjakov, Aleksei**; **Volobujeva, Olga**; Ferrara, Liberato Cement and concrete composites 2021 / art. 103956, 17 p <https://doi.org/10.1016/j.cemconcomp.2021.103956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanically activated synthesis of ZrC nanopowders to produce composites with TiC and Mo additives

Yung, Der-Liang; **Kollo, Lauri**; **Hussainova, Irina**; **Zikin, Arkadi** ECOTRIB 2011 : 3rd European Conference on Tribology and 4th Vienna International Conference on Nano-Technology : June 7-9, 2011, Vienna, Austria. 2 2011 / p. 793-796

Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in Co-Cr-Fe-Ni-Nb high-entropy composites

Maity, Tapabrata; **Prashanth, Konda Gokuldoss**; Janda, Alexander Journal of materials research 2019 / p. 2672-2682 : ill <https://doi.org/10.1557/jmr.2019.149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metal powder/fly ash cenosphere/modified clay composite

Šiškins, Andrejs; Mironovs, Viktors; Zemčenkova, Vjačeslavs; **Hussainova, Irina** Euro PM2014 proceedings : PM Functional Materials 2014

Metal-coated cenospheres obtained via magnetron sputter coating : a new precursor for syntactic foams

Shishkin, A.; **Hussainova, Irina**; Kozlov, V.; Lisnanskis, M.; Leroy, P.; Lehmhus, D. JOM : the journal of the minerals, metals & materials society 2018 / p. 1319-1325 : ill <https://doi.org/10.1007/s11837-018-2886-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metallic multimaterials fabricated by combining additive manufacturing and powder metallurgy

Yadav, Mayank Kumar; **Shukla, Riddhi Hirenkumar**; Xi, Lixia; Wang, Zhi; **Prashanth, Konda Gokuldoss** Journal of composites science 2025 / art. 80 <https://doi.org/10.3390/jcs9020080>

Metallmaatrikskomposiitmaterjalid triboloogias : avalik loeng 3. mail 2007 TTÜs

Veinthal, Renno Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 326-331 : ill

Metal-matrix hardmetal/cermet reinforced composite powders for thermal spray

Goljandin, Dmitri; **Sarjas, Heikki**; **Kulu, Priit**; Käerdi, Helmo; **Mikli, Valdek** Materials science = Medžiagotyra 2012 / p. 84-89 : ill https://www.researchgate.net/publication/267243513_Metal-Matrix_HardmetalCermet_Reinforced_Composite_Powders_for_Thermal_Spray

Metal-metal interpenetrating phase composites: A review

Zhang, Zuyao; Wang, Zhi; Zhao, Qizhong; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2024 / art. 176951 <https://doi.org/10.1016/j.jallcom.2024.176951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methods for fibre orientation analysis of X-ray tomography images of steel fibre reinforced concrete (SFRC)

Herrmann, Heiko; **Pastorelli, Emiliano**; Kallonen, Aki; Suuronen, Jussi-Petteri Journal of materials science 2016 / p. 3772-3783 : ill <https://doi.org/10.1007/s10853-015-9695-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Micro-scale studies of wear of composite materials

Hussainova, Irina The 4th Nordic-Baltic SPM Workshop, Tartu, Estonia, May 29-31, 2002 : abstract book 2002 / p. 27-28

Microstructural and mechanical characteristics of in situ synthesized chromium-nickel-graphite composites

Pirso, Jüri; **Viljus, Mart**; **Letunovitš, Sergei**; **Juhani, Kristjan** Materials science forum 2007 / Progress in powder metallurgy, p. 1209-1212 : ill <https://www.scientific.net/MSF.534-536.1209>

Microstructural and mechanical characteristics of in situ synthesized chromium-nickel-graphite composites

Pirso, Jüri; **Viljus, Mart**; **Letunovitš, Sergei**; **Juhani, Kristjan** Extended abstracts of 2006 Powder Metallurgy World Congress : Busan, Korea, September 24-28. 1 2006 / p. 631-632

Microstructural aspects of ceramic-metal composites performance in erosive media

Hussainova, Irina; Antonov, Maksim; Volobujeva, Olga Advances in science and technology 2006 / 11th International Ceramic Congress, p. 132-141 : ill

Microstructural aspects of erosive wear of particulate reinforced composites

Hussainova, Irina; Pirso, Jüri Book of the abstracts of 2003 International Conference on Powder Metallurgy & Particulate Materials : Las Vegas, USA, 2003 2003 / p. 122

Microstructural aspects of erosive wear of particulate reinforced composites [Electronic resource]

Hussainova, Irina; Pirso, Jüri Proceedings of 2003 International Conference on Powder Metallurgy & Particulate Materials : PM2TEC2003 : Las Vegas, USA, 2003 2003 / [CD-ROM]

Microstructural aspects of thermal sprayed WC-Co coatings and Ni-Cr coated steels = WC-Co termopinnete ja Ni-Cr pinnatud teraste metallograafilised aspektid

Peetsalu, Priidu 2007 https://www.ester.ee/record=b2315917*est

Microstructural design of ceramic-metal composites for tribological applications

Hussainova, Irina Abstract book of the 5th Asian-Australian Conference on Composite Materials : ACCM-5 : 27-30 November, 2006, Hong-Kong 2006 / p. 16-17

Microstructural design of ceramic-metal composites for tribological applications

Hussainova, Irina Advances in composite materials and structures 2007 / p. 125-128 : ill

Microstructural, mechanical and corrosion behaviour of Al-Si alloy reinforced with SiC metal matrix composite

Bandil, Kapil; Vashisth, Himanshu; Kumar, Sourav; Singh, Neera Journal of composite materials 2019 / p. 4215-4223 : ill
<https://doi.org/10.1177/0021998319856679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and erosive wear in ceramic-based composites

Hussainova, Irina Wear 2005 / p. 357-365 : ill

Microstructure and erosive wear of ceramic based composites

Hussainova, Irina Abstracts of International Conference on Erosive and Abrasive Wear II : Cambridge, UK, 2003 2003 / p. 31
<https://www.sciencedirect.com/science/article/pii/S0043164804002236>

Microstructure and mechanical characterization of WC-based composites doped by zirconia

Hussainova, Irina; Kimmari, Eduard; Kollo, Lauri; Jasiuk, Iwona Proceedings of 16th International Conference on Mechanics of Composite Materials : MCM 2010 : May 24-28, Riga, Latvia 2010

Microstructure and mechanical properties of near net shaped aluminium/alumina nanocomposites fabricated by powder metallurgy

Kallip, Kaspar; Babu, N. Kishore; AlOgab, Khaled A.; Kollo, Lauri; Maeder, Xavier; Arroyo, Yadira; Leparoux, Marc Journal of alloys and compounds 2017 / p. 133-143 : ill <https://doi.org/10.1016/j.jallcom.2017.04.233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and mechanical properties of TiB₂/Al-5Cu composites fabricated by multi-material laser powder bed fusion

Liang, Zixi; Qi, Junfang; Prashanth, Konda Gokuldoss; Kang, Nan; Wang, Pei Optics and laser technology 2025 / art. 111922
<https://doi.org/10.1016/j.optlastec.2024.111922>

Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites

Xie, M.S.; Wang, Zhi; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2020 / art. 152317, 6 p. : ill
<https://doi.org/10.1016/j.jallcom.2019.152317> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and properties of in situ high entropy alloy/tungsten carbide composites by mechanical alloying

Sokkalingam, Rathinavelu; Tarraste, Marek; Surreddi, Kumar Babu; Traksmaa, Rainer; Muthupandi, Veerappan; Sivaprasad, Katakam; Prashanth, Konda Gokuldoss Material design & processing communications 2020 / 9 p. : ill
<https://doi.org/10.1002/mdp2.175> [Journal metrics at Scopus](#) [Article at Scopus](#)

Microstructure and superconductivity of bulk BPSCCO/LPMO composite

Stoyanova-Ivanova, Angelina; Staneva, Anna; Shoumarova, Janna; Blagoev, Blagoy; Zaleski, Andrzej; Mikli, Valdek; Dimitriev, Yanko Philosophical magazine letters 2011 / p. 190-199 : ill

Microstructure evolution and changes in mechanical properties in WC-Co composites during recycling by oxidation-reduction process and sintering

Joost, Renee; Pirso, Jüri; Viljus, Mart 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 29

Microstructure evolution and mechanical properties investigation of friction stir welded AlMg5-Al₂O₃ nanocomposites
Babu, N. Kishore; **Kallip, Kaspar**; Leparoux, Marc TMS 2016 : 145 Annual Meeting & Exhibition : supplemental proceedings 2016 / p. 729-736 : ill http://dx.doi.org/10.1007/978-3-319-48254-5_87

Microstructure evolution and tensile property of high entropy alloy particle reinforced 316 L stainless steel matrix composites fabricated by laser powder bed fusion
Zhang, Xinqi; Yang, Dongye; Jia, Yandong; Wang, Gang; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 171430 <https://doi.org/10.1016/j.jallcom.2023.171430> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure evolution in WC-Co composites during reactive sintering from nanocrystalline powders [Electronic resource]
Pirso, Jüri; Viljus, Mart; Joost, Renee; Juhani, Kristjan; Letunovitš, Sergei Advances in Powder Metallurgy & Particulate Materials 2008 2008 / [12] p. : ill. [CD-ROM]

Microstructure evolution of TiC cermets with ferritic AISI 430L steel binder
Kolnes, Märt; Mere, Arvo; Kübarsepp, Jakob; Viljus, Mart; Maaten, Birgit; Tarraste, Marek Powder metallurgy 2018 / p. 197-209 : ill <https://doi.org/10.1080/00325899.2018.1447268> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure formation and mechanical performance of micro-nanoscale ceramic reinforced aluminum matrix composites manufactured by laser powder bed fusion
Xi, Lixia; Feng, Lili; Gu, Dongdong; **Prashanth, Konda Gokuldoss**; Kaban, Ivan; Wang, Ruiqi; Xiong, Ke; Sarac, Baran; Eckert, Jürgen Journal of alloys and compounds 2023 / art. 168803 <https://doi.org/10.1016/j.jallcom.2023.168803> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure, mechanical, and impression creep properties of AlMg5-0.5 vol% Al₂O₃ nanocomposites
Talari, Mahesh Kumar; Babu, N. Kishore; **Kallip, Kaspar** Advanced engineering materials 2016 / p. 1958-1966 : ill <http://dx.doi.org/10.1002/adem.201600301>

Microstructure, wear and corrosion characteristics of Cu matrix reinforced SiC-graphite hybrid composites
Jamwal, Anbesh; Prakash, Prem; Kumar, Devendra; **Singh, Neera**; Sadasivuni, Kishor Kumar; Harshit, Kumar; Gupta, Sumit; Gupta, Pallav Journal of composite materials 2019 / p. 2545 - 2553 <https://doi.org/10.1177/0021998319832961> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microtribological studies of different nanocomposite TiC/a-C:H coatings using a modified nanoidentation setup
Schwaller, P.; Patscheider, J.; **Kollo, Lauri**; Michler, J. Tribology letters 2004 / 4, p. 757-763

Mikroskoopia kujutiste ja röntgenspektrogrammide töötlemine ja rakendamine materjalide uurimisel : aruanne : G444 : teadussuuna klass 1.2, 2.2
Viljus, Mart 1994 https://www.ester.ee/record=b2084735*est

Mineralogical composition and strength formation of oil shale ash based building composites
Raado, Lembi-Merike; Hain, Tiina; Somelar, Peeter; Uibu, Mai International oil shale symposium : Tallinn, Estonia, June 10-13, 2013 2013 / p. 58

Modeling constitutive relation for woven polymer-based composites
Majak, Jüri; Pohlak, Meelis; Küttner, Rein; Eerne, Martin; Herranen, Henrik NATO Advanced Research Workshop : Textile Composites : May 18-22, 2009, Kiev, Ukraine 2009 / [3] p

Modeling of erosion wear of powder composite materials and coatings
Veinthal, Renno; Kulu, Priit; Käerdi, Helmo Surface modification technologies : proceedings of the 20th International Conference on Surface Modification Technologies : September 25-29, 2006, Vienna, Austria 2007 / p. 129-132 : ill

Modelling and testing of the properties of recovered composite material
Kers, Jaan; Goljandin, Dmitri; Tall, Kaspar; Aruniit, Aare; Adoberg, Eron; Saarna, Mart; Majak, Jüri Proceedings of the Tenth International Conference on Computational Structures Technology : Valencia, Spain, 14-17 September 2010 2010 / Paper 81 https://www.researchgate.net/publication/269140253_Modelling_and_Testing_of_the_Properties_of_Recovered_Composite_Material

Modelling of erosion wear of powder composite materials and coatings [Electronic resource]
Veinthal, Renno; Kulu, Priit Proceedings of 15th IFHTSE and 20 SMT Congress : September 2006, Vienna 2006 / [CD-ROM]

Modelling of impact-abrasive wear of ceramic, metallic, and composite materials
Rahmani Ahranjani, Ramin; Antonov, Maksim; Kamboj, Nikhil Kumar Proceedings of the Estonian Academy of Sciences 2019 / p. 191-197 : ill <https://doi.org/10.3176/proc.2019.2.11> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-191-197.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling process parameters of the PA12-CF60 carbon fiber laminating tape for low cost laminating devices

Haavajõe, Anti; Mikola, Madis; Pohlak, Meelis International Conference of numerical analysis and applied mathematics, ICNAAM 2019, 23–28 September 2019, Rhodes, Greece 2020 / art. 230006 <https://doi.org/10.1063/5.0026715> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Moisture buffer value of composite material made of clay-sand plaster and wastepaper

Nutt, Nele; Kubjas, Ardo Journal of sustainable architecture and civil engineering 2020 / p. 108–115
<https://doi.org/10.5755/j01.sace.27.2.25391> [Journal metrics at Scopus](#) [Article at Scopus](#)

Molecular scale organized polyconjugated polymer-heteropolyacid composites

Kulak, Anatoly; Kokorin, Alexander; Kulak, Tamara; **Meissner, Dieter** Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 12-17 : ill

Monograin membranes as artificial thylakoid membranes [Online resource]

Samiepour, Ali; Kouhiisfahani, Elham; Morawietz, Tobias; Hiesgen, Renate; **Meissner, Dieter** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

Mo(Si1-x,Alx)2-based composite by reactive laser powder-bed fusion

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Volobujeva, Olga; Toyserkani, Ehsan; **Hussainova, Irina** Materials letters 2020 / art. 128776, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.128776> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

MoSi2 based composites by selective laser melting

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Hussainova, Irina APICAM2019 program : [abstracts] 2019 / p. [218]
<https://www.apicam2019.com.au/LiteratureRetrieve.aspx?ID=200067>

MoSi2-based composites by selective laser melting = Selektiivse lasersulatuse teel valmistatud MoSi2 baasil komposiidid

Minasyan, Tatevik 2020 https://www.ester.ee/record=b5388072*est <https://digikogu.taltech.ee/et/Item/26aa1fe6-b853-43b8-887a-51b6efa0b5ef>

Multicriteria optimization of large composite parts

Pohlak, Meelis; Majak, Jüri; Küttner, Rein; Karjust, Kristo 15th International Conference on Composite Structures ICCS 15 : University of Porto, Porto, Portugal, 15-17 June 2009 2009 / p. 1-2

Multifunctional, multilayered and nanostructured hard coatings

Podgurski, Vitali Nanopowders, Nanostructured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 25-26

Multiphase forming in lightweight composites during SHS reaction

Kommel, Lembit; Kimmari, Eduard Materials science 2008 / p. 242-246 : ill <https://www.matsc.ktu.lt/index.php/MatSc/article/view/26220>

Multiphase forming in lightweight composites during SHS reaction

Kommel, Lembit; Kimmari, Eduard 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 19-20 <https://www.matsc.ktu.lt/index.php/MatSc/article/view/26220>

Multiphase microstructure forming purpose in lightweight composites

Kommel, Lembit; Kimmari, Eduard Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 479-484 : ill
https://www.academia.edu/60674244/Multiphase_Microstructure_Forming_Purpose_in_Lightweight_Composites

Multi-scale characterization and modeling of chromium carbide based cermets

Jasiuk, Iwona; **Hussainova, Irina;** Hamed, Elham Characterization of Metal Matrix Composites : Materials Science and Technology 2009 : conference and exhibition : October 25-29, 2009, Pittsburgh, Pennsylvania, USA. Vol. 3 2009 / p. 1775-1784

Nanoindentation analysis and micromechanical modeling of chromium carbide based composites

Hussainova, Irina; Hamed, Elham; Jasiuk, Iwona Nanomeasure 2010 : June 3-4, 2010, Krakow, Poland : abstract book 2010

Nanoindentation testing and modeling of chromium carbide based composites

Hussainova, Irina; Hamed, Elham; Jasiuk, Iwona Mechanics of composite materials 2011 / p. 667-678 : ill

Nano-silicon carbide reinforced aluminium produced by high-energy milling and hot consolidation

Kollo, Lauri; Bradbury, Christopher R.; **Veinthal, Renno;** Jäggi, Christian; Carreno-Morelli, Efrain; Leparoux, Marc Materials science and engineering : A 2011 / p. 6606-6615 : ill

Nanosize nitride-based powders prepared by the plasma technique

Grabis, Janis International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference 25-27th September 1997, Tallinn, Estonia 1997 / p. 112-114: ill

Natural wood cell walls and their damage in unconventional conditions from the view-point of composite materials

Gravitis, J.; **Kallavus, Urve**; Kokorevics, A.; Andersons, B.; Teeäär, R. Ninth International Conference on Mechanics of Composite Materials, October 17-20, 1995, Riga, Latvia : proceedings of conference 1995 / p. 21

New antimicrobial CU(II)-polytungstate/polylactic acid films

Duvanova, Ella; **Krasnou, Illia**; Knyzhnyk, Ivan; Radio, Serhii V.; **Karpichev, Yevgen** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 15 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

New composite coatings on the base of recycled hardmetals

Zimakov, Sergei; **Tarbe, Riho**; **Kulu, Priit** Thermal Spray 2003 : proceedings of the International Thermal Spray Conference : [Orlando, Florida, 5-8 May 2003] 2003 / p. 455-459
https://www.researchgate.net/publication/363288015_New_Composite_Coatings_on_the_Base_of_Recycled_Hardmetals

New electroactive composite systems based on microporous polyethylene films with nanoscale structure

Elyashevich, Galina K.; Rosova, Elena; Kuryndin, I.; Dmitriev, I.; Sidorovich, A.; **Reut, Jekaterina** Proceedings of MACRO 2004 : World Polymer Congress : 40th IUPAC International Symposium on Macromolecules : Symposia 2.2, Nano and Mesoscale Polymeric Materials 2005 / ? p

NiO and WO₃ coreduction by combined reducers Mg/C and preparation of W-Ni alloy [Online resource]

Zakaryan, Marieta; **Aydinyan, Sofiya**; Kharatyan, Suren Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L03
http://2018.cimtec-congress.org/abstracts_focused_session_cb-10

Novel alumina-nanocarbon hybrids

Hussainova, Irina; Anoshkin, Ilya; **Ivanov, Roman**; **Kübasepp, Jakob** 38th International Conference & Exposition on Advanced Ceramics and Composites : abstract book : January 26-31, 2014, Daytona Beach, Florida 2014 / p. 117

Novel approach for the preparation of shapes from TiB₂-Si₃N₄ composite by selective laser melting

Liu, Le; **Minasyan, Tatevik**; **Aydinyan, Sofiya**; **Hussainova, Irina** Proceedings of the Euro PM 2018 Congress : Bilbao, Spain. 14–18 October 2018 2018 <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-am-special-materials>

Novel approach for the synthesis and sintering of TiB₂-Si₃N₄ ceramic composite

Liu, Le; **Minasyan, Tatevik**; **Aydinyan, Sofiya**; **Hussainova, Irina** European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / art. 3987173 [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

A novel approach to electroconductive ceramics filled by graphene covered nanofibers

Drozdova, Maria; **Hussainova, Irina V.**; Pérez-Coll, Domingo; **Aghayan, Marina**; **Ivanov, Roman A.**; Rodríguez, M. A. Materials and Design 2016 / p. 291 - 298 <https://doi.org/10.1016/j.matdes.2015.10.148> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Novel method for producing electrospun composite nanofibre yarns

Viirsalu, Mihkel; **Savest, Natalja**; **Plamus, Tiia**; **Vassiljeva, Viktoria**; **Krumme, Andres** Proceedings of the Estonian Academy of Sciences 2018 / p. 169-174 : ill <https://doi.org/10.3176/proc.2018.2.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel method to enhance the mechanical properties of polyacrylonitrile nanofiber mats: an experimental and numerical investigation

Sanchaniya, Jaymin Vrajla; Lasenko, Inga; Vijayan, Vishnu; Smogor, Hilary; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri** Polymers 2024 / art. 992 <https://doi.org/10.3390/polym16070992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel pathway of solution combustion synthesis of silicon carbide and SiC based composite whiskers

Kirakosyan, Hasmik; Nazaretyan, Khachik; Amirkhanyan, Narine; Beglaryan, Hayk; **Aydinyan, Sofiya** Modern materials and manufacturing 2023 2024 / art. 040009 <https://doi.org/10.1063/5.0189204> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A novel route for the preparation of TiB₂/TiN composites by selective laser sintering [Online resource]

Liu, Le; **Minasyan, Tatevik**; **Aydinyan, Sofiya**; **Hussainova, Irina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

Novel SiO_xN_y composite thin films with aligned carbon nanotubes network

Shmagina, Elizaveta; **Mikli, Valdek**; **Bereznev, Sergei** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fntdk.ut.ee/programm-2023/>

Novel SiOxNy protective coatings with aligned carbon nanotubes network

Shmagina, Elizaveta; Volobujeva, Olga; Mikli, Valdek; Bereznev, Sergei Symposium E : Carbon- and/or nitrogen-containing thin films and nanomaterials : 40th Anniversary 2023 / art. 00680 <https://srv3.key4events.com/key4register/AbstractList.aspx?e=31&preview=1&aig=-1&ai=1968>

Novel synthesized and milled carbide-based composite powders for HVOF spray = Uudsed sünteesitud ja jahvatatud karbiidide baasil komposiitpulbrid kiirleekpihustuseks

Sarjas, Heikki 2016 https://www.ester.ee/record=b4569666*est

A novel Ti-eggshell-based composite fabricated by combined additive manufacturing-powder metallurgical routes as bioimplants

Shukla, Riddhi Hirenkumar; Yadav, Mayank Kumar; Madruga, Liszt Yeltsin Coutinho; Jaymani, Jayraj; Popat, Ketul; Wang, Zhi; Xi, Lixia; Prashanth, Konda Gokuldoss Ceramics international 2024 / 11 p <https://doi.org/10.1016/j.ceramint.2024.12.073>

Numerical simulation of two-dimensional wave propagation in functionally graded materials

Berezovski, Arkadi; Engelbrecht, Jüri; Maugin, Gerard A. European journal of mechanics - A/Solids 2003 / p. 257-265 : ill <https://www.sciencedirect.com/science/article/pii/S0997753803000299>

Numerical simulation of ultrasonic time reversal on defects in carbon fibre reinforced polymer

Lints, Martin; Salupere, Andrus; Dos Santos, Serge Wave motion 2020 / art. 102526, 10 p. : ill <https://doi.org/10.1016/j.wavemoti.2020.102526> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical simulation of wave propagation in heterogeneous and microstructured materials = Lainelevi numbriline simulatsioon heterogeensetes ja mikrostruktuuriga materjalides

Berezovski, Mihhail 2010 http://www.ester.ee/record=b2604922*est

On micromechanical problems of erosive wear of particle reinforced composites

Hussainova, Irina Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 1, p. 46-58 : ill

Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe

Leontie, Liviu; Evtodiev, Igor; Spalatu, Nicolae Journal of alloys and compounds 2014 / p. 542-545 : ill

Optical properties of GaTe-ZnTe nanolamellae composite

Spalatu, Nicolae; Evtodiev, Igor; Caraman, Iuliana Energy procedia 2015 / p. 176-182 : ill <https://doi.org/10.1016/j.egypro.2015.12.311> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Optimal adhesion area of the glass-fiber reinforcement layer

Karjust, Kristo; Pohlak, Meelis; Majak, Jüri 14th European Conference on Composite Materials : 7-10 June 2010, Budapest, Hungary 2010 / [10] p

Optimal adhesion measuring methods of the glass fibre reinforcement layer

Karjust, Kristo; Pohlak, Meelis; Majak, Jüri Estonian journal of engineering 2010 / 4, p. 297-306 : ill

Optimal adhesion measuring methods of the glass-fiber reinforcement layer

Karjust, Kristo; Pohlak, Meelis; Majak, Jüri Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [I] 2010 / p. 232-237 : ill

Optimal holder configurations for suspended glass panels

Auriemma, Fabio; Aiello, Robert 25th International Congress on Sound and Vibration 2018 (ICSV 25) : Hiroshima Calling, Hiroshima, Japan, 8-12 July, 2018 : proceedings. Vol. 1 2018 / p. 4331-4338 <http://toc.proceedings.com/40638webtoc.pdf>

Optimised signal processing for nonlinear ultrasonic nondestructive testing of complex materials and biological tissues =

Optimeeritud signaalitöötlus mittelineaarsete komplekssete materjalide ja bioloogiliste kudede mittepurustavaks testimiseks ultraheliga = Traitement du signal optimisé pour l'évaluation non linéaire non destructive des matériaux complexes et des tissus biologiques

Lints, Martin 2017 <https://digi.lib.ttu.ee/i/?8437> https://www.ester.ee/record=b4689325*est

Optimization of hardmetal reinforcement content in Fe-based hardfacings for abrasive-impact wear conditions

Surženkov, Andrei; Tarbe, Riho; Tarraste, Marek; Simson, Taavi; Viljus, Mart; Kulu, Priit European Conference on Heat Treatment 2016 and 3rd International Conference on Heat Treatment and Surface Engineering in Automotive Applications : 11-13 May 2016, Prague, Czech Republic, Břevnov Monastery 2016 / [10] p. : ill

Optimization study of composite bathtub

Pohlak, Meelis; Majak, Jüri; Karjust, Kristo; Küttner, Rein Proceedings of Second International Conference on Multidisciplinary Design Optimization and Applications : Gijón, Spain, 3-5 September 2008 2008 / p. 1-10 : ill

Orgaanilised komposiitmaterjalid : täienduskursus : 1. veebruar 2008 - 11. aprill 2008
Kaps, Tiit 2008

Orientation of short steel fibres in concrete : measuring and modelling = Metallist lühikiudude orientatsioon betoonis : mõõtmine ja modelleerimine

Eik, Marika 2014 <https://digi.lib.ttu.ee/i/?965> https://www.ester.ee/record=b3079293*est

Oxidation of spark plasma sintered ZrC-Mo and ZrC-TiC composites

Yung, Der-Liang; Maaten, Birgit; Antonov, Maksim; Hussainova, Irina International journal of refractory metals and hard materials 2017 / p. 244-251 : ill <https://doi.org/10.1016/j.jrmhm.2017.03.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oxygen reduction on catalysts prepared by pyrolysis of electrospun styrene- acrylonitrile copolymer and multi-walled carbon nanotube composite fibres

Mooste, Marek; KibenaIPöldsepp, Elo; Matisen, Leonard; Vassiljeva, Viktoria; Krumme, Andres Catalysis letters 2018 / p. 1815–1826 : ill <https://doi.org/10.1007/s10562-018-2392-6> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paneks kanepit ... betooni sisse

Ehitaja 2025 / lk. 42-44 : fot https://www.ester.ee/record=b1072123*est

Parametric study on in situ Laser powder bed fusion of Mo(Si_{1-x}Al_x)₂

Minasyan, Tatevik; Aydinyan, Sofiya; Toyserkani, Ehsan; Hussainova, Irina Materials 2020 / art. 4849, 17 p. : ill <https://doi.org/10.3390/ma13214849> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Particle reinforced polymer composite's stain resistance factors

Aruniit, Aare; Kers, Jaan; Krumme, Andres; Allikas, Georg; Poltimäe, Triinu ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 <http://www.escm.eu.org/eccm15/data/assets/417.pdf>

Particle reinforced polymer composites resistance to three body abrasive wear

Aruniit, Aare; Antonov, Maksim; Kers, Jaan; Krumme, Andres TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Particle size and proportion influence to impact properties of particulate polymer composite

Aruniit, Aare; Kers, Jaan; Krumme, Andres; Peetsalu, Priidu Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 325-330 : ill

Particulate filled composite plastic materials from recycled GFRP

Kers, Jaan; Goljandin, Dmitri; Saarna, Mart; Aruniit, Aare; Tall, Kaspar; Majak, Jüri Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 15

Particulate filled composite plastic materials from recycled glass fibre reinforced plastics

Aruniit, Aare; Kers, Jaan; Goljandin, Dmitri; Saarna, Mart; Tall, Kaspar; Majak, Jüri; Herranen, Henrik Materials science = Medžiagotyra 2011 / p. 276-281 : ill

Performance and failure of carbide composites in different wear conditions

Klaasen, Heinrich; Roosaar, Tõnu; Kübarsepp, Jakob; Tšinjan, Aleksei International Powder Metallurgy Congress & Exhibition : EURO PM2009 : 12th October - 14th October 2009, Copenhagen, Denmark : proceedings. Vol.1 2009 / p. 317-322 : ill

Performance of carbide composites in cyclic loading conditions

Klaasen, Heinrich; Kübarsepp, Jakob; Roosaar, Tõnu; Sergejev, Fjodor; Talkop, Adolf International Powder Metallurgy Congress & Exhibition : EURO PM2008 : 29th September - 1st October 2008, Mannheim, Germany : proceedings. Vol.1 2008 / p. 237-242 : ill

Performance of ceramic-metal composites as tool materials for friction stir welding = Keraamilis-metalsed komposiidid otshöördkeevituse tööriista materjalidena

Kolnes, Mart 2020 https://www.ester.ee/record=b5391663*est <https://digikogu.taltech.ee/et/Item/407d051a-6584-41fe-8c27-2ddcbcd8d902>

Performance of tool materials in blanking = Tööriistamaterjalide toimivus väljalõikestantsimisel

Tšinjan, Aleksei 2012

Permeability of water and oleic acid in composite films of phase separated polypropylene and cellulose stearate blends

Krasnou, Illia; Gardebjer, Sofie; Tarasova, Elvira; Larsson, Anette; Westman, Gunnar; Krumme, Andres Carbohydrate polymers 2016 / p. 450-458 : tab. <https://doi.org/10.1016/j.carbpol.2016.07.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phase, microstructure, and wear behavior of Al₂O₃-reinforced Fe–Si alloy-based metal matrix nanocomposites

Saxena, Akash; **Singh, Neera**; Singh, Bhupendra; Kumar, Devendra; Sadasivuni, Kishor Kumar; Gupta, Pallav; Kumar, Devendra
Proceedings of the institution of mechanical engineers part L Journal of Materials Design and Applications Journal of materials design and applications 2020 / art. 146442071989338, p. 467-480 <https://doi.org/10.1177/1464420719893387> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phenomenological and numerical modelling of short fibre reinforced cementitious composites

Herrmann, Heiko; **Eik, Marika**; Berg, Viktoria; Puttonen, Jari Meccanica 2014 / p. 1985-2000 : ill <https://doi.org/10.1007/s11012-014-0001-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phi 6 bacteriophage inactivation by metal salts, metal powders, and metal surfaces

Molan, Katja; **Rahmani Ahranjani, Ramin**; Krklec, Daniel; Brojan, Miha; Stopar, David Viruses 2022 / art. 204
<https://doi.org/10.3390/v14020204> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photoelectric and photoluminescence properties of CdTe-GaTe composite

Caraman, Iuliana; **Spalatu, Nicolae**; Evtodiev, Igor; Untila, Dumitru; Leontie, Liviu; Caraman, Mihail Physica status solidi (b) 2016 / p. 2515-2522 : ill <https://doi.org/10.1002/pssb.201600485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Physical-chemical interaction in NiAl-MeB₂ systems intended for tribological applications

Umanskyi, Oleksandr; Poliarus, Olena; Ukrainets, Maksym; **Antonov, Maksim** Welding journal 2015 / p. 225-230 : ill <https://aws-p-001-delivery.sitecorecontenthub.cloud/api/public/content/de3281a8c6654d108b8b8dfcdf286c4b?v=1c0c676e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Plate model for multifunctional laminated glass composite panel

Majak, Jüri; **Pohlak, Meelis**; Shvartsman, Boris; **Õunapuu, Erko**; **Kirs, Maarjus** ICCS19 : 19th International Conference on Composite Structures : Sheraton Porto Hotel & Spa, 5-8 September 2016 : proceedings 2016 / p. 140 <http://dx.doi.org/10.15651/978-88-748-8977-8>

Plywood reinforced with volcanic fibre fabric

Kattamanchi, Tanuj; **Kallakas, Heikko**; **Hakonen, Joonas Lauri**; Lõhmus, Rünno Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025 "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 80
<http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

A positively charged composite loose nanofiltration membrane for water purification from heavy metals

Peydayesh, Mohammad; Mohammadi, Toraj; **Nikouzad, Sohail Kordmirza** Journal of Membrane Science 2020 / Art. n. 118205
<https://doi.org/10.1016/j.memsci.2020.118205> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Prediction of abrasive erosion impact wear of composite hardfacings

Kulu, Priit; **Casesnoves, Francisco**; **Simson, Taavi**; **Tarbe, Riho** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 201-206
<https://doi.org/10.4028/www.scientific.net/SSP.267.201> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Preface

Herrmann, Heiko; Schnell, Jürgen Short fibre reinforced cementitious composites and ceramics 2019 / p. v-vi
<https://doi.org/10.1007/978-3-030-00868-0> [Article collection metrics at Scopus](#) [Article at Scopus](#)

Preliminary investigation into tensile characteristics of long flax fibre reinforced composite material

Kers, Jaan; **Peetsalu, Priidu**; **Saarna, Mart**; **Viikna, Anti**; **Krumme, Andres**; Menind, Andres Agronomy research 2010 / S1, p. 107-114 : ill <https://agronomy.emu.ee/vol08Spec1/p08s113.pdf>

Preliminary study of the influence of post curing parameters to the particle reinforced composite's mechanical and physical properties

Aruniit, Aare; **Kers, Jaan**; **Krumme, Andres**; **Poltimäe, Triinu**; **Tall, Kaspar** Materials science = Medžiagotyra 2012 / p. 256-261 : ill <https://matssc.ktu.lt/index.php/MatSc/article/view/2435>

Preparation of cellulose mix-esters and cellulose esters/MWCNT composites in ionic liquids

Tarasova, Elvira; **Kudrjašova, Marina**; **Krumme, Andres** EUPOC-2013 : Polymers and Ionic Liquids, 1-5 September 2013, Gargnano, Italy 2013

Preparation of multiphase lightweight c-BN-based composite

Juhani, Kristjan; **Kimmari, Eduard**; **Kommel, Lembit** International Powder Metallurgy Congress & Exhibition : EURO PM2008 : 29th September - 1st October 2008, Mannheim, Germany : proceedings. Vol.1 2008 / p. 231-236 : ill https://www.researchgate.net/publication/286152881_Preparation_of_multiphase_lightweight_c-BN-based_composite

Preparation of SFRC testing specimen simulated by CFD

Processing and mechanical properties of ZrC-ZrO₂ composites

Voltšihhin, Nikolai; Hussainova, Irina; Kübarsepp, Jakob; Traksmaa, Rainer Engineering materials & tribology XXII 2014 / p. 258-261 <https://doi.org/10.4028/www.scientific.net/KEM.604.258> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Processing of ZrC-TiC composites by SPS

Yung, Der-Liang; Hussainova, Irina; Rodriguez, Miguel Angel; Traksmaa, Rainer Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 94-99 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.94> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Product development problems of statically and dynamically loaded sandwich structures

Pohlak, Meelis; Eerme, Martin; Küttner, Rein OST-03 Symposium on Machine Design 2003 / p. 29-37 : ill

Production of superhard carbon rich boron carbon (B_{11.72}C_{3.28}) based composite in the B₄C-Al-WC-Co-Cu system through SHS and SPS techniques [Electronic resource]

Kommel, Lembit; Tarraste, Marek; Kolnes, Märt; Veinthal, Renno; Kübarsepp, Jakob Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [6] p. : ill. [USB]

Production technology elaboration and characterization of Al-MWCNT, Al-fullerenes and Al-B₄C composites

Kommel, Lembit; Metsvahi, Rainer; Mihhalsenkov, M. Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 651-656 : ill

Properties of retted hemp fibres for reinforcement of composites

Marrot, Laetitia; Alao, Percy Festus; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Mikli, Valdek; Mere, Arvo GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 13 : ill <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Puitplastkomposiidid taaskasutatavatest materjalidest

Kers, Jaan Keskkonnatehnika 2011 / 7, lk. 17-20 : ill https://artiklid.elnet.ee/record=b2438891*est

Pulbermetallurgia ja komposiitmaterjalid : loengukonspekt

Valdma, Leo; Kübarsepp, Jakob 1989 https://www.ester.ee/record=b1210599*est

Pultruding of metal powder filled glass fiber reinforced polymer composites

Rummo, Henri; Veinthal, Renno; Aruniit, Aare Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 48-53 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.48> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Quasicrystalline composites by additive manufacturing

Prashanth, Konda Gokuldoss; Scudino, Sergio Applied Engineering, Materials and Mechanics III : 4th International Conference on Applied Engineering, Materials and Mechanics (4th ICAEMM 2019) 2019 / p. 72-76 <https://doi.org/10.4028/www.scientific.net/KEM.818.72> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Raytraced images for testing the reconstruction of fibre orientation distributions

Eik, Marika; Herrmann, Heiko Proceedings of the Estonian Academy of Sciences 2012 / p. 128-136 : ill

Reactive sintering of ZrC-TiC composites

Yung, Der-Liang; Kollo, Lauri; Hussainova, Irina; Zikin, Arkadi Engineering materials and tribology 2013 / p. 20-25 https://www.researchgate.net/publication/234110368_Reactive_Sintering_of_ZrC-TiC_Composites

Recycled hard metal-base wear-resistant composite coatings

Kulu, Priit; Halling, Jaanus Journal of thermal spray technology 1998 / 2, p. 173-178 : ill

Recycling bitumen for composite material production : Potential applications in the construction sector

Rikmann, Ergo; Mäeorg, Uno; Vaino, Neeme; Pallav, Vello; Järvik, Oliver; Liiv, Jüri Applied Sciences (Switzerland) 2025 / art. 1313 <https://doi.org/10.3390/app15031313>

Recycling of composite plastics = Komposiitplastide ringlus

Kers, Jaan 2006 https://www.ester.ee/record=b2208721*est

Recycling of light weight B₄C based composites

Kommel, Lembit; Kimmari, Eduard Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 199-202 : ill

Reliability of dual compounds “carbide composite+steel” produced by diffusion welding

Klaasen, Heinrich; Kübarsepp, Jakob; Laansoo, Andres; Viljus, Mart International journal of refractory metals and hard materials 2010 / 5, p. 580-586 : ill

Reprocessing technology of composite plastic scrap and properties of materials from recycled plastics

Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Mikli, Valdek Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 2, p. 105-116 : ill

Reuse of reinforced acrylic plastic waste in new composite material development

Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Mikli, Valdek Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 267-271 : ill

Revealing the impact of Hot Isostatic Pressing temperature on the microstructure and mechanical characteristics of Selective Laser Melted CuAlNiMn shape memory alloy

Singh, Shalini; Narayanan, Jinoop Arackal; Dehgahi, Shirin; Qureshi, A. J.; Palani, Iyamperumal Anand; Paul, Christ Prakash; Prashanth, Konda Gokuldoss Materials letters 2024 / art. 136452 <https://doi.org/10.1016/j.matlet.2024.136452> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting

Wang, Pei; Eckert, Jürgen; Prashanth, Konda Gokuldoss; Kaban, Ivan; Xi, L.; Scudino, Sergio Transactions of nonferrous metals society of China 2020 / p. 2001-2034 [https://doi.org/10.1016/S1003-6326\(20\)65357-2](https://doi.org/10.1016/S1003-6326(20)65357-2) http://tnmsc.csu.edu.cn/paper/paperView.aspx?id=paper_321576 [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Rheological and mechanical properties of poly(lactic) acid- and polyethylene-based cellulosic composites

Šumigin, Dmitri; Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Meier, Pille BIOCOMP 2010 : 10th Pacific Rim Bio-based Composites Symposium : October 5th-8th, 2010, Banff, Alberta, Canada 2010 / p. 310

Rheological and mechanical properties of poly(lactic) acid/cellulose and LDPE/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Meier, Pille Materials science = Medžiagotyra 2011 / p. 32-37 : ill

Rohepööre autotööstuses: mis ikkagi saama hakkab?

Hanson, Martin; Kübarsepp, Jakob Särtsakad kilomeetrid 2024 [Rohepööre autotööstuses: mis ikkagi saama hakkab?](#) [Rohepööre autotööstuses: mis ikkagi saama hakkab?](#)

Roughness of TiN and nanocomposite nc-Ti1-xAlxN/[alpha]-Si3N4 surface evaluated by means of AFM

Podgurski, Vitali; Nisumaa, Reet; Gregor, Andre; Adoberg, Eron; Kulu, Priit Latvijas kimijas žurnals = Latvian journal of chemistry 2008 / 1, p. 62-66 : ill

Selected aspects of current challenges in composite product development for automotive and aerospace industry

Czichon, Steffen; Köhnke, Jessica; Preisler, Andreas; Herranen, Henrik Composite materials and structures in aerospace engineering 2016 / p. 51-63 <http://dx.doi.org/10.4028/www.scientific.net/AMM.828.51>

Selective laser manufacturing of Ti-based alloys and composites : impact of process parameters, application trends, and future prospects

Singh, Nirmal Kumar; Hameed, Pearlin; Ummethala, Raghunandan; Manivasagam, Geetha; Prashanth, Konda Gokuldoss; Eckert, Juergen H. Materials Today Advances 2020 / Art. 100097 <https://doi.org/10.1016/j.mtadv.2020.100097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting and spark plasma sintering: a perspective on functional biomaterials

Rahmani Ahranjani, Ramin; Lopes, Sergio Ivan; Prashanth, Konda Gokuldoss Journal of functional biomaterials 2023 / art. 521, 33 p. : ill <https://doi.org/10.3390/jfb14100521> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting for manufacturing of MoSi2/Si3N4 composites

Minasyan, Tatevik; Rodriguez, Miguel Angel; Liu, Le; Aghayan, Marina; Kollo, Lauri; Hussainova, Irina ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 77-78 <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

Selective laser melting of ceramic composites

Aydinyan, Sofiya; Liu, Le; Minasyan, Tatevik; Hussainova, Irina XVI Conference and Exhibition Of The European Ceramic Society : abstract book 2019 / p. 22

Selective laser melting of Ti/cBN composite

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Antonov, Maksim; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed

papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 257-262 : ill <https://www.scientific.net/KEM.799.257> https://www.ester.ee/record=b5235278*est
<https://doi.org/10.4028/www.scientific.net/KEM.799.257> Conference proceeding at Scopus Article at Scopus

Selective laser melting of TiB₂-Ti composite with high content of ceramic phase

Liu, Le; Minasyan, Tatevik; Ivanov, Roman; Aydinyan, Sofiya; Hussainova, Irina Ceramics international 2020 / p. 21128-21135
<https://doi.org/10.1016/j.ceramint.2020.05.189> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of Ti-B-Si system produced by SHS [Online resource]

Aydinyan, Sofiya; Liu, Le; Hussainova, Irina Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L06
http://2018.cimtec-congress.org/abstracts_focused_session_cb-10

Selective laser sintering of combustion synthesized titanium diboride based composites

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / art. 3987459 [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

Selective photocurrent generation in HfO₂ and carbon nanotube hybrid nanocomposites under Ultra-Violet and visible photoexcitations

Rauwel, Protima; Galeckas, Augustinas; Ducroquet, Frédérique; Rauwel, Erwan Materials Letters 2019 / p. 45 - 48
<https://doi.org/10.1016/j.matlet.2019.03.030> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Short fibre reinforced cementitious composites and ceramics

2019 <https://doi.org/10.1007/978-3-030-00868-0>

SHS produced TiB₂-Si powders for selective laser melting of ceramic-based composite

Liu, Le; Aydinyan, Sofiya; Minasyan, Tatevik; Hussainova, Irina Applied sciences 2020 / art. 3283, 12 p. : ill
<https://doi.org/10.3390/app10093283> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

SHS-derived powders obtained by coupled reactions and thermal dilution for subsequent consolidation

Aydinyan, Sofiya; Hussainova, Irina; Kharatyan, Suren CIMTEC 2022 : 15th International Ceramics Congress (June 20-24) CIMTEC 2022 : 9th Forum on New Materials (June 25-29) 2022 http://2022.cimtec-congress.org/focused-session-ca-11_1

Simulation of detecting contact nonlinearity in carbon fibre polymer using ultrasonic nonlinear delayed time reversal

Lints, Martin; Salupere, Andrus; Dos Santos, Serge ACTA acustica united with acustica 2017 / p. 978-986 : ill
<https://doi.org/10.3813/AAA.919127>

Simulation of solitary wave propagation in carbon fibre reinforced polymer

Lints, Martin; Salupere, Andrus; Dos Santos, Serge Proceedings of the Estonian Academy of Sciences 2015 / p. 297-303 : ill
<https://doi.org/10.3176/proc.2015.3.14> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sintering behavior of ZrC-TiC-MoSi₂ ceramic composite [Online resource]

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Cygan, Slawomir; Hussainova, Irina Explosive Production of New Materials : Science, Technology, Business, and Innovations 2018 / p. 148-150 : ill
http://www.ism.ac.ru/events/EPNM2018/EPNM2018_BookofPapers.pdf <http://dx.doi.org/10.30826/EPNM18-052>

Sintering of zirconium carbide-based composites

Yung, Der-Liang; Voltšihhin, Nikolai; Hussainova, Irina; Kollo, Lauri; Traksmäa, Rainer Proceedings of EuroPM2012 – Hardmetals : Cermets and Ceramics 2012 / p. 83-88 : ill
https://www.researchgate.net/publication/250254543_Sintering_of_zirconium_carbide-based_composites

Sliding wear behaviour of alumina/nickel nanocomposites processed by a conventional sintering route

Rodriguez-Suarez, T.; Bartolome, Jose F.; **Smirnov, Anton**; Lopez-Esteban, S.; Torrecillas, R.; Moya, J.S. Journal of the European Ceramic Society 2011 / p. 1389-1395 : ill

Sliding wear behaviour of basalt containing composites with additions of either metallic and/or ceramic phases

Antonov, Maksim; Goljandin, Dmitri; Andreev, A.; Voltšihhin, Nikolai; Hussainova, Irina BaltTrib 2013 : VII International Scientific Conference : proceedings 2013 / p. 67-72 : ill

Sliding wear of composite stainless steel hardfacing under room and elevated temperature

Surženkov, Andrei; Baroninš, Janis; Viljus, Mart; Traksmäa, Rainer; Kulu, Priit Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 195-200 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.195> Conference proceedings at Scopus Article at Scopus

Sliding wear performance of in-situ spark plasma sintered Ti-TiB_w composites at temperatures up to 900 °C

Kumar, Rahul, 1993-; Antonov, Maksim; Liu, Lei; Hussainova, Irina Wear 2021 / art. 203663, 9 p.: ill

Sol-Gel approach to the calcium phosphate nanocomposites

Beganskiene, Aldona; Stankeviciute, Zivile; Malakauskaite, Milda; **Bogdanoviciene, Irma; Mikli, Valdek; Tõnsuaadu, Kaia;** Kareiva, Aivaras Nanostructured materials and nanotechnology VII : a collection of papers presented at the 37th International Conference on Advanced Ceramics and Composites, January 27-February 1, 2013, Daytona Beach, Florida 2014 / p. 3-14 : ill <https://doi.org/10.1002/9781118807828.ch1> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Sol-Gel Approach to the Calcium Phosphate Nanocomposites : (ICACC-S7-P091-2013)

Beganskiene, Aldona; **Bogdanoviciene, Irma; Tõnsuaadu, Kaia** 37th International Conference and Exposition on Advanced Ceramics and Composites : abstracts book : January 27-February 1, 2013, Daytona Beach, Florida 2013 / p. 102

Sol-gel approach to the calcium phosphate nanocomposites [Electronic resource]

Beganskiene, Aldona; **Bogdanoviciene, Irma; Mikli, Valdek; Tõnsuaadu, Kaia** Proceedings of the 37th International Conference on Advanced Ceramics and Composites : January 27-February 1, 2013, Hilton Daytona Beach Resort and Ocean Center, Daytona Beach, Florida, USA 2013 / [10] p. : ill [CD-ROM]

Solid particle erosion of the Cr₃C₂-Ni metalmatrix composites

Antonov, Maksim; Hussainova, Irina; Pirso, Jüri OST-01 Symposium on Machine Design : Tallinn, Estonia, October 4-5, 2001 : proceedings 2001 / p. 233-243 : ill

Solid phase's transformations in boron carbide based composites during heat treatment

Kommel, Lembit; Kimmari, Eduard Solid state phenomena 2008 / p. 175-180

Solid state processing of aluminum matrix Composites reinforced with nanoparticulate materials

Leparoux, Marc; **Kollo, Lauri**; Kwon, Hansang; **Kallip, Kaspar**; Babu, N. Kishore; AIOgab, Khaled A.; Talari, Mahesh Kumar Advanced engineering materials 2018 / art. 1800401, 18 p.: ill <https://doi.org/10.1002/adem.201800401> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Some comments on the theory of short fibre reinforced materials

Herrmann, Heiko; Eik, Marika Proceedings of the Estonian Academy of Sciences 2011 / 3, p. 179-183 : ill

Spark plasma sintering of combustion synthesized TiB₂-Si composite

Liu, Le; Aydinyan, Sofiya; Minasyan, Tatevik; Baroninš, Janis; Antonov, Maksim; Kharatyan, Suren; **Hussainova, Irina** Ceramics in modern technologies 2019 / p. 59-66 <https://doi.org/10.29272/cmt.2018.0009>

Spark plasma sintering of layered γ -Al₂O₃/graphene reinforced nanocomposites

Saffarshamshirgar, Ali; Ivanov, Roman; Hussainova, Irina Proceedings of the Estonian Academy of Sciences 2019 / p. 140–144 : ill <https://doi.org/10.3176/proc.2019.2.04> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-140-144.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark plasma sintering of Ti₆Al₄V metal matrix composites: Microstructure, mechanical and corrosion properties

Singh, Neera; Ummethala, Raghunandan; Karamched, Phani S.; Sokkalingam, Rathinavelu; Gopal, Vasanth; Manivasagam, G.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2021 / art. 158875, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2021.158875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and mechanical properties of laminate-type thin film SWCNT/SiOXNY composites

Shmagina, Elizaveta; Volobujeva, Olga; Antonov, Maksim; Bereznev, Sergei SICT 2024, PLASMA TECH 2024 and TRIBOLOGY 2024 : JOINT international conferences : book of abstracts 2024 / p. 142 <https://www.setcor.org/conferences/tribology-2024/conference-program>

Structural and optical properties of laminate-type thin film SWCNT composites in a silicon oxynitride matrix obtained by low-temperature curing methods

Shmagina, Elizaveta; Kasikov, Aarne; **Volobujeva, Olga; Bereznev, Sergei** Symposium I: Nano-engineered coatings and thin films: from fundamentals to applications 2024 <https://secure.key4events.com/key4register/AbstractList.aspx?e=1689&preview=1&aig=-1&ai=57371>

Structural, mechanical, and optical properties of laminate-type thin film SWCNT/SiOxNy composites

Shmagina, Elizaveta; Antonov, Maksim; Kasikov, Aarne; **Volobujeva, Olga;** Khabushev, Eldar M.; Kallio, Tanja; **Bereznev, Sergei** Nanomaterials 2024 / art. 1806 <https://doi.org/10.3390/nano14221806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural-selective wearing model of cemented non-tungsten carbide composites

Valdma, Leo; Talving, T.; **Kübarsepp, Jakob; Kallas, Paul; Annuka, Harri** Proceedings of Japan International Tribology Conference 1990 / p. 1-3

Structure and properties of boron nitride based composite produced by SHS method

Kommel, Lembit; Kūbarsepp, Jakob; Hussainova, Irina; Kimmari, Eduard Fifth International Conference on Composite Science and Technology : ICCST/5 : 1-3 February 2005, Sharjah, United Arab Emirates : proceedings 2005 / p. 461-466 : ill

Structure and properties of HVOF-sprayed and PTA-welded cermet hard phase reinforced Fe-matrix based coatings

Kulu, Priit; Zikin, Arkadi; Surženkov, Andrei; Tarbe, Riho 2nd Mediterranean Conference & New Challenges on Heat Treatment and Surface Engineering : Dubrovnik-Cavtat, Croatia, 11-14 June 2013 2013 / p. 37-44

<https://www.inderscienceonline.com/doi/abs/10.1504/IJMM.2014.061054>

Studies of structural and morphological properties of cuprate conductive ceramics after electrochemical treatment in alkaline electrolyte

Stoyanova-Ivanova, Angelina; Lilov, Peter; Vasev, Alexander; Stoyanova, Antonina; Ivanova, Galia; Karashanova, Daniela; **Mikli, Valdek** Materials chemistry and physics 2020 / art. 121934 <https://doi.org/10.1016/j.matchemphys.2019.121934> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Study of axial flux stator structures in additive manufacturing material and soft magnetic composite

Pierluigi, Amoroso; Poskovic, Emir; **Tiismus, Hans**; Quercio, Michele; Ferraris, Luca; Tenconi, Alberto 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700312>

Study of devulcanised crumb rubber-peat bio-based composite for environmental applications

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Irtiseva, Kristine; **Goljandin, Dmitri** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 148-152 : ill <https://www.scientific.net/KEM.799.148> https://www.ester.ee/record=b5235278*est

<https://doi.org/10.4028/www.scientific.net/KEM.799.148> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Study of reduction mechanism of WO₃+CuO mixture by combined Mg/C reducer - influence of high heating rate

Nazaretyan, Khachik; Zargaryan, Armen; **Aydinyan, Sofiya**; Kharatyan, Suren JTACC+V4 : 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference : June 6–9, 2017, Budapest, Hungary : Book of Abstracts 2017 / p. 206-207 <https://static.akcongress.com/downloads/jtacc/jtacc2017-book-of-abstracts.pdf>

Study of submerged and plasma arc welded composite hardfacings with a novel Cr₃C₂-Ni reinforcement

Bendikiene, Regita; **Surženkov, Andrei**; Tkachivskyi, Dmytro; Juhani, Kristjan; Viljus, Mart; Traksmas, Rainer; Antonov, Maksim; **Kulu, Priit** Proceedings of the Estonian Academy of Sciences 2019 / p. 150–157 : ill <https://doi.org/10.3176/proc.2019.2.06> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-150-157.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Studying of internal and rheological properties of polyethylene-oil shale ash composites

Süld, Tiia-Maaja; Kaljuvee, Tiit; Viikna, Anti The 28th International Conference of Polymer Processing Society (PPS-28), Pattaya, Thailand, December 11-14, 2012 : abstract book 2012 / p. 609

Suitability of devulcanized crumb rubber for oil spills remediation

Lapkovskis, Vjaceslavs; Mironovs, Viktors; **Goljandin, Dmitri** Energy procedia 2018 / p. 351-357 : ill

<https://doi.org/10.1016/j.egypro.2018.07.103> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Superconductivity and magnetic studies of bulk Y₁₂₃/BaCuO₂ composite

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Georgieva, S.; **Mikli, Valdek** Romanian journal of physics 2018 / art. 602, 15 p. : ill http://www.nipne.ro/rjp/2018_63_1-2/RomJPhys.63.602.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Superhard B₄C-ReB₂ composite by SPS of microwave synthesized nanopowders

Mnatsakanyan, R.; Davtyan, D.; **Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina** Materials letters 2021 / art. 129163, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.129163> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Superhard CBN-AL₂O₃ composites for cutting tool applications

Kumar, Rahul, 1993-; Antonov, Maksim Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

Surface fatigue of Al-metal matrix composites at impact loading

Saarna, Mart; Sergejev, Fjodor; Gomon, Jaana-Kateriina; Kollo, Lauri; Leparoux, Marc Engineering materials and tribology 2013 / p. 119-124 : ill

Sustainable fabrication of polypropylene-postconsumer cotton composite materials : circularity, characterization, mechanical testing, and tribology

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Viljus, Mart; Krasnou, Illia Materials today sustainability 2023 / art. 100344, 16 p. : ill <https://doi.org/10.1016/j.mtsust.2023.100344> [Journal metrics at Scopus](#) [Article at Scopus](#)

Synergistic effect of Ag and MoS₂ on high-temperature tribology of self-lubricating NiCrBSi composite coatings by laser metal deposition

Kumar, Rahul, 1993-; Antonov, Maksim; Varga, Markus; Hussainova, Irina; Rodriguez Ripoll, Manel Wear 2023 / art. 205114 <https://doi.org/10.1016/j.wear.2023.205114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synergistic strengthening mechanisms of dual-phase (TiN+AlN) reinforced aluminum matrix composites prepared by laser powder bed fusion

Wang, Ruiqi; Xi, Lixia; Feng, Lili; Sarac, Baran; Prashanth, Konda Gokuldoss; Eckert, Jürgen; Gu, Dongdong 3D printing and additive manufacturing 2024 / p. 907-918 <https://doi.org/10.1089/3dp.2023.0004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and characterization of synergically acting antifungal silver-chitosan nanocomposites for biomedical applications

Kaarma, Laura; Kahru, Anne; Kasemets, Kaja Toxicology Letters 2025 / P22-04 ; p. S269-S270 <https://doi.org/10.1016/j.toxlet.2025.07.634>

Synthesis and consolidation of Mo-Cu composite nanopowder [Online resource]

Minasyan, Tatevik; Kirakosyan, Hasmik; Aydinian, Sofiya; Liu, Le; Hussainova, Irina; Kharatyan, Suren Explosive Production of New Materials : Science, Technology, Business, and Innovations 2018 / p. 151-153 : ill http://www.ism.ac.ru/events/EPNM2018/EPNM2018_BookofPapers.pdf <http://dx.doi.org/10.30826/EPNM18-053>

Synthesis of an WC-Co composite material from the waste WC-Co bulk hardmetal

Joost, Renee; Pirso, Jüri; Viljus, Mart 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 28

Synthesis of Ni-W nanopowders from oxide and salt precursors in combustion mode by using thermo-kinetic coupling approach [Online resource]

Zakaryan, Marieta; Aydinian, Sofiya; Kharatyan, Suren Explosive Production of New Materials : Science, Technology, Business, and Innovations 2018 / p. 298-300 : ill http://www.ism.ac.ru/events/EPNM2018/EPNM2018_BookofPapers.pdf <http://dx.doi.org/10.30826/EPNM18-103>

Synthesis of superhard lightweight composites and improvement of their properties via chemical processing

Kommel, Lembit; Tamm, Toomas; Metsvahi, Raido; Nokkur, Kadri Frontiers in materials processing, applications, research and technology : select proceedings of FIMPART 2015 2018 / p. 53-61 : ill https://doi.org/10.1007/978-981-10-4819-7_6 http://www.ester.ee/record=b4762647*est

ZrC-based and ZrC-doped composites for high-temperature and wear applications = ZrC baasil ja ZrC-ga legeritud komposiitmaterjalid rakendusteks kõrgtemperatuursetes ja kulumistingimustes

Yung, Der-Liang 2016 http://www.ester.ee/record=b4621174*est

TalTechi teadlase õnnestus valmistada materjal, mida rohepöörde käigus on pikisilmi oodatud

geenius.ee 2024 [TalTechi teadlase õnnestus valmistada materjal, mida rohepöörde käigus on pikisilmi oodatud](https://digikogu.taltech.ee/et/Item/3dad7b12-4a7a-4c9d-8162-30388c52bf5e) <https://digikogu.taltech.ee/et/Item/3dad7b12-4a7a-4c9d-8162-30388c52bf5e>

TalTechi teadlaste prinditud luu päästis noore naise jala amputeerimisest [Võrguväljaanne]

Himma, Marju novaator.err.ee 2019 / fot [TalTechi teadlaste prinditud luu päästis noore naise jala amputeerimisest](#)

TalTechi teadur arutleb: millal käib “suur pauk”, mis kiirendab tööstuses alternatiivsete materjalide kasutamist?

Tarraste, Marek digi.geenius.ee 2023 [TalTechi teadur arutleb: millal käib “suur pauk”, mis kiirendab tööstuses alternatiivsete materjalide kasutamist?](#)

Teaduse elutööpreemiad saavad Raivo Uibo ja Jakob Kübarsepp = Научные премии за дело всей жизни присуждены специалистам в порошковой металлургии и клинической иммунологии

ohtuleht.ee 2024 [Teaduse elutööpreemiad saavad Raivo Uibo ja Jakob Kübarsepp Научные премии за дело всей жизни присуждены специалистам в порошковой металлургии и клинической иммунологии](#)

Technological peculiarities of chromium carbide-based iron alloy bonded cermet

Kolnes, Märt; Kübarsepp, Jakob; Viljus, Mart; Traksmäa, Rainer Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 82-86 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.82> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Technology and characterization of composite thermal spray powders

Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit Materials science = Medžiagotyra 2005 / 4, p. 385-389 : ill

Technology design of composite parts

Karjust, Kristo; Küttner, Rein; Pohlak, Meelis Journal of achievements in materials and manufacturing engineering 2007 / 2, p. 23-26 : ill <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=7a2f5ebd0bd5e7c08ff1cebc18a438a5c89e2231>

Tehnikaülikooli laborisse saabus seade läbi akna

postimees.ee 2023 [TalTechi uus 1,5-tonnine seade tõsteti hoonesse läbi akna](#) [Tehnikaülikooli laborisse saabus seade läbi akna](#)

Tehnoplastid : plastide üldiseloostumus, plastide valik, plastide mehaanilised teimid, firmaplastid

1999 https://www.ester.ee/record=b1222251*est

Teras kulumiskindlate komposiitide tehnoloogias

Kübarsepp, Jakob Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 108-121 : ill., fot https://www.ester.ee/record=b5208765*est

The determination of mechanical properties of orthotropic composites

Lasn, Kaspar; Klauson, Aleksander; Chati, F.; Decultot, Dominique XVI International Conference Mechanics of Composite Materials : book of abstracts 2010 / p. 117

The effect of approximation accuracy of the orientation distribution function on the elastic properties of short fibre reinforced composites

Eik, Marika; Puttonen, Jari; Hermann, Heiko Composite structures 2016 / p. 12-18 : ill <https://doi.org/10.1016/j.compstruct.2016.03.046>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of test conditions on the erosion resistance of cermets

Antonov, Maksim; Hussainova, Irina International Symposium on Machine Design OST 2001 : [Tallinn, Estonia, October 4-5, 2001] : abstracts 2001 / [1] p

The impact resistance of highly densified metal alloys manufactured from gas-atomized pre-alloyed powders

Rahmani Ahranjani, Ramin; Antonov, Maksim; Prashanth, Konda Gokuldoss Coatings 2021 / art. 216, 14 p. : ill <https://doi.org/10.3390/coatings11020216> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of refractory composition in binder phase on wear properties of boron carbide aluminium composites

Kommel, Lembit; Traksmäa, Rainer; Kimmari, Eduard Abstracts of 10th Nordic Symposium on Tribology NORDTRIB 2002 / p. 97

The influence of refractory composition in binder phase on wear properties of boron carbide aluminium composites [Electronic resource]

Kommel, Lembit; Traksmäa, Rainer; Kimmari, Eduard Proceedings of 10th Nordic Symposium on Tribology NORDTRIB 2002 / Ref. 18 [CD-ROM]

The magnetic cores from magnetically soft powder composites

Laansoo, Andres; Käerdi, Helmo Tallinna Tehnikaülikooli Toimetised 1994 / lk. 53-60: ill

The microstructure and properties of fine-grained cermets

Viljus, Mart 2003

The preparation of TiC/TiN composites by selective laser melting

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 165-170 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.165> <https://doi.org/10.4028/www.scientific.net/KEM.799.165>
[Conference proceeding at Scopus](#) [Article at Scopus](#)

The production technology considerations of large composite parts

Karjust, Kristo; Küttner, Rein; Pohlak, Meelis Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [1] 2008 / p. 251-256 : ill https://www.researchgate.net/publication/289439727_The_production_technology_considerations_of_large_composite_parts

The science of sinter-HIP : when to turn on the gas

Yung, Der-Liang; Tarraste, Marek; Hussainova, Irina TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

The structure and properties forming in boron carbide aluminium composites during processing

Kommel, Lembit; Hussainova, Irina; Kimmari, Eduard Proceedings of World Congress on Powder Metallurgy and Particulate Materials, USA. Vol. 6 2002 / p. 182-187

The wear of PVD coated elements in oscillation motion at high temperature

Michalczewski, Remigiusz; Kalbarczyk, Marek; Slomka, Zbigniew; **Liu, Le; Antonov, Maksim; Hussainova, Irina** Proceedings of the Estonian Academy of Sciences 2021 / p. 500-507 : ill <https://doi.org/10.3176/proc.2021.4.18> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal and mechanical properties of composites based on treated lignocellulosic fibres

Süld, Tiia-Maaja; Viikna, Anti; Sassi, Riin Book of abstracts : MEDICTA 2007 : the 8th Mediterranean Conference on Calorimetry and Thermal Analysis : September 25th - September 29th, 2007, Palermo, Italy 2007 / p. 236

Thermal and microstructural analysis of doped alumina nanofibers

Aghayan, Marina; Gasik, Michael; Hussainova, Irina; Rubio-Marcos, Fernando; Kollo, Lauri; Kübarsepp, Jakob Thermochemica acta 2015 / p. 43-48 : ill <https://doi.org/10.1016/j.tca.2015.01.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal and rheological properties of composites based on poly(lactic acid) and cellulose derivatives

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 127

Thermal degradation and mechanical properties of biofiber-reinforced polyethylene composites

Süld, Tiia-Maaja; Viikna, Anti XXVIII National Conference on Calorimetry, Thermal Analysis and Chemical Thermodynamics : Milan, Italy, December 11-15, 2006 2006 / p. 65

Thermal performance of two different PV-ETICS integration solutions in a real environment

Heim, Dariusz; Knera, Dominika; Krempski-Smejda, M.; Wieprzkowicz, Anna; **Kalamees, Targo** Journal of Physics: Conference Series 2023 / 8 p <https://doi.org/10.1088/1742-6596/2654/1/012098> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Thermal properties of calcium-aluminate based materials

Kulu, Priit; Goljandin, Dmitri; Traksmaa, Rainer; Kaljuvee, Tiit; Gregor, Andre Proceedings of the Estonian Academy of Sciences 2021 / p. 508-515 : ill <https://doi.org/10.3176/proc.2021.4.19> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal properties of calcium-aluminate based materials

Kulu, Priit; Goljandin, Dmitri; Traksmaa, Rainer; Kaljuvee, Tiit; Gregor, Andre IOP conference series : materials science and engineering 2021 / art. 012028, 7 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012028>

Thermal shock behaviour of cermets

Antonov, Maksim; Pirso, Jüri; Hussainova, Irina; Klug, Markus Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 75

Thermal, mechanical, and acoustic properties of polydimethylsiloxane filled with hollow glass microspheres

Vlassov, Sergei; **Oras, Sven**; Timusk, Martin; Zadin, Veronika; Tiirats, Tauno; Sosnin, Ilya M.; Lõhmus, Rünno; Linarts, Artis; Kyriatsakis, Andreas; Dorogin, Leonid M. Materials 2022 / art. 1652 : ill <https://doi.org/10.3390/ma15051652> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermally induced cracking in aluminum/boron carbide composite

Kimmari, Eduard; Kommel, Lembit Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 467-472 : ill https://www.researchgate.net/publication/268056237_Thermally_induced_cracking_in_aluminumboron_carbide_composite

Thermoreactive polymer composite with high particulate filler content = Suure pulbrilise täiteaine sisaldusega termoreaktiivne polümeerkomposiit

Aruniit, Aare 2014 http://www.ester.ee/record=b3092370*est

3D printed metal and metal-ceramic cellular lattice structures for wear and thermoacoustic applications = 3D prinditud metall- ja metall-keramised kärgvõre struktuurid triboloogilistele- ja termoakustilistele rakendustele

Holovenko, Yaroslav 2019 <https://digi.lib.ttu.ee/i/?12289>

Ti6Al7Nb–TiB nanocomposites for ortho-implant applications

Singh, Neera; Edachery, Vimal; Rajput, Monika; Chatterjee, Kaushik; Kailas, Satish V.; **Prashanth, Konda Gokuldoss** Journal of materials research 2022 / p. 2525–2535 <https://doi.org/10.1557/s43578-022-00578-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ti-B based composites by spark plasma sintering and selective laser melting = Sädepaagutus- ja selektiivse lasersulatus-tehnoloogia abil valmistatud Ti-B baasil komposiitmaterjalid

Liu, Le 2021 https://www.ester.ee/record=b5460101*est <https://digikogu.taltech.ee/et/Item/2a4de866-52a3-4bef-8c4e-e136c89285a3> <https://doi.org/10.23658/taltech.47/2021>

Time-effective synthesis of rhombohedral CuAlO₂ from mesoporous alumina substrate

Saffarshamshirgar, Ali; Aghayan, Marina; Tripathi, Tripurari S.; Karppinen, Maarit; Gasik, Michael; **Hussainova, Irina** Materials & design 2018 / p. 48-55 : ill <https://doi.org/10.1016/j.matdes.2018.03.031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Time-effective synthesis of rhombohedral CuAlO₂ from mesoporous alumina substrate [Online resource]

Saffarshamshirgar, Ali; Aghayan, Marina; Tripathi, Tripurari S.; Karppinen, Maarit; Gasik, Michael; **Hussainova, Irina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmtdk.ut.ee/teesid-2018/>

Time-efficient automated analysis for fibre orientations in steel fibre reinforced concrete

Pastorelli, Emiliano; Herrmann, Heiko Proceedings of the Estonian Academy of Sciences 2016 / p. 28-36 : ill <https://doi.org/10.3176/proc.2016.1.02> https://artiklid.elnet.ee/record=b2760711*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Toughness characteristics of carbide composites

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 154-156 : ill

Toughness of carbide composites and their durability in application

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina Euro PM 2002 : European Conference on Hard Materials and Diamond Tooling, Lausanne, Switzerland, October 7-9th 2002 : hard materials proceedings 2002 / p. 240-245 : ill

Toward high temperature tough ceramics

Hussainova, Irina; Yung, Der-Liang; **Voltšihhin, Nikolai; Traksmaa, Rainer;** Hannula, Simo-Pekka ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 / [8] p <http://www.escm.eu.org/eccm15/data/assets/178.pdf>

Tribological and circular economy aspects of polypropylene/cotton fibre hybrid composite

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Kumar, Rahul, 1993-; Kamboj, Nikhil Kumar; Rahmani Ahranjani, Ramin; Viljus, Mart; Ahmad, Tahir; **Krumme, Andres; Krasnou, Illia** Proceedings of the Estonian Academy of Sciences 2022 / p. 186-193 : ill <https://doi.org/10.3176/proc.2022.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological characteristics of copper based composites with Al₂O₃ particles at various temperatures

Hvizdoš, Pavol; Besterici, Michal; **Kulu, Priit;** Kavačkaj, T. High temperature materials and processes 2013 / p. 437-442 <https://doi.org/10.1515/htmp-2012-0161> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological characteristics of micro- and nano-composites Cu-Al₂O₃ at room and elevated temperatures

Hvizdoš, Pavol; Besterici, Michal; **Kulu, Priit** High temperature materials and processes 2011 / p. 573-577

Tribological parameters of copper-alumina composite

Hvizdoš, Pavol; **Kulu, Priit;** Besterici, Michal Engineering materials and tribology 2013 / p. 191-196 https://www.researchgate.net/publication/271863555_Tribological_Parameters_of_Copper-Alumina_Composite

Tribological properties of selective laser melted Al₁₂Si alloy

Rathod, H.J.; Nagaraju, T.; **Prashanth, Konda Gokuldoss;** Ramamurty, U. Tribology international 2019 / p. 94-101 : ill <https://doi.org/10.1016/j.triboint.2019.04.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological properties of the Cr₃C₂-Ni metal-matrix composites

Hussainova, Irina; Pirso, Jüri EUROMAT 2001 : 7th European Conference on Advanced Materials and Processes : Rimini, Italy, 10-14 June, 2001 : conference abstracts 2001 / p. 122-123

Tribological properties of the Cr₃C₂-Ni metal-matrix composites [Electronic resource]

Hussainova, Irina; Pirso, Jüri Proceedings of 7th European Conference on Advanced Materials and Processes : EUROMAT 2001 : Italy 2001 / [CD-ROM]

TTÜ teadlased arendavad kosmosetehnika jaoks vajalikke supekondensaatoreid [Võrguväljaanne]

Vähi, Kersti novaator.err.ee 2020 / fot [TTÜ teadlased arendavad kosmosetehnika jaoks vajalikke supekondensaatoreid](#)

Tunneling-percolation behavior of graphene-encapsulated whiskers as electroconductive fillers for ceramics

Hussainova, Irina; Ivanov, Roman; Kale, Sudhir S.; Jasiuk, Iwona Short fibre reinforced cementitious composites and ceramics 2019 / p. 131-139 https://doi.org/10.1007/978-3-030-00868-0_9 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Ultra high-pressure spark plasma sintered ZrC-Mo and ZrC-TiC composites

Yung, Der-Liang; Cygan, Slawomir; **Antonov, Maksim;** Jaworska, Lucyna; **Hussainova, Irina** International journal of refractory metals and hard materials 2016 / p. 201-206 : ill <https://doi.org/10.1016/j.jrmhm.2016.09.014> [Journal metrics at Scopus](#) [Article at Scopus](#)

Ultrahigh pressure spark plasma sintering of ZrC-TiC-MoSi₂ and ZrC-TiC-Si₃N₄ composites [Online resource]

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Cygan, Slawomir; **Hussainova, Irina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmtdk.ut.ee/teesid-2018/>

Use of pyrolysis products of polyethylene wastes in thermoplastic composites

Viikna, Anti Tallinna Tehnikaülikooli Toimetised 1994 / lk. 100-106

Using small punch testing method for the analysis of creep behaviour of Al-Al₄C₃ composites

Besteri, Michal; Dobeš, Ferdinand; Kulu, Priit; **Sülleiova, Katarina** Estonian journal of engineering 2010 / 3, p. 243-254 : ill https://artiklid.elnet.ee/record=b2156237*est

Using stochastic optimization for modelling of the new composite from recycled GFP

Kers, Jaan; Goljandin, Dmitri; Majak, Jüri Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 461-466 : ill

Uudne meetod muudab kommipaberid ja vanad tuulikulabad vesinikuks

Pihl, Olga novaator.err.ee 2024 <https://novaator.err.ee/1609509214/uudne-meetod-muudab-kommipaberid-ja-vanad-tuulikulabad-vesinikuks>

Wavelet based discretization technique for analysis and design of composite structures

Majak, Jüri; Kers, Jaan; Pohlak, Meelis; Eerme, Martin; Luiga, K. The 18th International Conference on Composite Materials. Composite materials : key to the future 2011 / [6] p

Waves in materials with microstructure : numerical simulation

Berezovski, Mihhail; Berezovski, Arkadi; Engelbrecht, Jüri International Conference on Complexity of Nonlinear Waves : October 5-7, 2009 : book of abstracts 2009 / p. 9

Wear and corrosion resistance of a laser powder bed fused AZ91D magnesium matrix composite with TiC reinforcement

Xi, Lixia; Tian, Songmao; Zhang, Dong; Gu, Dongdong; Ramasamy, Parthiban; **Prashanth, Konda Gokuldoss;** Eckert, Jürgen Materials & Design 2025 / art. 114263 <https://doi.org/10.1016/j.matdes.2025.114263>

Wear behaviour of Cr₃C₂-Ni cermet reinforced hardfacings

Bendikiene, Regita; Ciuplys, Antanas; Sertvytis, Rolandas; **Surženkov, Andrei; Tkachivskyi, Dmytro; Viljus, Mart; Traksmas, Rainer; Antonov, Maksim; Kulu, Priit** Journal of materials research and technology 2020 / p. 7068-7078 : ill <https://doi.org/10.1016/j.jmrt.2020.05.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wear performance of WC- and TiC- based ceramic-metallic composites

Kübarsepp, Jakob; Klaasen, Heinrich; Tšinjan, Aleksei; Roosaar, Tõnu; Annuka, Harri Proceedings of VI International Scientific Conference BALTRIB 2011 2011 / p. 150-155

Wear performance of WC- and TiC-based ceramic and metal composites

Roosaar, Tõnu; Kübarsepp, Jakob; Klaassen, Heinrich Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 28

Wear performance of WC-and TiC-based ceramic-metallic composites = WC- ja TiC-baasil keraamilis-metallsete komposiitide kulumiskindlus

Roosaar, Tõnu 2010 https://www.ester.ee/record=b2634532*est

Wear resistance analysis of duplex interpenetrating ceramic composites via in-situ vibration monitoring

Kariminejad, Arash; Auriemma, Fabio; Antonov, Maksim; Klimczyk, Piotr; Hussainova, Irina International journal of refractory metals and hard materials 2026 / art. 107454 <https://doi.org/10.1016/j.jrmhm.2025.107454>

Wear resistance and mechanisms of composite hardfacings at abrasive impact erosion wear

Surženkov, Andrei; Viljus, Mart; Simson, Taavi; Tarbe, Riho; Saarna, Mart; Casesnoves, Francisco Journal of physics : conference series 2017 / art. 012060, p. 1-10 : ill <https://doi.org/10.1088/1742-6596/843/1/012060> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Wear resistance and selection of steels, hardmetals and hardfacings for abrasive wear conditions

Kulu, Priit; Tarbe, Riho; Saarna, Mart; Surženkov, Andrei; Peetsalu, Priidu; Talviste, Kristofer International journal of microstructure and materials properties 2015 / p. 101-113 <https://doi.org/10.1504/IJMMMP.2015.068718> [Journal metrics at Scopus](#) [Article at Scopus](#)

Wear resistance behavior of light-weight composites

Kommel, Lembit; Kimmari, Eduard Abstracts of the XVI-th International Baltic Conference "Engineering Materials & Baltmattrib" :

Wear resistance influencers of particle reinforced polymer composite

Aruniit, Aare; Kers, Jaan; Krumme, Andres; Antonov, Maksim; Allikas, Georg; Herranen, Henrik; Pabut, Ott Proceedings of 19th International Conference on Composite Materials (ICCM19) 2013

Wear resistance of (Diamond-Ni)-Ti6Al4V gradient materials prepared by combined selective laser melting and spark plasma sintering techniques

Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri Advances in tribology 2019 / art. 5415897, 12 p. : ill

<https://doi.org/10.1155/2019/5415897> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wear resistant self-fluxing alloy based TiC-NiMo and Cr2C3-Ni hardmetal particles reinforced composite coatings

Surženkov, Andrei; Vallikivi, Ahto; Mikli, Valdek; Viljus, Mart; Vilgo, Timo; Kulu, Priit Proceedings of the 2nd International Scientific Conference Manufacturing Engineering & Management 2012 : ICMEM 2012 2012 / p. 33-36 : ill

https://www.researchgate.net/publication/262731588_WEAR_RESISTANT_SELF-FLUXING_ALLOY_BASED_TIC-NIMO_AND_CR2C3-NI_HARDMETAL_PARTICLES_REINFORCED_COMPOSITE_COATINGS

Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders

Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 25

Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders

Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei; Vuoristo, Petri Materials science = Medžiagotyra 2012 / p. 34-39 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1338>

Wearing model of cemented carbide composites

Valdma, Leo; Kübarsepp, Jakob; Kallas, Paul; Annuka, Harri Tallinna Tehnikaülikooli Toimetised 1991 / lk. 99-105: ill

Wear-resistant composite coatings, surface engineering

Kulu, Priit; Zimakov, Sergei Euromat '99. Vol. 11 2000 / p. 144-145

Wear-resistant composite hard metal consisting coatings

Kulu, Priit; Arensbürger, Daniil; Tümanok, Aleksei; Pihl, Toomas; Halling, Jaanus International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 160-164: ill

Wear-resistant WC-Co-NiCrSiB composite coatings

Kulu, Priit; Pihl, Toomas; Halling, Jaanus NORDTRIB '98 : proceedings of the 8th International Conference on Tribology, Ebeltoft, Denmark, 7-10 June 1998. Vol. 2 1998 / p. 809-818

Wetting and interfacial behaviour in the TiB2-NiCrBSiC system

Storozhenko, Maryna; Umanskyi, Oleksandr; Antonov, Maksim Journal of alloys and compounds 2019 / p. 15-22 : ill

<https://doi.org/10.1016/j.jallcom.2018.11.102> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Vibration analysis of multifunctional laminated glass panel [Online resource]

Väer, Kaur; Õunapuu, Erko; Eerme, Martin; Auriemma, Fabio; Rämmal, Hans International Conference "Functional Materials and Nanotechnologies 2017" : Tartu, Estonia in April, 24-27, 2017 : book of abstracts 2017 / p. 145

http://www.ester.ee/record=b4668793*est

Vibration-assisted sputter coating of cenospheres : a new approach for realizing Cu-based metal matrix syntactic foams

Shishkin, Andrei; Drozdova, Maria; Kozlov, Viktor; Hussainova, Irina; Lehmhus, Dirk Metals 2017 / art. 16, p. 1-10 : ill

<https://doi.org/10.3390/met7010016> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Videod teaduslikust eksperimendist : sinu eilsetest teksadest kootakse uus müts või kampsun

rohe.geenius.ee 2023 [Videod teaduslikust eksperimendist : sinu eilsetest teksadest kootakse uus müts või kampsun](https://www.geenius.ee/record=b4668793*est)

Virtual reality visualization for short fibre orientation analysis

Pastorelli, Emiliano; Herrmann, Heiko BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 201-204 : ill

Visualization of strain distribution around the edges of a rectangular foreign object inside the woven carbon fibre specimen

Herranen, Henrik; Allikas, Georg; Eerme, Martin; Vene, Karl-Kristo; Otto, Tauno; Gregor, Andre; Kirs, Maarjus; Mädamürk, Karl Estonian journal of engineering 2012 / p. 279-287 : ill https://artiklid.elnet.ee/record=b2527774*est

Wood-based composite plastic with polyethylene and urea-formaldehyde binder

Vares, Toomas; Reiska, Rein Tallinna Tehnikaülikooli Toimetised 1992 / lk. 45-51: ill

Ülevaade lõputöödest : TalTechi elektrotehnika ja mehhatroonika õppekaval sai magistrikaadi seitse lõpetajat
Rassõlkin, Anton Elektriala 2025 / lk. 32-33 : fot https://www.ester.ee/record=b1240496*est

YSZ-rGO composite ceramics by spark plasma sintering : the relation between thermal evolution of conductivity, microstructure and phase stability

Glukharev, Artem; Glumov, Oleg; Temnikova, Maria; Saffarshamshirgar, Ali; **Hussainova, Irina**; Konakov, Vladimir Electrochimica acta 2021 / art. 137533 <https://doi.org/10.1016/j.electacta.2020.137533> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Анализ работы составного висячего покрытия

Parts, Aldur Теория и расчет тонкостенных пространственных конструкций 1987 / с. 34-45

Влияние пористости на магнитные свойства магнитомягких композиционных материалов

Roninson, Aleksander; Laansoo, Andres; Ritso, Aadu; Siimar, Rein Свойства и технология изготовления износостойких материалов 1984 / с. 63-77

Влияние термообработки железного порошка на микроструктуру и свойства магнитомягких композиционных материалов

Pärnapuu, Arnold; Ritso, Aadu; Laansoo, Andres Свойства и технология изготовления износостойких материалов 1982 / с. 69-73 : илл https://www.ester.ee/record=b1309562*est <https://digikogu.taltech.ee/et/Item/da5bb058-212f-443b-9de3-5673fbd01534>

Влияние технологических факторов на свойства магнитомягких композиционных материалов

Mäeküla, Tarmo XXVI студенческая научно-техническая конференция вузов Молдавской ССР, Белорусской ССР и Прибалтийских республик, 21-23 апреля 1982 года : тезисы докладов. Часть 2, Химия и технология, механика, строительство 1982 / с. 140 https://www.ester.ee/record=b5165223*est

Влияние технологических факторов на свойства магнитомягких композиционных материалов

Laansoo, Andres; Liimann, Väino; Siimar, Rein; Ritso, Aadu Tallinna Tehnikaülikooli Toimetised 1990 / lk. 52-62: ill

Вопросы триботехнического материаловедения порошковых карбидостальных композитов

Valdma, Leo; Kübarsepp, Jakob; Annuka, Harri Современные проблемы триботехнологии : тезисы докладов Всесоюзный научно-технологической конференций 1988 / с. 152-153

Железные порошки для магнитомягких композиционных материалов

Siimar, Rein; Liimann, Väino; Ritso, Aadu; Laansoo, Andres Свойства и технология изготовления композиционных материалов 1986 / с. 78-88

Износостойкие распылители жидкого топлива из карбидостальных порошковых композитов

Valdma, Leo; Kallas, Paul; Kübarsepp, Jakob; Annuka, Harri Порошковая металлургия и области его применения : тезисы докладов к зональному семинару 11-12.06.1990, Пенза 1990 / с. 81-82

Изучение особенностей прессования магнитомягких композиционных материалов

Meinberg, M.; Tilk, H.; Laansoo, Andres; Käerdi, Helmo XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 130 https://www.ester.ee/record=b1305565*est

Испытание наноиндентированием и моделирование композитов на основе карбида хрома

Hussainova, Irina; Hamed, Elham; Jasiuk, Iwona Mechanics of composite materials 2010 / p. 1-18 : ill

Исследование взаимосвязи гидроабразивного износа и коррозионной стойкости композиционных материалов на основе карбида бора

Маринич М.А.; Кузенкова М.А.; Бевза Ю.В.; Беловол В.С. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 9-10

Исследование магнитных и электрических свойств магнитомягких композиционных материалов на физической модели зубцов плоского двигателя

Ritso, Aadu; Laansoo, Andres; Siimar, Rein Тезисы докладов VI Всесоюзной научно-технической конференции "Новые технологические процессы и оборудование для производства электрических машин малой мощности" : (г. Тбилиси, 1-4 июня 1983 г.) 1983 / с. 49-50 https://www.ester.ee/record=b2190535*est

Исследование применимости горючих сланцев и керогена в качестве наполнителя в поливинилхлоридных композициях

Silland, Harald; Teearu, M. Технология органических веществ. 1 1969 / с. 99-104 https://www.ester.ee/record=b1337236*est <https://digikogu.taltech.ee/et/Item/d6e3c08c-1c99-48a8-ae34-e91a3f1c8d0d>

Коррозионноизносостойкие безвольфрамовые композиты на основе тугоплавких соединений для деталей узлов трения, работающих в перегретом бидистилляте воды

Халепа А.П. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 6-8

Критический радиус включений диоксида циркония в эффекте трансформационного упрочнения керамик

Filippov, Roman; Freidin, Alexander; Hussainova, Irina; Vilchevskaya, Elena Физическая мезомеханика 2014 / с. 55-64 : ил

Магнитные свойства порошкового магнитомягкого композиционного материала при повышенных температурах

Laansoo, Andres; Siimar, Rein Физика магнитных материалов : межведомственный тематический сборник научных трудов 1988 / с. 109-115 https://www.ester.ee/record=b2909180*est

Магнитомягкие композиционные материалы для электрических машин малой мощности

Ritso, Aadu; Siimar, Rein Тезисы докладов IV Всесоюзной научно-технической конференции "Новые технологические процессы и оборудование для производства электрических машин малой мощности" (г. Тбилиси, 3-5 октября 1979 г.) 1980 / с. 53-54

Магнитомягкие композиционные материалы (ММКМ) для асинхронных двигателей плоского исполнения

Ritso, Aadu; Laansoo, Andres; Randmer, Uudus; Siimar, Rein Тезисы докладов V Всесоюзной научно-технической конференции "Новые технологические процессы и оборудование для производства электрических машин малой мощности" : (г. Тбилиси, 12-15 октября 1981 г.) 1981 / с. 47-48 https://www.ester.ee/record=b5302673*est

Магнитомягкий композиционный материал для магнитопроводов с пространственным распределением магнитного потока

Ritso, Aadu; Laansoo, Andres; Siimar, Rein; Liimann, Väino Свойства и технология изготовления износостойких материалов 1982 / с. 75-87 : илл https://www.ester.ee/record=b1309562*est <https://digikogu.taltech.ee/et/Item/da5bb058-212f-443b-9de3-5673fbd01534>

Магнитомягкий композиционный материал для магнитопроводов, работающих при повышенных температурах

Siimar, Rein; Laansoo, Andres; Randmer, Uudus; Liimann, Väino Свойства и технология изготовления композиционных материалов 1985 / с. 49-56

Математическое моделирование магнитных характеристик ММКМ

Siimar, Rein; Randmer, Uudus; Ritso, Aadu Свойства и технология изготовления композиционных материалов 1986 / с. 89-98

Моделирование процесса намотки композитных цилиндрических оболочек

Kutin, Aleksei; Arjassov, Gennadi Научно-технический вестник информационных технологий, механики и оптики = Scientific and technical journal of information technologies, mechanics and optics 2020 / с. 283-289 <https://doi.org/10.17586/2226-1494-2020-20-2-283-289>

Модель структурно-селективного износа двухфазных композитов

Valdma, Leo Безвольфрамовые порошковые твердые сплавы и карбидостали. Часть 1 : тезисы докладов IV республиканской научно-технической конференции 1985 / с. 17-18 https://www.ester.ee/record=b1253975*est

Некоторые вопросы прочности магнитомягких композиционных материалов

Laansoo, Andres; Liimann, Väino; Siimar, Rein; Ritso, Aadu; Akkel, T. Свойства и технология изготовления композиционных материалов 1985 / с. 57-66

Некоторые особенности прессования магнитомягких композиционных материалов

Laansoo, Andres; Liimann, Väino; Ritso, Aadu; Tšainikov, N.A. Износостойкие спеченные материалы и покрытия 1988 / с. 73-83

О методике определения магнитных характеристик магнитомягких композиционных материалов

Kass, I.; Liimann, Väino; Ritso, Aadu; Siimar, Rein XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 85 https://www.ester.ee/record=b1322629*est

О применении магнитомягких композиционных материалов в качестве магнитопроводов электрических машин

Ritso, Aadu; Laansoo, Andres; Siimar, Rein; Drozdov, A. Тезисы докладов VI Всесоюзной научно-технической конференции "Новые технологические процессы и оборудование для производства электрических машин малой мощности" : (г. Тбилиси, 1-4 июня 1983 г.) 1983 / с. 69-70 https://www.ester.ee/record=b2190535*est

О расчете эффективного коэффициента температуропроводности многослойного композитного материала

Vares, Villu; Kruus, Rein; Käär, Harri; Mikk, Ilmar Исследование работы парогенераторов электростанций 1981 / с. 39-45 : илл https://www.ester.ee/record=b1326756*est <https://digikogu.taltech.ee/et/Item/8a56e594-2cb9-4087-927c-6d2c543d733b>

О технологии прокатки и некоторых характеристиках железного порошка

Liimann, Väino; Mäeküla, Tarmo; Randmer, Uudus; Ritso, Aadu; Siimar, Rein XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 130 https://www.ester.ee/record=b1322629~S1*est

Перспективы производства магнитопроводов из магнитомягких чешуйчатых композиционных материалов (ММКМЧ)

Laansoo, Andres; Ritso, Aadu Электротехническое производство 1990 / 1, с. 11-12: рис

Получение слоистых магнитопроводов из магнитно-мягких композиционных материалов

Ritso, Aadu; Katrus, O.; Laansoo, Andres; Siimar, Rein Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1985 / с. 70-73 : ил https://www.ester.ee/record=b1645489*est

Порошковая металлургия

Mosberg, Rudolf; Arensbürger, Daniil; Letunovič, Sergei; Kulu, Priit; Kallas, Paul; Halling, Jaanus; Kübarsepp, Jakob; Annuka, Harri; Zeer, G.; Valdma, Leo; Pirso, Jüri; Siimar, Rein; Laansoo, Andres; Randmer, Uudus; Liimann, Väino; Ritso, Aadu; Akkel, T. 1985 https://www.ester.ee/record=b1302663*est

Порошковая металлургия

Mosberg, Rudolf; Arensbürger, Daniil; Letunovič, Sergei; Pirso, Jüri; Kallas, Paul; Agošaviči, B.T.; Bujanovski, I.N.; Ivaštšenko, L.K.; Kulu, Priit; Mühlman, J.; Halling, Jaanus; Valdma, Leo; Kübarsepp, Jakob; Annuka, Harri; Laansoo, Andres; Käerdi, Helmo; Randmer, Uudus; Liimann, Väino; Siimar, Rein; Ritso, Aadu 1986 https://www.ester.ee/record=b1354812*est

Порошковые магнитомягкие композиционные материалы для электромашиностроения : [монография]

Laansoo, Andres 1991 https://www.ester.ee/record=b1061777*est

Порошковый магнитомягкий композиционный материал в переменном магнитном поле

Varik, Lembit-Heino; Roninson, Aleksander Исследование электрических машин и электромагнитных устройств специального назначения 1983 / с. 43-48 https://www.ester.ee/record=b1271915*est <https://digikogu.taltech.ee/et/Item/d1676714-579b-4ec9-949f-401ab84c5a70>

Проблема применения термически упроченных карбидных композитов для распылителей мазутных форсунок

Valdma, Leo; Annuka, Harri; Kübarsepp, Jakob; Kallas, Paul Износостойкие спеченные материалы и покрытия 1988 / с. 3-7

Пропитка пористых металлов и свойства металлополимерных покрытий

Забукас В.; Квядарас В. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 39-41

Проспект экспоната и экспонат "Магнитопроводы магнитомягких композиционных материалов"

Laansoo, Andres; Liimann, Väino; Ritso, Aadu; Siimar, Rein 1986

Прочность и пластичность карбидосталей с железоникелевыми связками

Kübarsepp, Jakob; Reshetnjak, Heinrich; Annuka, Harri Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 15-17

Разработка технологии изготовления порошковых композиционных магнитомягких материалов (ПКММ) : работа на соиск. степ. магистра техн. наук

Liimann, Väino 1992 https://www.ester.ee/record=b2631149*est

Релаксация пластической прочности дисперсных композиций

Randma, I.; Kunnoss, Georgijs; Gordon, Boris Механика и технология на композиционных материалах : Материалы от второй национальной конференции по механике и технологии на композиционных материалах, Варна, 1-3 октября 1979 г. = Механика и технология композиционных материалов : Материалы второй национальной конференции по механике и технологии композиционных материалов, Варна, 1-3 октября 1979 г. = Mechanics and technology of composite materials : Proceedings of the second national conference on mechanics and technology of composite material, Varna, oct. 1-3 1979 1979 / с. 471-474

Реология и технология получения композиционного материала на основе гипсоцементнопуццоланового вяжущего и стекловолокна : автореферат ... кандидата технических наук (05.23.05)

Gorin, Andrei 1985 http://www.ester.ee/record=b1542341*est

Реология и технология получения композиционного материала на основе гипсоцементнопуццоланового вяжущего и стекловолокна : диссертация ... кандидата технических наук : 05.23.05 - строительные материалы и изделия

Gorin, Andrei 1984 http://www.ester.ee/record=b2425952*est

Свободный формальдегид в древесно-полимерных композиционных материалах

Kaps, Tiit Республиканская научная конференция "Химия и применение фенолальдегидных смол" : тезисы докладов 1987 / с. 149-151 https://www.ester.ee/record=b1263082*est

Свободный формальдегид в древеснополимерных композиционных материалах. Сообщ. 1, Взаимосвязь между содержанием свободного формальдегида в древесно-стружечных плитах и его эмиссией
Vares, Toomas; Kaps, Tiit Синтез и применение поликонденсационных клеев. 9 1986 / с. 89-95

Свободный формальдегид в древеснополимерных композиционных материалах. Сообщ. 2, Некоторые проблемы аммиачной обработки древесно-стружечных плит
Sillajõe, Aadu; Kaps, Tiit; Vares, Toomas Синтез и применение поликонденсационных клеев. 9 1986 / с. 97-102

Свободный формальдегид в древесно-полимерных материалах. Сообщение 7, Технологические аспекты обработки древесно-композиционных материалов бикарбонатом аммония
Vares, Toomas; Sillajõe, Aadu; Kaps, Tiit Tallinna Tehnikaülikooli Toimetised 1990 / lk. 68-73

Сланцевые наполнители композиций на основе полимерных материалов
Fadejeva, Rimma; Joonas, Richard; Klementjeva, G. I Всесоюзная конференция по композиционным полимерным материалам и их применению в народном хозяйстве, (1-3 октября): тезисы докладов. Ч. 1 1980 / с. 52-53

Структурно-селективный износ композитов типа кермета в абразивной среде
Valdma, Leo Трение и изнашивание композиционных материалов : материалы всесоюзной научно-технической конференции : тезисы докладов ; Секция 1. Композиты на основе металлов, включая металлокерамические 1982 / с. 23

Теплофизические свойства металлокерамических композиций системы Al_2O_3-Nb
Osipova, V.; Käär, Harri Теплоэнергетика : сборник статей. 12 1971 / с. 63-69 : илл https://www.ester.ee/record=b2190313*est
<https://digikogu.taltech.ee/et/Item/b5d52827-852f-4b06-9011-e964baabd316/>

Термическое и кинетическое сопряженные реакций при самораспространяющемся высокотемпературном синтезе материалов
Aydinyan, Sofiya; Kharatyan, Suren Технологическое горение 2019 / с. 429-451 <https://www.elibrary.ru/item.asp?id=41525861>

Термохимическое модифицирование древесины. Сообщение I, Проблемы износа и затупления инструмента при резании древесных композиционных материалов
Riistop, Märt; Kaps, Tiit Синтез и применение поликонденсационных клеев. 4 1981 / с. 81-85
https://www.ester.ee/record=b2191035*est <https://digikogu.taltech.ee/et/Item/b5691e32-e425-4279-b0c6-86c2af1f88a1>

Точность размеров магнитопроводов из магнитомягких композиционных материалов (ММКМ)
Martma, A.; Siimar, Rein; Liimann, Väino XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 135 https://www.ester.ee/record=b1305565*est

Чешуйчатые магнитомягкие композиционные материалы для магнитопроводов электрических машин
Ritso, Aadu; Randmer, Uudus-Gerhard; Siimar, Rein Всесоюзная конференция по вопросам порошковой металлургии. Тезисы докладов XIV Всесоюзной конференции по порошковой металлургии (г. Ташкент, 1979 г.) 1979 / с. 183-184