

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

Additive manufacturing of TiC-based cermets : a detailed comparison with spark plasma sintered samples

Maurya, Himanshu Singh; Jayaraj, Jayamani; Vikram, Raja Jothi; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 170436 <https://doi.org/10.1016/j.jallcom.2023.170436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Guana, H.D.; Lia, C.J.; Gaoa, 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 orthotropic material model for steel fibre reinforced concrete based on the orientation distribution of fibres

Eik, Marika; Puttonen, Jari; Hermann, 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 of short fibres orientation in steel fibre-reinforced concrete (SFRC) by X-ray tomography

Suuronen, Jussi-Petteri; Eik, Marika; Hermann, 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](#)

Application of magnetic methods for structure investigation of steel-bonded hardmetals

Laansoo, Andres; Kübarsepp, Jakob International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 145-148

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

Asfaltsegud. Materjali spetsifikatsioon

Mespaak, Vello 2008

Assessment of metal condition and remaining life of in-service power plant components operating at high temperature = Elektriiaamade kõrgetemperatuursete seadmete metalli seisundi ja jääkressursi hindamine

Dedov, Andrei 2007 <https://digi.lib.ttu.ee/i/?159> https://www.ester.ee/record=b2324690*est

Assessment of zirconia doped hardmetals as tribomaterials

Hussainova, Irina; Antonov, Maksim; Voltšihhin, Nikolai Wear 2011 / p. 1909-1915 : ill

Assessment on strength and stiffness properties of aged structural timber

Kauniste, Maarja; Just, Alar; Tuhkanen, Eero; Kalamees, Targo Journal of sustainable architecture and civil engineering 2024 / p. 62-74 <https://doi.org/10.5755/j01.sace.34.1.35534> [Journal metrics at Scopus](#) [Article at Scopus](#)

Behaviour of tungsten alloy with iron and nickel under repeated high temperature plasma pulses

Laas, T.; Laas, K.; Paju, J.; Priimets, Jaanis; Tõkke, Siim; Väli, B.; Shirokova, Veroonika; Antonov, Maksim; Gribkov, V.A.; Demina, E.V.; Pimenov, V.N.; Paduch, M.; Matulka, R.; Akel, M. Fusion engineering and design 2020 / art. 111408 <https://doi.org/10.1016/j.fusengdes.2019.111408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bioinspired and multifunctional tribological materials for sliding, erosive, machining, and energy-absorbing conditions : A review

Kumar, Rahul, 1993-; Rezapourianghahfarokhi, Mansoureh; Rahmani Ahranjani, Ramin; Maurya, Himanshu Singh; Kamboj, Nikhil Kumar; Hussainova, Irina Biomimetics 2024 / art. 209 <https://doi.org/10.3390/biomimetics9040209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biomimetic design of implants for long bone critical-sized defects

Rezapourianghahfarokhi, Mansoureh; Kamboj, Nikhil Kumar; Jasiuk, Iwona; Hussainova, Irina Journal of the mechanical behavior of biomedical materials 2022 / art. 105370 <https://doi.org/10.1016/j.jmbbm.2022.105370> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biomimetics

2024 https://www.mdpi.com/journal/biomimetics/special_issues/0K2292JW30

Bituumen ja bituumensideained. Polümeermodifitseeritud bituumenite määratlemise alused = Bitumen and bituminous binders. Specification framework for polymer modified bitumens

2011 https://www.ester.ee/record=b2653197*est

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]

Brazing of TiC cermet to steel

Laansoo, Andres; Kübarsepp, Jakob; Vainola, Vello Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 480-485 : ill

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

Characteristics of Portland cements for sulfate and weather resistant concrete = Sulfaadi- ja ilmastikukindla betooni tootmiseks vajalike portlandtsementide iseloomulikud parameetrid

Hain, Tiina 2012 <https://digi.lib.ttu.ee/!/7809>

Characterization and comparison of as received and clinically retrieved Bio-active™ orthodontic archwires

Georgieva, Mirela; Stoyanova-Ivanova, Angelina; Cherneva, Sabina; Petrov, Valeri; Petrova, Violeta; Andreeva, Laura; Mihailov, Valentin; Petkov, Alexander; Mikli, Valdek Biotechnology and biotechnological equipment 2021 / p. 1301-1311 : ill
<https://doi.org/10.1080/13102818.2021.1964381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterization of hardmetals wear

Kübarsepp, Jakob; Reshetnjak, Heinrich Materials Engineering - 98 : materials of the VII-th International Baltic Conference, September 24-25, Jurmala, Latvia 1998 / p. 123-127: ill

Characterization of microstructure and mechanical properties of cermets at micro- and nanoscales

Hussainova, Irina; Antonov, Maksim; Jasiuk, Iwona; Du, Xiangdong International journal of materials & product technology 2011 / p. 58-74 : ill

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>

Chromium carbide based cermets as the wear resistant materials

Antonov, Maksim; Hussainova, Irina; Pirso, Jüri Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 177-180 : 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](#)

Combustion synthesis and reactive spark plasma sintering of non-equiatomic coal-based high entropy intermetallics

Kuskov, Kirill Vasilevich; Nepapushev, Andrey A.; Aydinyan, Sofiya; Shaysultanov, Dmitry G.; Stepanov, Nikita D.; Nazaretyan, Khachik; Kharatyan, Suren; Zakharova, Elena V.; Belov, Dmitry S.; Moskovskikh, Dmitry O. Materials 2023 / art. 1490
<https://doi.org/10.3390/ma16041490> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combustion synthesis of MAX phases: microstructure and properties inherited from the processing pathway

Aydinyan, Sofiya Crystals 2023 / art. 1143 <https://doi.org/10.3390/cryst13071143> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 buckling of steel beams in Eurocode 3 and the Russian code

Loorits, Kalju; Talvik, Ivar Journal of constructional steel research 2006 / 12, p. 1290-1294 : ill
<https://www.sciencedirect.com/science/article/pii/S0143974X06001076>

Comparative study on indentation fracture toughness measurements of cemented carbides

Sergejev, Fjodor; Antonov, Maksim 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 50-51 : ill

Comparative study on indentation fracture toughness measurements of cermets and hardmetals

Sergejev, Fjodor Proceedings of EURO PM 2006 Congress & Exhibition : Ghent, Belgium, 23-26 Oct. 2006. 1 2006 / p. 43-48

A comparative study on physio-mechanical properties of silica compacts fabricated using rice husk ash derived amorphous and crystalline silica

Gupta, Ashutosh; Pandey, Vaibhav; **Yadav, Mayank Kumar**; Mohanta, Kalyani; Majhi, Manas Ranjan Ceramics international 2022 / p. 35750-35758 <https://doi.org/10.1016/j.ceramint.2022.07.098> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of electrical conductivity of cement composite materials

Birzniece, Inga Melanija; Cizevska, Anna; **Goljandin, Dmitri**; Lusiš, 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 measured fiber orientation in fiber concrete with predictions by CFD simulations

Herrmann, Heiko; Goidyk, Oksana; **Braunbrück, Andres**; **Marjapuu, Rasmus-Richard**; **Tuisk, Tanel** M2D2017 : proceedings of the 7th International Conference on Mechanics and Materials in Design : (Albufeira/Portugal, 11-15 June 2017) 2017 / p. 1245-1246 : ill https://paginas.fe.up.pt/~m2d/Proceedings_M2D2017/data/papers/Book.pdf

Comparison of the microstructures and mechanical properties of Ti6AL4V fabricated by electron beam melting, spark plasma sintering, and selective laser remelting

Karimi, Javad; **Prashanth, Konda Gokuldoss** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 39 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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](#)

Corrigendum to “The influence of high energy milling and sintering parameters on reactive sintered (Ti, Mo)C–Ni cermets” [J. Alloys Compd. 636 (2015) 381–386] (S0925838815005009) (10.1016/j.jallcom.2015.02.071))

Jõelet, Marek; **Pirso, Jüri**; **Juhani, Kristjan**; **Viljus, Mart**; **Traksmäa, Rainer** Journal of alloys and compounds 2018 / p. 128 <https://doi.org/10.1016/j.jallcom.2018.05.128> [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](#)

Determination of mechanical properties of thin hard coatings using nanoindentation

Yaldiz, Can Emrah; **Veinthal, Renno**; **Gregor, Andre**; Georgiadis, Kyriakos 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 48

Determination of physical, mechanical and burning characteristics of polymeric waste material briquettes

Kers, Jaan; **Kulu, Priit**; **Aruniit, Aare**; **Laurmaa, Viktor**; Križan, Peter; Šooš, Lubomir; **Kask, Ülo** Estonian journal of engineering 2010 / p. 307-316 : ill

Determination of tensile properties of power plant steels by testing of miniature specimens

Klevtsov, Ivan; **Dedov, Andrei** ASME 2013 Pressure Vessels & Piping Conference : PVP2013 : July 14-18, 2013, Paris, France 2013 <https://doi.org/10.1115/PVP2013-97135> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Determination of the mechanical properties of carbide composites by spherical indentation

Sergejev, Fjodor; **Petrov, Mihail**; **Kübarsepp, Jakob** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 723-728 : ill

Development of Cu-based shape memory alloy through selective laser melting from elemental powder mixture: Processing and characterization

Singh, Shalini; Palani, I. A.; Dehghani, Shirin; Qureshi, A. J.; Jinoop, A. N.; Paul, C. P.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 171029 <https://doi.org/10.1016/j.jallcom.2023.171029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of hemp hurd particleboards from formaldehyde-free resins

Alao, Percy Festus; Tobias, Micah Onyedikachi; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Goljandin, Dmitri 11th International Conference Biosystems Engineering : May 6-8, 2020 in Tartu, Estonia : book of abstracts [Võrguteavik] 2020 / p. 99
https://www.ester.ee/record=b5347289*est

Development of hemp hurd particleboards from formaldehyde-free resins

Alao, Percy Festus; Tobias, Micah Onyedikachi; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Goljandin, Dmitri Agronomy research 2020 / p. 679–688 : ill <https://doi.org/10.15159/AR.20.127> [Journal metrics at Scopus](#) [Article at Scopus](#)

Developments in cermet design, technology and performance

Kübarsepp, Jakob; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart International journal of materials & product technology 2014 / p. 160-179 <https://doi.org/10.1504/IJMP.2014.064046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Direct measurement of mechanical properties of metal to be used in manufacture of power plant equipment

Klevtsov, Ivan; Dedov, Andrei; Bogoljubova, Elena; Bojarinova, Tatjana Thermal engineering 2008 / 5, p. 431-434 : ill

Doping engineering for controlled hydration and mechanical properties in Portland cement mortar with ultra-low ZnO concentration

Tamashiro, Jacqueline Roberta; de la Rubia, Miguel Angel; Rubio-Marcos, Fernando; **Rojas Hernandez, Rocio Estefania**; Silva, Lucas Henrique Pereira; de Paiva, Fabio Friol Guedes; Kinoshita, Angela; Terrades, Amparo Moragues Journal of building engineering 2023 / art. 107748 <https://doi.org/10.1016/j.job.2023.107748> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

An economic and sustainable approach to transform aluminosilicate-rich solid waste to functionally graded composite foam for high-temperature applications

Pandey, Vaibhav; **Yadav, Mayank Kumar**; Panda, Saroja Kanta; Singh, Vinay Kumar Chemosphere 2023 / art. 139588, 12 p. : ill <https://doi.org/10.1016/j.chemosphere.2023.139588> [Journal metrics at Scopus](#) [Article at Scopus](#)

Editorial : Fundamentals and challenges of advanced amorphous and high-entropy alloys

Song, Kaikai; Huang, Yongjiang; Li, Ran; Qiao, Jichao; Wang, Zhi; **Prashanth, Konda Gokuldoss; Söpu, Daniel** Frontiers in materials 2022 / art. 874556, 3 p. : ill <https://doi.org/10.3389/fmats.2022.874556> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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 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 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

Effect of carbide produces technique on the structure and properties of the Cr3C2-Ni cermets

Letunovitš, Sergei; Viljus, Mart; Pirso, Jüri Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 181-184 : ill

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

Effect of different hardwood species and lay-up schemes on the mechanical properties of plywood

Kallakas, Heikko; Rohumaa, Anti; Vahermets, Harti; Kers, Jaan Forests 2020 / art. 649, 13 p. : ill <https://doi.org/10.3390/f11060649>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of fly-ash cenospheres on properties of clay-ceramic syntactic foams

Rugele, Kristine; Lehmhus, 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 free carbon on the mechanical and tribological properties of cemented carbides

Joost, Renee; Pirso, Jüri; Tenno, Taavi; Viljus, Mart Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [Il] 2010 / p. 450-455 : ill

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 graphene nanoplatelet content on mechanical and elevated-temperature tribological performance of self-lubricating ZE10 magnesium alloy nanocomposites

Kandemir, Sinan; Yöyler, Sibel; Kumar, Rahul, 1993-; Antonov, Maksim; Dieringa, Hajo Lubricants 2024 / art. 52
<https://doi.org/10.3390/lubricants12020052> [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 high chromium content additions in iron-bonded Ti(C,N) cermets: a hardness-toughness tradeoff

Pampori, Tabeen Halawat; Kolnes, Märt; Juhani, Kristjan; Tarraste, Marek; Kübarsepp, Jakob Proceedings of the Estonian Academy of Sciences 2025 / p. 170-174 : ill <https://doi.org/10.3176/proc.2025.2.16>

Effect of high-force impulse loads on the modification of mechanical properties of heat-resistant steel after service

Chausov, Mykola; Maruschak, Pavlo; Pylypenko, Andriy; Sergejev, Fjodor; Student, Oleksandra Estonian journal of engineering 2012 / p. 251-258 : ill

Effect of hot dip galvanizing on the mechanical properties of high strength steels

Sepper, Sirli; Peetsalu, Priidu; Saarna, Mart; Mikli, Valdek; Kulu, Priit Engineering materials & tribology XXII 2014 / p. 12-15 : ill
<https://doi.org/10.4028/www.scientific.net/KEM.604.12> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

The effect of ionic liquids on the mechanical properties of electrospun polyacrylonitrile membranes

Plamus, Tiia; Savest, Natalja; Viirsalu, Mihkel; Harz, Patrick; Tarasova, Elvira; Krasnou, Illia; Vassiljeva, Viktoria; Kallavus, Urve; Krumme, Andres Polymer testing 2018 / p. 335-343 : ill <https://doi.org/10.1016/j.polymertesting.2018.09.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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](#)

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 printing direction on the strength characteristics of a 3D printed concrete wall section

Põldaru, Mattias; Tammkõrv, Karl; Tuisk, Tanel; Kiviste, Mihkel; Puust, Raido Buildings 2023 / art. 2917
<https://doi.org/10.3390/buildings13122917> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of selective laser melting process parameters on microstructural and mechanical properties of TiC–NiCr cermet
Aramian, Atefeh; Sadeghian, Zohreh; Razavi, Seyed Mohammad J.; Prashanth, Konda Gokuldoss; Berto, Filippo Ceramics international 2020 / p. 28749-28757 <https://doi.org/10.1016/j.ceramint.2020.08.037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of sinter/HIP technology on properties of TiC–NiMo cermets

Kollo, Lauri; Pirso, Jüri; Juhani, Kristjan Materials science forum 2007 / Progress in powder metallurgy, p. 1169-1172 : ill

Effect of strain rate and temperature on mechanical properties and fracture mechanism of the dispersion strengthened Al-12Al4C3 system

Velgosova, Oksana; Besterici, Michal; Kulu, Priit High temperature materials and processes 2005 / 3, p. 183-187 : ill
<https://www.degruyter.com/document/doi/10.1515/HTMP.2005.24.3.183/html>

The effect of surface properties on bond strength of birch, black alder, grey alder and aspen veneers

Rohumaa, Anti; Kallakas, Heikko; Mäetalu, Marja; Savest, Natalja; Kers, Jaan International Journal of Adhesion and Adhesives 2021 / art. 102945 <https://doi.org/10.1016/j.ijadhadh.2021.102945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of temperature, humidity and mechanical properties on crack formation on external thin plasters of ETICS

Volkova, Kristina; Põldaru, Mattias; Ilomets, Simo; Kalamees, Targo; Talvik, Martin; Heim, Dariusz Journal of physics : conference series 2021 / art. 012025, 8 p. : ill <https://doi.org/10.1088/1742-6596/2069/1/012025> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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](#)

Efficient barrier properties of mechanically enhanced agro-extracted cellulosic biocomposites

Qasim, Umair; Fatima, R.; Usman, M. Materials today chemistry 2020 / art. 100378, 8 p. : ill
<https://doi.org/10.1016/j.mtchem.2020.100378>

Ehituspuidu tugevusklassidest

Just, Elmar-Jaan Ehitaja 2001 / 12, lk. 26-29 : ill https://artiklid.elnet.ee/record=b1008535*est

Ehituspuit : tugevusklassid = Structural timber : strength classes

2012 https://www.ester.ee/record=b2746664*est

Ehituspuit [Võrguteavik] : tugevusklassid = Structural timber : strength classes

2016 http://www.ester.ee/record=b4602392*est

Ehituspuit. Mehaaniliste omaduste ja tiheduse normväärtuste määramine

Just, Elmar-Jaan; Soonurm, Enno 2002 https://www.ester.ee/record=b1736753*est

Ehituspuit. Tugevusklassid

Reiska, Rein 2005 https://www.ester.ee/record=b2088198*est

Ehituspuit. Tugevusklassid. Sordi ja liigi visuaalne määramine

Just, Elmar-Jaan 2002 https://www.ester.ee/record=b1629788*est

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

Erosion of engineering ceramics by solid particle impact

Pappel, Priit Proceedings of the First National DAAAM Conference in Estonia : Science '95 1996 / p. 57-66: ill

Erosion wear behavior of HVOF-sprayed WC/Cr3C2-based cermet and martensitic stainless steel coatings on AISi7Mg0.3 alloy : a comparative study

Korobov, Yuri; Antonov, Maksim; Astafiev, Vladimir; Brodova, Irina; Kutaev, Vladimir; Estemirova, Svetlana; Devyatyarov, Mikhail; Okulov, Artem Journal of manufacturing and materials processing 2024 / art. 231 <https://doi.org/10.3390/jmmp8050231> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Eurokoodeks 5: Puitkonstruktsioonide projekteerimine

Öiger, Karl; Just, Elmar-Jaan; Just, Alar 2006 https://www.ester.ee/record=b2229119*est

Evaluating the microstructural formation in Mo added Ti6Al4V alloy fabricated by direct energy deposition using a laser-stop strategy

Ye, Z.; Yu, Z.; Gao, P.; **Prashanth, Konda Gokuldoss**; Zhang, F.; Zhao, K.; Tan, H. Additive Manufacturing 2024 / art. 104226 <https://doi.org/10.1016/j.addma.2024.104226> [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 mechanical properties and residual stresses of hard PVD coatings

Gregor, Andre; Lille, Harri; Kõo, Jakob; **Sergejev, Fjodor**; **Traksmaa, Rainer**; **Sivitski, Alina**; **Kulu, Priit** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 34

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](#)

Evolution of microstructure and properties in Ti-alloys during rapid electrocontact heating with SPD

Kommel, Lembit; **Peetsalu, Priidu**; **Veinthal, Renno** Materials Engineering & Balttrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 62-66 : ill <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10934528/>

Experimental and numerical analysis of HPTE on mechanical properties of materials and strain distribution

Omranpour Shahreza, Babak; Kulagin, Roman; Ivanisenko, Yulia; Sanchez, E. Garcia 7th International Conference on Nanomaterials by Severe Plastic Deformation 2-7 July 2017, Sydney, Australia 2017 / art. 012047, 6 p.: ill <https://doi.org/10.1088/1757-899X/194/1/012047> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Experimental spray powders and coatings produced from recycled hardmetal by various mechanical methods

Tarbe, Riho; **Zimakov, Sergei**; **Peetsalu, Priidu**; **Kulu, Priit**; **Mikli, Valdek** Euro PM2006 : congress & exhibition : proceedings : PM in Belgium, a crossroads in industry development : 23-25 October 2006 : Ghent, Belgium. Vol. 1, Hard materials 2006 / p. 259-264

Fabrication of Cu-W nanocomposites by integration of self-propagating high-temperature synthesis and hot explosive consolidation technologies

Aydinyan, Sofiya; Kirakosyan, Hasmik; Zakaryan, Marieta Eurasian chemico-technological journal 2018 / p. 301-309 : ill <https://doi.org/10.18321/ectj763>

Fatigue performance and mechanical reliability of cemented carbides

Preis, Irina 2004 https://www.ester.ee/record=b1994273*est

Feedstock preparation, microstructures and mechanical properties for laser-based additive manufacturing of steel matrix composites

Chen, Hongyu; Kosiba, Konrad; Suryanarayana, Challapalli; Lu, Tiwen; Liu, Yang; Wang, Yonggang; **Prashanth, Konda Gokuldoss** International materials reviews 2023 / p. 1192-1244 <https://doi.org/10.1080/09506608.2023.2258664> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fe-Ni binder modified NbC cermets: A cost-effective solution with superior mechanical properties

Basit, Muhammad Abdul; **Anwar, Furqan**; Ali, Sadaqat; Umer, Malik Adeel; Shahbaz, Tauheed; Ud Din, Emad; Mubashar, Aamir Ceramics international 2024 / p. 47768-47779 : ill <https://doi.org/10.1016/j.ceramint.2024.09.121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A finite element method for determining the mechanical properties of electrospun nanofibrous mats

Sanchaniya, Jaymin Vrajlal; Lasenko, Inga; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri** Polymers 2024 / art. 852 <https://doi.org/10.3390/polym16060852> [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

Fracture toughness of ceramics fired at different temperatures

Sin, Peter; **Veinthal, Renno**; **Sergejev, Fjodor**; **Antonov, Maksim**; Stubna, Igor Materials science = Medžiagotyra 2012 / p. 90-92 :

ill https://www.researchgate.net/publication/268257498_Fracture_Toughness_of_Ceramics_Fired_at_Different_Temperatures

From scrap to product : the effect of recycled tungsten carbide and alumina content on the mechanical properties of oxide-carbide duplex ceramic composite

Kariminejad, Arash; Klimczyk, Piotr; **Antonov, Maksim**; Hussainova, Irina Proceedings of the Estonian Academy of Sciences 2025 / p. 192-197 <https://doi.org/10.3176/proc.2025.2.20>

Grain refinement in laser manufactured Al-based composites with TiB₂ ceramic

Xi, Lixia; Guo, Shuang; Wang, Ruiqi; Ding, Kai; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2020 / p. 2611-2622 <https://doi.org/10.1016/j.jmrt.2020.04.059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Grain size-dependent mechanical and wear properties of TiC-FeNi steel cermets

Kollo, Lauri; Kübarsepp, Jakob Advances in Powder Metallurgy & Particulate Materials 2008 2008 / p. 90-95 : ill

Heat treatment and laser shock peening of AlSi10Mg alloy produced by selective laser melting : microstructure, hardness and residual stress analysis

Babalou, Reza; Azarbarmas, Morteza; **Prashanth, Konda Gokuldoss** Materials today communications 2025 / art. 112408 <https://doi.org/10.1016/j.mtcomm.2025.112408>

High strength steel behaviour during hot dip galvanizing

Sepper, Sirli; **Peetsalu, Priidu**; **Saarna, Mart**; Kirs, V.; **Mikli, Valdek** Proceedings 20th IFHTSE : International Federation for Heat Treatment and Surface Engineering Congress : Beijing, China, October 23-25, 2012 2012 / p. 525-529

High strength Ti-6Al-4V alloy fabricated by high-energy cube milling using calcium as process control agent (PCA) and spark plasma sintering

Babu, N. Kishore; **Kallip, Kaspar**; Leparoux, Marc; AlOgab, Khaled A.; Talari, Mahesh Kumar; Alqathani, N. M. The international journal of advanced manufacturing technology 2017 / p. 445-453 : ill <https://doi.org/10.1007/s00170-017-9994-9>

Hoonete energiatõhusus [Võrguteavik] : hoonete ventilatsioon. Osa 3, Mitteeluhoonete ventilatsioon. Üldnõuded ventilatsiooni- ja ruumiõhu konditsioneerimise süsteemidele (Moodulid M5-1, M5-4) = Energy performance of buildings : ventilation for buildings. Part 3, For non-residential buildings. Performance requirements for ventilation and room-conditioning systems (Modules M5-1, M5-4)

2017 http://www.ester.ee/record=b4740834*est

Hoonete ventilatsioon [Võrguteavik] : ventilatsiooni keskseadmed. Keskseadmete komponentide ja sektsioonide valik ja toimimine = Ventilation for buildings : air handling units. Rating and performance for units, components and sections

2019 https://www.ester.ee/record=b5294686*est

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 of anionic substitutions on apatite structure and properties

Veiderma, Mihkel; Tõnsuaadu, Kaia; Knubovets, Rena; Peld, Merike Journal of organometallic chemistry 2005 / 10, p. 2638-2643 : ill

Impact of Nb content on the morphology and properties of Ti (C0.5N0.5)-FeCrMo-based green cermets

Maurya, Himanshu Singh; Tarraste, Marek; Viljus, Mart; Juhani, Kristjan; Sergejev, Fjodor; Kübarsepp, Jakob Ceramics international 2024 / 10 p <https://doi.org/10.1016/j.ceramint.2024.11.188>

Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting

Salman, O. O.; Brenne, F.; Niendor, T.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Journal of Manufacturing Processes 2019 / p. 255-261 : ill <https://doi.org/10.1016/j.jmapro.2019.07.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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>

Increase of fatigue strength of threaded joints

Strižak, Viktor; Meng, Valentin Fatigue Design 1998, Espoo, Finland, 26-29 May, 1998. Vol. 2 1998 / p. 625-636: ill

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

Influence of aqueous solutions of organic substances on structure and properties of pinewood (*Pinus sylvestris*) = Orgaaniliste ainete vesilahuste mõju männipuidu (*Pinus sylvestris*) struktuurile ja omadustele
Meier, Pille 2007 https://www.ester.ee/record=b2233997*est

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 extraction methods on the raw material physic-mechanical properties of fillers
Šommet, Julija EUROCK 2010 : Rock Mechanics in Civil and Environmental Engineering 2010 / p. 841-843
<https://www.taylorfrancis.com/chapters/edit/10.1201/b10550-201/influence-extraction-methods-raw-material-physicomechanical-properties-fillers-shommet>

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 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 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>

The influence of process parameters on the microstructure and properties of the TiC/Ti-alloy composites fabricated by the directed energy deposition process
Wang, Yongxia; Fan, Wei; Zhou, Fan; Prashanth, Konda Gokuldoss; Feng, Zhe; Zhang, Siyu; Tan, Hua; Lin, Xin Journal of materials research and technology 2025 / p. 164-174 <https://doi.org/10.1016/j.jmrt.2024.12.043>

Influence of strain rate and temperature on mechanical properties and fracture mechanism of the dispersion strengthened Al-12Al₄C₃ system
Velgosova, Oksana; Besterici, Michal; Kulu, Priit Materials science = Medžiagotyra 2005 / p. 217-220 : ill
https://www.researchgate.net/publication/242220059_Influence_of_Strain_Rate_and_Temperature_on_Mechanical_Properties_and_Fracture_Mechanism_of_Dispersion_Strengthened_Al12Al4C3_System

Influence of strong carbide-forming elements (Nb and Ta) on the development of the green (Ti, Me)(C,N)-high chromium Fe-based cermets
Maurya, Himanshu Singh; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Kumar, Rahul, 1993-; Hussain, Abrar; Sergejev, Fjodor; Kübarsepp, Jakob Vacuum 2024 / art. 113723, 12 p <https://doi.org/10.1016/j.vacuum.2024.113723>

Influence of substrate plate heating on the fabrication of Al-12Si produced by selective laser melting
Xi, L. X.; Ma, Pan; Jia, Yandong; Chaubey, A. K.; Wang, Z.; Prashanth, Konda Gokuldoss Transactions of the Indian National Academy of Engineering 2021 / p. 1027-1036 <https://doi.org/10.1007/s41403-021-00240-z>

Influence of the fiber orientations on the fracture of fiber concrete

Herrmann, Heiko; Braunbrück, Andres; Marjapuu, Rasmus-Richard; Tuisk, Tanel M2D2017 : proceedings of the 7th International Conference on Mechanics and Materials in Design : (Albufeira/Portugal, 11-15 June 2017) 2017 / p. 631-632 : ill https://paginas.fe.up.pt/~m2d/Proceedings_M2D2017/data/papers/Book.pdf

The influence of thermal dilution on the microstructure evolution of some combustion-synthesized refractory ceramic composites

Aydinyan, Sofiya; Kharatyan, Suren; **Hussainova, Irina** Crystals 2022 / art. 59 <https://doi.org/10.3390/cryst12010059> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interdependence between point load index, compressive strength and crushing resistance of Jordan oil shale and relation to calorific value

Väizene, Vivika; Valgma, Ingo; Reinsalu, Enno; Pastarus, Jüri-Rivaldo; Kaisla, Erkki Oil shale 2015 / p. 252-268 : ill https://artiklid.elnet.ee/record=b2740514*est <https://doi.org/10.3176/oil.2015.3.05> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of dynamic mechanical properties of Estonian clay Arumetsa during firing

Štubna, Igor; Hulan, Tomaš; Kaljuvee, Tiit; Vozár, Libor Applied clay science 2018 / p. 23-28 : ill <https://doi.org/10.1016/j.clay.2017.11.038> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of efficient alkali treatment and the effect of flame retardant on the mechanical and fire performance of frost-retted hemp fiber reinforced PLA

Alao, Percy Festus; Press, Raimond; Kallakas, Heikko; Ruponen, Jussi; Poltimäe, Triinu; Kers, Jaan Polymers 2022 / art. 2280 <https://doi.org/10.3390/polym14112280> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of mechanical and physicochemical properties of clinically retrieved titanium-niobium orthodontic archwires

Stoyanova-Ivanova, Angelina; Cherneva, Sabina; Petrunov, Vladimir; Petrova, Violeta; Ilievska, Ivana; Mikli, Valdek; Iankov, Roumen Acta of bioengineering and biomechanics 2020 / p. 31-39 <https://doi.org/10.37190/ABB-01486-2019-03> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of the fatigue mechanics aspects of PM hardmetals and cermets = Pulberkõvasulamite ja -kermiste väsimusmehaanika aspektide uurimine

Sergejev, Fjodor 2007 https://www.ester.ee/record=b2350243*est

Karbonaatsete kivimite füüsikalise-mehaanilise näitajaid oleks vaja ühtlustada

Aigro, Marleen; Jürgenson, Voldemar Keskkonnatehnika 2011 / lk. 38-39 https://artiklid.elnet.ee/record=b2400259*est

Kivimi tugevusomaduste määramine mobiilsete katseseadmetega

Karu, Veiko; Anepaio, Ain Killustiku kaevandamine ja kasutamine : [artiklite kogumik] 2008 / lk. 40-45 : ill

Konstruktioonimaterjalide mehaanika : täienduskursus : jaanuar 2008 - märts 2008 : põhineb projektil "Täiendkoolitus- ja e-õppe süsteemi väljaarendamine materjali-tehnoloogidele ja kvaliteediinseneridele polümeer- ja komposiitmaterjalide valdkonnas Põhjamaade ja Euroopa tehnikaülikoolide kogemustest lähtudes"

Saarna, Mart 2008? https://www.ester.ee/record=b4652774*est

Kuumvaltsitud legerimata konstruktsiooniterasest tooted. Tehnilised tarnetingimused

Loorits, Kalju; Soonurm, Enno; Otsmaa, Vello 2000 https://www.ester.ee/record=b1444276*est

Laser additive manufacturing of nano-TiC particles reinforced CoCrFeMnNi high-entropy alloy matrix composites with high strength and ductility

Chen, Hongyi; Lu, Twen; Prashanth, Konda Gokuldoss; Kosiba, Konrad Materials Science and Engineering : A 2022 / art. 142512 <https://doi.org/10.1016/j.msea.2021.142512> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Laser powder-bed fusion of ceramic particulate reinforced aluminum alloys: a review

Minasyan, Tatevik; Hussainova, Irina Materials 2022 / art. 2467 <https://doi.org/10.3390/ma15072467> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Local tribo-mechanical properties of TiC-based cermets by nanoindentation

Sergejev, Fjodor Proceedings of 14th Nordic Symposium on Tribology : NORDTRIB 2010 : 08.06-11.06.2010, Storforsen, Sweden 2010 / [8] p. [CD-ROM]

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>

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 tribological properties of 100-nm thick alumina films prepared by atomic layer deposition on Si(100) substrates

Alamgir, Asad; Bogatov, Andrei; Yashin, Maxim; Podgurski, Vitali Proceedings of the Estonian Academy of Sciences 2019 / p. 126-130 : ill <https://doi.org/10.3176/proc.2019.2.01> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-126-130.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical analysis of multi-surface TPMS lattices for bone applications

Hussainova, I.; Rezapourian, M. Proceedings of the Estonian Academy of Sciences 2025 / p. 222-227 <https://doi.org/10.3176/proc.2025.2.25>

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" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 33-34

Mechanical and tribological behavior of gravity and squeeze cast novel Al-Si alloy

Chandra, Vadlamudi Srinivasa; Sivaprasad, Katakam; Dhanasekaran, Subramaniam; Prashanth, Konda Gokuldoss Metals 2022 / art. 194 <https://doi.org/10.3390/met12020194>

Mechanical characteristics of the AC linear drives

Soonpuu, Jelizaveta; Jansikene, Raik 44. Internationales Wissenschaftliches Kolloquium : Technische Universität Ilmenau : 20.-23.09.1999 1999

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 characterization and wear performance of WC–ZrO2–Ni cermets produced by hot isostatic pressing

Hussainova, Irina; Smirnov, Anton; Antonov, Maksim Advances in Key Engineering Materials 2011 / p. 344-348 : ill

Mechanical properties and features of erosion of cermets

Hussainova, Irina; Jevgrafova, Natalja Book of abstracts of 4th EUROMECH Solid Mech. Conf 2000 / p. 509

Mechanical properties and features of erosion of cermets

Hussainova, Irina; Pirso, Jüri; Kübarsepp, Jakob Abstracts of 13th International Conference on Wear of Materials 2001 / p. 99

Mechanical properties and features of erosion of cermets

Hussainova, Irina; Kübarsepp, Jakob; Pirso, Jüri Wear 2001 / p. 818-825

Mechanical properties and features of erosion of cermets

Hussainova, Irina; Kübarsepp, Jakob 4th EUROMECH : Solid Mechanics Conference, Metz, France, June 26-30, 2000 : book of abstracts II, general sessions 2000 / p. 509

Mechanical properties and fracture developed in nanocopper by severe plastic deformations

Besterci, Michal; Kvackaj, Tibor; Kovac, Ladislav; Sülleiova, Katarina; **Kulu, Priit** 15th International Baltic Conference "Engineering Materials & Tribology. Baltattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 22

Mechanical properties and fracture of nanocopper by severe plastic deformations

Besterci, Michal; Kvackaj, Tibor; Kovac, Ladislav; Sülleiova, Katarina; **Kulu, Priit** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 340-348 : ill

Mechanical properties and microstructural evolution of Ti-25Nb-6Zr alloy fabricated by spark plasma sintering at different temperatures

Zhu, Qing; Chen, Peng; Xiao, Qiushuo; Li, Fengxian; Yi, Jianhong; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen Metals 2022 / art. 1824 <https://doi.org/10.3390/met12111824> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical properties and microstructure of reactive sintered WC-TiC-Co cemented carbides

Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunovitš, Sergei Proceedings of the 2012 Powder Metallurgy World Congress & Exhibition 2012
https://www.researchgate.net/publication/239937576_Mechanical_Properties_and_Microstructure_of_Reactive_Sintered_WC-TiC-Co_Cemented_Carbides

Mechanical properties and wear performance of compression sintered TiC based cermets

Klaasen, Heinrich; Kollo, Lauri; Kübarsepp, Jakob Powder metallurgy 2007 / 2, p. 132-136

Mechanical properties of aluminum, zirconium, hafnium and tantalum oxides and their nanolaminates grown by atomic layer deposition

Jõgiaas, Taivo; Zabels, Roberts; Tamm, Aile; Merisalu, Maido; **Hussainova, Irina** Surface and coatings technology 2015 / p. 36-42 : ill <https://doi.org/10.1016/j.surfcoat.2015.10.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical properties of chromium carbide based cermets at micro-level

Hussainova, Irina; Jasiuk, Iwona; Du, X.; Cabassa, D.; **Pirso, Jüri** Advances in powder metallurgy & particulate materials 2008 : proceedings of the 2008 World Congress on Powder Metallurgy & Particulate Materials. IV 2009 / p. 180-191

Mechanical properties of chromium carbide based cermets at micro-level [Electronic resource]

Hussainova, Irina; Jasiuk, Iwona; Du, X.; Cabassa, D.; **Pirso, Jüri** Proceedings of the PM08 World Congress on Powder Metallurgy and Particulate Materials : Washington, NY, USA, June 12-16 2008 / ? p. [CD-ROM]

Mechanical properties of hard metals and their erosive wear resistance

Reshetnjak, Heinrich; **Kübarsepp, Jakob** Wear 1994 / p. 185-193: ill

Mechanical properties of pinewood (Pinus Sylvestris) swollen in organic liquids

Meier, Pille; **Stöör, Eve**; **Kaps, Tiit**; **Kallavus, Urve** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 2, p. 125-133 : ill

Mechanical properties of pinewood treated with aqueous solutions of organic substances

Meier, Pille; **Stöör, Eve**; **Kallavus, Urve**; **Kaps, Tiit** WCTE 2008 Conference Proceedings : 10th World Conference on Timber Engineering : Miyazaki, Japan, June 2-5, 2008. Vol. 2 2009 / p. 828-833
https://www.researchgate.net/publication/290588139_Mechanical_properties_of_pinewood_treated_with_aqueous_solutions_of_organic_substances

Mechanical properties of polymers recovered from multilayer food packaging by nitric acid

Šleiniūtė, Agnė; Mumladze, Tamari; Denafas, Gintaras; Makarevičius, Vidas; Kriūkienė, Rita; **Antonov, Maksim**; Vasarevičius, Saulius Sustainability (Switzerland) 2024 / art. 2106 <https://doi.org/10.3390/su16052106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical properties of thin hard coatings on TiC-NiMo substrates

Yaldiz, Can Emrah; **Veinthal, Renno**; **Gregor, Andre**; Georgiadis, Kyriakos Estonian journal of engineering 2009 / 4, p. 329-339 : ill

Mechanoenergetics of a single cardiomyocyte = Ühe südameraku mehaanoenergeetika

Kalda, Mari 2015 https://www.ester.ee/record=b4525654*est

Mehaanikas perspektiivsete kilede omaduste uurimine : aruanne : G443 : teadussuuna klass 2.2, 2.10

Mikli, Valdek 1994 https://www.ester.ee/record=b2084804*est

Mechanical properties of PVD coatings on TiC-based cermets

Veinthal, Renno; Yaldiz, Can Emrah; **Gregor, Andre** 1st Mediterranean Conference on Heat Treatment and Surface Engineering : Heat Treatment and Surface Engineering in the Manufacturing of Metallic Engineering Components : December 1-3, 2009, Sharm El-Sheikh, Egypt 2009 / p. 54

Metallide tähtsamate mehaanikaliste omaduste määramine

Masing, Juhan Masinaehitaja käsiraamat. 1. kd 1968 / lk. 578-585 https://www.ester.ee/record=b1298495*est

Metalliõpetus ja metallide tehnoloogia. IV, Mehaanilised omadused ja teimimine. Mittepurustav kontroll : eesti-inglise-saksa-vene terminid ja määratlused

2001 http://www.ester.ee/record=b1540220*est

Metallmaterjalid. Löökpaindeteim Charpy meetodil

Üksti, Lembit; Kulu, Priit; Raukas, Uusi 2000 https://www.ester.ee/record=b1370814*est

Metallmaterjalid. Löökpaindeteim Charpy meetodil

Üksti, Lembit; Märtonson, Ivar; Raukas, Uusi 2000 https://www.ester.ee/record=b1370821*est

Metallmaterjalid. Löökpaindeteim Charpy meetodil. Osa 1, Katsetootodika

Üksti, Lembit; Kompus, Valdo 1997

Metallmaterjalid. Löökpõndliga katsemasina taatlemine

Üksti, Lembit; Kompus, Valdo 1997

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](#)

Method elaboration for measuring the structural-mechanical properties of genuine gel and chewing candies

Arumeel, Liisi; Heinamägi, Birgit; **Vokk, Raivo** Food and nutrition = Toit ja toitumine 2003 / p. 11-20 : ill

A method of using miniature samples for determining mechanical properties of metal of power-generating equipment at thermal power stations in Estonia

Klevtsov, Ivan; Nešumajev, Dmitri; Dedov, Andrei Thermal engineering 2009 / p. 426-431 <https://doi.org/10.1134/S0040601509050127>

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](#)

Micromechanical properties and erosive wear performance of chromium carbide based cermets

Hussainova, Irina; Jasiuk, Iwona; Sardela, M.; Antonov, Maksim Wear 2009 / p. 152-159 : ill

Micromechanical properties and wear resistance of powder coatings

Veinthal, Renno; Zimakov, Sergei; Kulu, Priit Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 216-219 : ill

Microstructural and mechanical behaviour of friction welded SS316L components fabricated by selective laser melting

Dinesh, Lanka; Damodaram, R.; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Materials today communications 2023 / art. 107430 <https://doi.org/10.1016/j.mtcomm.2023.107430> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 fatigue mechanics of hardmetals and cermets

Preis, Irina; Sergejev, Fjodor Macchine Utensili 2004 / July, p. 66-70

Microstructural evolution and mechanical properties of nanostructured copper

Kommel, Lembit; Hussainova, Irina; Volobujeva, Olga; Lõhmus, Rünno Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 3, p. 187-197 : ill

Microstructural evolution and mechanical properties of selective laser melted Ti-6Al-4V induced by annealing treatment

Wang, Pei; Chen, Feng-hua; Eckert, J.; Pilz, S.; Scudino, S.; **Prashanth, Konda Gokuldoss** Journal of Central South University 2021 / p. 1068-1077 : ill <https://doi.org/10.1007/s11771-021-4680-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructural evolution and mechanical properties of Ti(C,N)-FeCrMo-based green cermets

Maurya, Himanshu Singh; Juhani, Kristjan; Viljus, Mart; Sergejev, Fjodor; Kübarsepp, Jakob Ceramics international 2024 / p. 8695-8705 <https://doi.org/10.1016/j.ceramint.2023.12.186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructural, mechanical, corrosion, and biological behavior of spark plasma sintered commercially pure zinc for biomedical applications

Yadav, Mayank Kumar; Shukla, Riddhi Hirenkumar; Praveenkumar, K.; Nilawar, Sagar; Perugu, Chandra Sekhar; Sellamuthu, Prabhukumar; Chatterjee, Kaushik; Suwas, Satyam; Jayaraj, Jayamani; Prashanth, Konda Gokuldoss Materials advances 2025 <https://doi.org/10.1039/D5MA00092K>

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 performances of NiCoFeAlTi high-entropy intermetallic reinforced CoCrFeMnNi high-entropy alloy composites manufactured by selective laser melting

Yang, Hong; Ma, Pan; Zhang, Zhiyu; Xie, Xiaochang; Yang, Ping; Zhang, Han; Jia, Yandong; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2024 / p. 6275-6287 <https://doi.org/10.1016/j.jmrt.2024.11.022>

Microstructure and mechanical properties of Al-(12-20)Si bi-material fabricated by selective laser melting

Zhang, Shikai; Ma, Pan; Jia, Yandong; Yu, Zhishui; Sokkalingam, Rathinavelu; Shi, Xuerong; Ji, Pengcheng; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Materials 2019 / art. 2126, 11 p. : ill <https://doi.org/10.3390/ma12132126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and mechanical properties of AlCoCrFeMnNi HEAs fabricated by selective laser melting

Ma, Pan; Fang, Yacheng; Wei, Shuimiao; Zhang, Zhiyu; Yang, Hong; Wan, Shiguang; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of materials research and technology 2023 / p. 7090-7100 <https://doi.org/10.1016/j.jmrt.2023.07.124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and mechanical properties of HEA alloys fabricated by selective laser melting of powder mixtures

Karimi, Javad; Prashanth, Konda Gokuldoss GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 24 https://fmttk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

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 physical-mechanical properties evolution of pure tantalum processed with hard cyclic viscoplastic deformation

Kommel, Lembit; Omranpour Shahreza, Babak; Mikli, Valdek International journal of refractory metals and hard materials 2019 / art. 104983, 10 p. : ill <https://doi.org/10.1016/j.jrmhm.2019.104983> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and properties characterization of polycrystalline Ni-Fe-Cr-based superalloy EP-718E after electric upsetting

Kommel, Lembit Engineering materials and tribology XXV 2017 / p. 467-472 <https://doi.org/10.4028/www.scientific.net/KEM.721.467> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Microstructure and properties development of copper during severe plastic deformation

Kommel, Lembit; Hussainova, Irina; Volobujeva, Olga Materials & design 2007 / 7, p. 2121-2128 : ill <https://www.sciencedirect.com/science/article/pii/S0261306906001713>

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 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 properties, and corrosion behavior of 06Cr15Ni4CuMo processed by using selective laser melting

Maya, Jayaraman; Sivaprasad, Katakam; Kumar, Guttula Venkata Sarath; Baitimerov, Rustam; Lykov, Pavel; **Prashanth, Konda Gokuldoss** Metals 2022 / art. 1303 <https://doi.org/10.3390/met12081303> [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, texture and mechanical properties of cyclic expansion-extrusion deformed pure copper

Pardis, N.; Chen, C.; Ebrahimi, R.; **Kommel, Lembit** Materials science and engineering : A 2015 / p. 423-432 : ill <https://doi.org/10.1016/j.msea.2015.01.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Millist tsementi kasutada?

Raado, Lembi-Merike Ehitaja 2004 / 10, lk. 43-45 ; 11, lk. 44-49 : ill https://artiklid.elnet.ee/record=b1016662*est

Mittesümmeetiline lülitatav piiratud libisemisega diferentsiaal

Resev, Jüri; **Roosimölder, Lembit** Põllumajandustehnika, -ehitus ja -energeetika 2001 / lk. 210-215 : ill https://artiklid.elnet.ee/record=b1033371*est

Mo-Cu pseudoalloys by combustion synthesis and spark plasma sintering

Minasyan, Tatevik; Kirakosyan, Hasmik; **Aydinyan, Sofiya**; Liu, Lei; Kharatyan, Suren; **Hussainova, Irina** Journal of materials science 2018 / p. 16598–16608 <https://doi.org/10.1007/s10853-018-2787-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modified procedure for buckling of steel columns at elevated temperatures

Kervalishvili, Andrei; Talvik, Ivar Journal of Constructional Steel Research 2016 / p. 108 - 119 <https://doi.org/10.1016/j.jcsr.2016.07.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-objective machine learning optimization of cylindrical TPMS lattices for bone implants

Rezapourianghahfarokhi, Mansoureh; Cheloe Darabi, Ali; Khoshbin, Mohammadreza; **Hussainova, Irina** Biomimetics 2025 / art. 475 <https://doi.org/10.3390/biomimetics10070475>

Mõningate tehnoloogiliste faktorite mõju uurimine magnetdielektrikute mehaanilistele omadustele

Peenoja, K.; Tõkke, V.; Ritso, Aadu; **Laansoo, Andres** XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 81 https://www.ester.ee/record=b2449987*est

Nanoindentation and surface characterization of clinically retrieved multi-force niti orthodontic archwires

Cherneva, Sabina; Stoyanova-Ivanova, Angelina K.; Georgieva, Mirela; Andreeva, Laura A.; Petkov, Alexander; Petrov, Valeri G.; Petrova, Violeta P.; **Mikli, Valdek** Russian Journal of Biomechanics 2020 / p. 240-256 <https://doi.org/10.15593/RJBiomech/2020.3.02> <https://ered.pstu.ru/index.php/rjb/article/view/2303> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

Necessity of mechanical properties testing for service exposed power plant steels

Klevtsov, Ivan; **Bogoljubova, Elena**; **Bojarinova, Tatjana**; **Dedov, Andrei** 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 161-163 : ill

A novel crack-free Ti-modified Mo alloy designed for laser powder bed fusion

Zhang, Cheng; Wang, Pei; Liu, C. Y.; Liu, Zhiyuan; Wu, Mingwei; Gao, X. H.; Li, M. H.; Yang, Chao; **Prashanth, Konda Gokuldoss**; Chen, Zhangwei Journal of alloys and compounds 2022 / art. 164802 <https://doi.org/10.1016/j.jallcom.2022.164802> [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](#)

Novel pathway for the combustion synthesis and consolidation of boron carbide

Zakaryan, Marieta; Zurnachyan, Alina; Amirkhanyan, Narine; Kirakosyan, Hasmik; **Antonov, Maksim**; Rodriguez, Miguel Angel; **Aydinyan, Sofiya** Materials 2022 / art. 5042 <https://doi.org/10.3390/ma15145042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical study on the effect of geometry on mechanical behavior of triply periodic minimal surfaces

Rezapourianghahfarokhi, Mansoureh; Kamboj, Nikhil Kumar; **Hussainova, Irina** IOP conference series : materials science and engineering 2021 / art. 012038 <https://doi.org/10.1088/1757-899X/1140/1/012038>

Obtaining strength-ductility combination in a laser additive manufactured (FeCoNi)₈₆Al₇Ti₇ high-entropy alloy at cryogenic temperature

Xie, K.; Fang, Y.; Ma, P.; Yang, H.; Wan, S.; **Prashanth, Konda Gokuldoss**; Gargarella, P.; Mu, Y.; Wang, G.; Jia, Y. Journal of materials research and technology 2025 / p. 819-831 <https://doi.org/10.1016/j.jmrt.2024.12.125>

Optimal material orientation of linear and non-linear elastic 3D anisotropic materials

Majak, Jüri; Pohlak, Meelis Meccanica 2010 / 5, p. 671-680 : ill https://www.researchgate.net/publication/225119702_Optimal_material_orientation_of_linear_and_non-linear_elastic_3D_anisotropic_materials

Optimal mechanical properties of Hydroxyapatite gradient Voronoi porous scaffolds for bone applications — a numerical study

Rezapourianghahfarokhi, Mansoureh; **Hussainova, Irina** Journal of the mechanical behavior of biomedical materials 2023 / art. 106232 <https://doi.org/10.1016/j.jmbbm.2023.106232> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of mechanical strength of titania fibers fabricated by direct drawing

Hanschmid, Kelli; Tätte, Tanel; **Hussainova, Irina** Applied physics. A, Materials science & processing 2013 / p. 663-671 : ill <https://doi.org/10.1007/s00339-013-7601-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of WC-Ni-ZrO₂ structure

Voltšihhin, Nikolai; **Hussainova, Irina**; Traksmäa, Rainer; Juhani, Kristjan ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 / 8 p. : ill <http://www.escm.eu.org/eccm15/data/assets/296.pdf>

Overview of Hard Cyclic viscoplastic Deformation as a new SPD method for modifying and studying the structure and properties of Cu-alloys

Kommel, Lembit Materials Transactions 2024 / p. 109-118 <https://doi.org/10.2320/matertrans.MT-M2023136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview of hard cyclic viscoplastic deformation as a new SPD method for modifying the structure and properties of niobium and tantalum

Kommel, Lembit Nanotechnology and advanced material science 2024 / 15 p <https://doi.org/10.31038/NAMS.2024721>

Paagutatud ja sepiatatud terase struktuur ja omadused

Pajundi, H.; Kulu, Priit; **Jakovlev, B.** XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 79 https://www.ester.ee/record=b2449987*est

Paberi happesuse ja mehaaniliste omaduste muutumine vanandamisel kliimakambris

Kriiska, K.; **Kallavus, Urve**; Siiner, M. XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 62-63

Parametric optimization of selective laser melted 13Ni400 maraging steel by Taguchi method

Patil, Viraj Vishwas; Mohanty, Chinmaya P.; **Prashanth, Konda Gokuldoss** Journal of manufacturing and materials processing 2024 / art. 52 <https://doi.org/10.3390/jmmp8020052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Perspectives of metal-diamond composites additive manufacturing using SLM-SPS and other techniques for increased

wear-impact resistance

Rahmani Ahranjani, Ramin; Brojan, Miha; **Antonov, Maksim**; **Prashanth, Konda Gokuldoss** International journal of refractory metals and hard materials 2020 / art. 105192, 13 p. : ill <https://doi.org/10.1016/j.ijrmhm.2020.105192> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phase equilibrium evolution in single-crystal Ni-based superalloys

Kommel, Lembit Superalloys 2015 / p. 171-202 : ill <http://dx.doi.org/10.5772/61102>

Phase formation, microstructure and mechanical properties of Mg67Ag33 as potential biomaterial

Kosiba, Konrad; **Prashanth, Konda Gokuldoss**; Scudino, Sergio Metals 2021 / art. 461, 10 p. : ill <https://doi.org/10.3390/met11030461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phases micromechanical properties of Ni-base superalloy measured by nanoindentation

Kommel, Lembit; **Kimmari, Eduard**; **Viljus, Mart**; **Traksmaa, Rainer**; **Volobujeva, Olga**; **Kommel, Igor** Materials science = Medžiagotyra 2012 / p. 28-33 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1337>

Photocurrent generation in carbon nanotube/cubic-phase HfO₂ nanoparticle hybrid nanocomposites

Rauwel, Protima; Galeckas, Augustinas; **Salumaa, Martin**; Ducroquet, Frederiquet; **Rauwel, Erwan** Beilstein journal of nanotechnology 2016 / p. 1075-1085 : ill <https://doi.org/10.3762/bjnano.7.101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Plastmassist hammasrataste arvutamine ja kasutamine

Štšerbakov, A.; **Strižak, Viktor** XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 116 https://www.ester.ee/record=b1322611*est

Powder metallurgy of Al_{0.1}CoCrFeNi high-entropy alloy

Sokkalingam, Rathinavelu; **Tarraste, Marek**; Surreddi, Kumar Babu; **Mikli, Valdek**; Muthupandi, Veerappan; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Journal of materials research 2020 / p. 2835-2847 <https://doi.org/10.1557/jmr.2020.272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preliminary investigation into mechanical properties of clay reinforced with natural fibres

Peetsalu, Priidu; Resev, Jüri; Ruus, Aime; Menind, Andres; **Kers, Jaan**; **Sepper, Sirli**; Olt, Jüri Agronomy research 2010 / S1, p. 201-207 : ill

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://matsc.ktu.lt/index.php/MatSc/article/view/2435>

Premature failure of an additively manufactured material

Wang, Zhi; Xie, Meishen; Li, Yuanyuan; Zhang, Weiwen; Yang, Chao; **Kollo, Lauri**; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Npg Asia materials 2020 / art. 30, 10 p. : ill <https://doi.org/10.1038/s41427-020-0212-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Processing and mechanical properties of ZrC-ZrO₂ composites

Voltšihhin, Nikolai; **Hussainova, Irina**; **Kübarssepp, 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 and properties of bulk ultrafine-grained pure niobium

Kommel, Lembit; **Kimmari, Eduard**; **Saarna, Mart**; **Viljus, Mart** Journal of materials science 2013 / p. 4723-4729 : ill <https://doi.org/10.1007/s10853-013-7210-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Processing and properties of zirconia toughened WC-based cermets

Hussainova, Irina; **Voltšihhin, Nikolai**; Cura, M. Erkin; Hannula, Simo-Pekka Proceedings of the 37th Int'l Conf & Expo on Advanced Ceramics & Composites (ICACC 2013) 2013 / 1-7 : ill

Processing and properties of zirconia toughened WC-based cermets

Hussainova, Irina; **Voltšihhin, Nikolai**; Cura, M. Erkin; Hannula, Simo-Pekka Advanced processing and manufacturing technologies for structural and multifunctional materials 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. 97-103 <https://ceramics.onlinelibrary.wiley.com/doi/abs/10.1002/9781118807965.ch11> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Processing of Al-based composite material by selective laser melting: A perspective

Prashanth, Konda Gokuldoss Materials today: proceedings 2022 / p. 498-504 <https://doi.org/10.1016/j.matpr.2022.01.391> [Conference proceeding at Scopus](#) [Article at Scopus](#) [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](#)

Processing route effects on NbC-Fe-Ni cermets: Improving mechanical properties via mechanical alloying

Basit, Abdul; Ali, Sadaqat; Umer, Malik Adeel; Anwar, Furqan International journal of refractory metals and hard materials 2025 / art. 107372 <https://doi.org/10.1016/j.jirmhm.2025.107372>

A promising approach to solid-state hydrogen storage : mechanical nanostructuring synthesis of magnesium by high pressure torsion extrusion

Omranpour Shahreza, Babak; Sergejev, Fjodor; Ivanisenko, Julia; Huot, Jacques Advances in science and technology (volume 134). 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. 43-51 <https://doi.org/10.4028/p-4ccBoQ>

Properties and chemical composition of pinewood

Meier, Pille; Reiska, Rein; Mikkiver, J. 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 44

Properties development of ultrafine-grained copper under hard cyclic viscoplastic deformation

Kommel, Lembit Materials letters 2010 / p. 1580-1582 : ill <https://www.sciencedirect.com/science/article/pii/S0167577X10003526>

Puidu kasutamisel hoonete rajamisel nõrkadele ja tugevasti kokkusurutavatele pinnastele

Oll, Nikolai 1957 http://www.ester.ee/record=b2139471*est

Puidu visuaalse tugevussortimise reeglid

Reiska, Rein; Just, Elmar-Jaan; Meier, Pille 2002 https://www.ester.ee/record=b1620147*est

Puitkonstruktsioonid : ehituspuit ja liimpuit. Mõnede füüsikaliste ja mehaaniliste omaduste määramine = Timber structures : structural timber and glued laminated timber. Determination of some physical and mechanical properties

2011 https://www.ester.ee/record=b2730283*est

Puitkonstruktsioonid : tüübeltüüpi kinnitusdetailid : nõuded = Timber structures : dowel-type fasteners : requirements

2023 https://www.ester.ee/record=b5547726*est

Puitkonstruktsioonid. Ehituspuit ja liimpuit. Mõnede füüsikaliste ja mehaaniliste omaduste määramine

Õiger, Karl; Soonurm, Enno 2002 https://www.ester.ee/record=b1736745*est

Puitkonstruktsioonid. Ehituspuit ja liimpuit. Mõnede füüsikaliste ja mehaaniliste omaduste määramine

Õiger, Karl; Reiska, Rein 2005 https://www.ester.ee/record=b2088234*est

Puitkonstruktsioonid. Ehituspuit ja liimpuit. Nihketugevuse ja mehaaniliste omaduste määramine ristikiudu

Just, Elmar-Jaan 2002 https://www.ester.ee/record=b1629798*est

Puitlaastplaadid. Puitlaastplaatide pinnatugevus. Katsemeetod

Reiska, Rein 2002 https://www.ester.ee/record=b1620194*est

Puitplaadid. Paindeelastsusmooduli ja paindetugevuse määramine

Reiska, Rein 2002 https://www.ester.ee/record=b1620166*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](#)

Reactive sintered chromium and titanium carbide-based cermets = Reaktsioonpaagutatud kroom- ja titaankarbiidsed kermised

Juhani, Kristjan 2009 https://www.ester.ee/record=b2498183*est

Reactive sintering of bimodal WC-Co hardmetals

Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart Medžiagotyra = Materials science 2015 / p. 382-385 : ill <https://doi.org/10.5755/j01.ms.21.3.7511> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reactive sintering of (Ti,W)C-Ni and TiC-FeNiSi cermets from high-energy milled powders

Kollo, Lauri; Volobujeva, Olga Proceedings of European Powder Metallurgy Congress : EURO PM2007 : Toulouse (France), 15-17 October 2007. Vol. 1 2007 / p. 227-231 https://www.researchgate.net/publication/287638623_Reactive_sintering_of_TiWC-Ni_and_TiC-FeNiSi_cermets_from_high-energy_milled_powders

Recent advances in additive manufacturing of refractory high entropy alloys (RHEAs): A critical review

Yarlapati, Akshaya; Aditya, Y. N.; Kumar, Deepak; Vikram, Raja Jothi; Yadav, Mayank Kumar; Reddy, Kallem Shekharf; **Prashanth, Konda Gokuldoss** Journal of alloys and metallurgical systems 2024 / art. 100120 <https://doi.org/10.1016/j.jalms.2024.100120>

Response of stress relieving and solution annealing treatment on tensile properties and fracture toughness of additively manufactured stainless steel 316L

Kumar, Deepak; Arya, Abhinav; Dutta, Shubhendu Anupam; Jhavar, Suyog; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Journal of Materials Engineering and Performance 2025 / art. 145021 <https://doi.org/10.1007/s11665-025-11334-y>

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

Šumigin, Dmitri; Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Meier, Pille BIOCAMP 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

Selective laser melted Ti6Al4V split-P TPMS lattices for bone tissue engineering

Rezapourianghahfarokhi, Mansoureh; Jasiuk, Iwona; **Sarna, Mart; Hussainova, Irina** International journal of mechanical sciences 2023 / art. 108353 <https://doi.org/10.1016/j.jimecsci.2023.108353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of 316L stainless steel : Influence of TiB2 addition on microstructure and mechanical properties

Salaman, O. O.; Gammer, C.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Materials today communications 2019 / art. 100615, 7 p. : ill <https://doi.org/10.1016/j.mtcomm.2019.100615> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of Al-7Si-0.5 Mg-0.5Cu : effect of heat treatment on microstructure evolution, mechanical properties and wear resistance

Wang, Pei; Yu, Sijie; Shergill, Jaskarn; Chaubey, Anil; Eckert, Jürgen; **Prashanth, Konda Gokuldoss**; Scudino, Sergio Acta Metallurgica Sinica (English Letters) 2022 / p. 389–396 : ill <https://doi.org/10.1007/s40195-021-01279-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of AlCoCrFeMnNi high entropy alloy : effect of heat treatment

Fang, Yacheng; Ma, Pan; Wei, Shuimiao; Zhang, Zhiyu; Yang, Dongye; Yang, Hong; Wan, Shiguang; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of materials research and technology 2023 / p. 7845-7856 <https://doi.org/10.1016/j.jmrt.2023.09.121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of Cu-Ni-Sn : a comprehensive study on the microstructure, mechanical properties, and deformation behavior

Zhao, Chao; Wang, Zhi; Li, Daoxi; **Kollo, Lauri**; Luo, Zongqiang; Zhang, Weiwen; **Prashanth, Konda Gokuldoss** International journal of plasticity 2021 / art. 102926 <https://doi.org/10.1016/j.jiplas.2021.102926> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of nanostructured Al-Y-Ni-Co alloy

Wang, Zhi; Scudino, Sergio; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Manufacturing letters 2020 / p. 21–25 <https://doi.org/10.1016/j.mfglet.2020.06.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of TiC-Fe via laser pulse shaping : microstructure and mechanical properties

Maurya, Himanshu Singh; Kollo, Lauri; Tarraste, Marek; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss 3D Printing and Additive Manufacturing 2023 / p. 640-649 <https://doi.org/10.1089/3dp.2021.0221> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selgase leiukoha paekivi omadusi

Põldme, Meeme; Kallavus, Urve; Schvede, Jüri XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 109-110 : ill

SHS-derived powders by reactions' coupling as primary products for subsequent consolidation

Aydinyan, Sofiya; Kharatyan, Suren; **Hussainova, Irina** Materials 2021 / art. 5117 <https://doi.org/10.3390/ma14175117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sidumata segud. Spetsifikatsioonid = Unbound mixtures. Specifications

2011 https://www.ester.ee/record=b2652583*est

Sille; Sitkus

Raukas, Uusi Eesti entsüklopeedia. 8 1995 / lk. 500, 527

A simple algorithm for formability analysis

Majak, Jüri; Pohlak, Meelis; Küttner, Rein Journal of achievements in materials and manufacturing engineering 2007 / 1, p. 57-60 : ill https://www.researchgate.net/publication/40784145_A_simple_algorithm_for_formability_analysis

Sinter/HIP technology of TiC-based cermets = Titaankarbiidkermiste survepaagutustehnoloogia

Kollo, Lauri 2007

Sintering of high Mn cemented carbides in Mn-rich environment

Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart; Mere, Arvo Defect and diffusion forum 2020 / p. 402-407 https://doi.org/10.4028/www.scientific.net/DDF.405.402_Conference_proceedings_at_Scopus [Article at Scopus](#)

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

Small scale mechanical properties of chromium carbide-based materials

Hussainova, Irina; Jasiuk, Iwona Book of abstracts : Society of Engineering Science 45th Annual Technical Meeting : October 12-15, 2008, Urbana-Champaign, IL, USA 2008 / p. 377

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 state processing of aluminum matrix Composites reinforced with nanoparticulate materials

Leparoux, Marc; **Kollo, Lauri**; Kwon, Hansang; **Kallip, Kaspar**; Babu, N. Kishore; AlOgab, 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](#)

Solution combustion synthesis of MnFeCoNiCu and (MnFeCoNiCu)₃O₄ high entropy materials and sintering thereof

Aydinyan, Sofiya; Kirakosyan, Hasmik; Sargsyan, Armen; **Volobujeva, Olga**; Kharatyan, Suren Ceramics International 2022 / p. 20294-20305 : ill <https://doi.org/10.1016/j.ceramint.2022.03.310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark plasma sintered ZrC-Mo cermets : influence of temperature and compaction pressure

Yung, Der-Liang; Antonov, Maksim; Hussainova, Irina Ceramics international 2016 / p. 12907-12913 : ill <https://doi.org/10.1016/j.ceramint.2016.05.059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark plasma sintering of 13Ni-400 maraging steel: Enhancement of mechanical properties through surface modification

Patil, Viraj Vishwas; **Prashanth, Konda Gokuldoss**; Mohanty, Chinmaya P. Journal of alloys and compounds 2023 / art. 170734 : ill <https://doi.org/10.1016/j.jallcom.2023.170734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 molybdenum silicides synthesized from oxide precursors

Ovali, Didem; Tarraste, Marek; Kaba, Mertcan; Agaogullari, Duygu; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss**; Lütfi Övecoglu, M. Ceramics international 2021 / p. 13827-13836 : ill <https://doi.org/10.1016/j.ceramint.2021.01.248> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Steel selection considerations for hot-dip galvanizing = Terase valiku mõjurid kuumtsinkimiseks

Sepper, Sirli 2017 <https://digi.lib.ttu.ee/i/?9227> https://www.ester.ee/record=b4753843*est

Strength investigation of threaded joints under static and dynamic loading

Penkov, Igor 2001 https://www.ester.ee/record=b1505236*est

Strong and chemically inert sinter crystallised glass ceramics based on Estonian oil shale ash

Maragoni, Mauro; Ponsot, I.; **Kuusik, Rein, keemik**; Bernardo, E. Advances in applied ceramics 2014 / p. 120-128 : ill
<https://doi.org/10.1179/1743676113Y.0000000132> [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>

Structure and mechanical properties of the engine valves with intermetallic disk

Kodess, Boris N.; Teterin, G.; **Kommel, Lembit**; Ovcharov, V. Journal of materials research 1999 / p. 652-657

Structure and mechanical properties of Ti-Al

Kommel, Lembit; Ovcharov, V.; Kodess, Boris N.; Teterin, G.; Kisel, N.; Ermolova, M. Acta Metallurgica : Proceedings of IUCr'99 meeting : Glasgow, August 7-9, 1999 1999 / [0,2ap]

Structure formation and characteristics of chromium carbide-iron-titanium cermets

Kolnes, Märt; Pirso, Jüri; Kübarsepp, Jakob; Viljus, Mart; Traksmäa, Rainer Proceedings of the Estonian Academy of Sciences 2016 / p. 138-143 : ill <https://doi.org/10.3176/proc.2016.2.09> https://artiklid.elnet.ee/record=b2768217*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structure sensitivity of hard metals and their durability in metal forming operations

Kübarsepp, Jakob; Reshetnjak, Heinrich International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 133-136: ill

Study of the properties of TiO₂ thin films deposited by ultrasonic spray pyrolysis [Online resource]

Chen, Z; Oja Acik, Ilona; Dündar, Ibrahim; Mere, Arvo 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/>

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](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synergistic effect of Nb and Mo on the microstructural formation of the Ti(C,N)-high chromium ferrous-based cermets

Maurya, Himanshu Singh; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Sergejev, Fjodor; Pampori, Tabeen Halawat; Hussain, Abrar; Kübarsepp, Jakob International journal of refractory metals and hard materials 2024 / art. 106723 <https://doi.org/10.1016/j.jrmhm.2024.106723> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

System-level condition monitoring approach for fault detection in photovoltaic systems

Zahraoui, Younes; Alhamrouni, Ibrahim; Hayes, Barry P.; Mekhilef, Saad; Korõtko, Tarmo Fault analysis and its impact on grid-connected photovoltaic systems performance 2022 <https://doi.org/10.1002/9781119873785.ch7>

Tensile and surface hydrophobicity investigation of the novel synthesized cellulose derivative films

Kallakas, Heikko; Kilumets, Catherine; Tarasova, Elvira; Krasnou, Illia; Savest, Natalja; Gudkova, Viktoria; Ahmadian, Iman; Krumme, Andres; Kers, Jaan Research Square 2022 / 13 p <https://doi.org/10.21203/rs.3.rs-2191830/v1>

Teras

Mosberg, Rudolf Masinaehitaja käsiraamat. 1. kd 1968 / lk. 585-613 https://www.ester.ee/record=b1298495*est

Teraskonstruksioonid

Loorits, Kalju 2003 https://www.ester.ee/record=b1791787*est

Teraskonstruksioonid

Loorits, Kalju 2003 https://www.ester.ee/record=b1791789*est

Teraskonstruksioonid

Idnum, Siim; Loorits, Kalju 2003 https://www.ester.ee/record=b1860540*est

Teraskonstruksioonid. Lisanõuded põiksuunas koormamata tasapinnaliste plaatkonstruktsioonide projekteerimiseks : Eesti projekteerimisnormid, EPN-ENV 3.1.5 : (eelnõu) : välja antud detsember 1999

Loorits, Kalju; Soonurm, Enno ET-kartoteek : Eesti ehitusteave 1999 / ET-1 0113-0307, 14 lk

Teraskonstruksioonid. Osa 1.3, Külmpainutatud profiilid ja profiilplekk : Eesti projekteerimisnormid, EPN-ENV 3.1.3 : (eelnõu) : välja antud aprill 1997

Texture dependent strain hardening in additively manufactured stainless steel 316L

Kumar, Deepak; Shankar, Gyan; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Materials Science and Engineering : A 2021 / art. 141483 <https://doi.org/10.1016/j.msea.2021.141483> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 carbon content on the mechanical and tribological properties of WC-Co cemented carbides

Joost, Renee; Pirso, Jüri; Viljus, Mart Proceedings of Nordtrib 2008 : 13th Nordic Symposium on Tribology : Tampere, Finland, 10-13 June, 2008 2008 / [8] p. : ill

The effect of Cr and C on the characteristics of WC-FeCr hardmetals [Electronic resource]

Tarraste, Marek; Juhani, Kristjan; Kübarsepp, Jakob; Pirso, Jüri; Mikli, Valdek Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [6] p. : ill. [USB]

The effect of ionic liquid on the properties of electrospun polyacrylonitrile membranes [Online resource]

Plamus, Tiia; Savest, Natalja; Krumme, Andres; Viirsalu, Mihkel Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdk.ut.ee/teesid/>

The effect of VC, TIC and Cr₃C₂ on the microstructure and properties of WC-15CO hardmetals fabricated by the reactive sintering

Pirso, Jüri; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Letunovitš, Sergei Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 383-388 : ill

The formation of reactive sintered (Ti, Mo)C-Ni cermet from nanocrystalline powders

Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart; Traksmäa, Rainer International journal of refractory metals and hard materials 2014 / p. 284-290 : ill <https://doi.org/10.1016/j.ijrmhm.2013.12.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of carbon and molybdenum in reactive sintered (Ti, Mo)C-NiCr cermets [Electronic resource]

Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [USB]

The influence of conductive additives on the mechanical properties of electrospun mats = Juhtivate lisandite mõju elektrokedratud nanokiuliste lausmaterjalide mehaanilistele omadustele

Plamus, Tiia 2018 <https://digi.lib.ttu.ee/i/211197> https://www.ester.ee/record=b5178372*est

The influence of content and production parameters on the structure and mechanical properties of TiC-NiMo cemented carbides

Pirso, Jüri; Viljus, Mart Tallinna Tehnikaülikooli Toimetised 1994 / lk. 77-90: ill

The influence of Cr₃C₂ and VC as alloying additives on the microstructure and properties of reactive sintered WC-Co cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunovitš, Sergei; Tarraste, Marek Materials science = Medžiagotyra 2012 / p. 79-83 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1347>

The influence of high energy milling and sintering parameters on reactive sintered (Ti, Mo)C-Ni cermets

Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart; Traksmäa, Rainer Journal of alloys and compounds 2015 / p. 381-386 : ill <https://doi.org/10.1016/j.jallcom.2015.02.071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of processing parameters on mechanical properties of spark plasma sintered chromium carbide based cermets

Juhani, Kristjan; Pirso, Jüri; Tarraste, Marek; Viljus, Mart; Letunovitš, Sergei Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 162-166 <https://doi.org/10.4028/www.scientific.net/SSP.267.162> [Conference proceedings at Scopus](#) [Article at Scopus](#)

The influence of sintering temperature of reactive sintered (Ti, Mo)C-Ni cermets

Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart Medžiagotyra = Materials science 2015 / p. 435-438 : ill <https://doi.org/10.5755/j01.ms.21.3.7179> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of TiC powder to reactive sintered TiC-NiMo cermets microstructure and mechanical properties [Electronic resource]

Jõeleht, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart Proceedings of the 18th Plansee Seminar : International Conference on Refractory Metals and Hard Materials : Reutte/Austria, 3-7 June, 2013 2013 / p. HM 71/1-HM 71/7 [CD-ROM]

The investigation of structure and properties of TiAl-Nb alloy

Kommel, Lembit Proceedings of the International Symposium-Exhibition on Advanced Materials, Technologies, Equipment and Tools in Mechanical Engineering : April 20-23, 1999, Kiev, Ukraine 1999 / p. 67

The study of firing of a ceramic body made from illite and fluidized bed combustion fly ash

Hulan, Tomaš; Trník, Anton; **Kaljuvee, Tiit; Uibu, Mai**; Štubna, Igor; **Kallavus, Urve; Traksmäa, Rainer** Journal of thermal analysis and calorimetry 2017 / p. 79–89 : ill <https://doi.org/10.1007/s10973-016-5477-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The study of the laser hardening parameters on the structure and the mechanical properties of the PM steel Vanadis 6

Surženkov, Andrei; Latokartano, Jyrki; Vuoristo, Petri; **Kulu, Priit; Viljus, Mart; Vallikivi, Ahto** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 67

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 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, 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; Kyritsakis, 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](#)

Toughness and durability of cemented carbides

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina Deformation and Fracture in Structural PM Materials : DF PM 2002 : proceedings of the international conference, Stara Lesna, Slovak Republic, September 15-18, 2002. Vol. 1 2002 / p. 77-83 : ill

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

Toughness of hardmetals and their durability in metalforming operations

Reshetnjak, Heinrich; **Kübarsepp, Jakob** Proceedings of Joint Nordic Conference in Powder Technology : May 5-6, 1999, Oslo, Norway 1999 / p. 37

Toward high temperature tough ceramics

Hussainova, Irina; Yung, Der-Liang; **Voltšihhin, Nikolai; Traksmäa, Rainer**; Hannula, Simo-Pekka ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 / [8] p <http://www.escom.eu.org/eccm15/data/assets/178.pdf>

Towards benchmark cases for computational fluid dynamics for casting of fiber concrete

Goidyk, Oksana; Braunbrück, Andres; Marjapuu, Rasmus-Richard; Tuisk, Tanel; Herrmann, Heiko M2D2017 : proceedings of the 7th International Conference on Mechanics and Materials in Design : (Albufeira/Portugal, 11-15 June 2017) 2017 / p. 229-230 : ill https://paginas.fe.up.pt/~m2d/Proceedings_M2D2017/data/papers/Book.pdf

Tribological parameters of copper-alumina composite

Hvizdoš, Pavol; **Kulu, Priit**; Besterčič, Michal Engineering materials and tribology 2013 / p. 191-196 https://www.researchgate.net/publication/271863555_Tribological_Parameters_of_Copper-Alumina_Composite

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](#)

Täitematerjalide mehaaniliste ja füüsikaliste omaduste katsetamine

Mõisnik, Kuulo 2002 https://www.ester.ee/record=b1711674*est

Täitematerjalide mehaaniliste ja füüsikaliste omaduste katsetamine

Mõisnik, Kuulo 2001 https://www.ester.ee/record=b1601520*est

Ultimate strength assessment of stiffened panels using Equivalent Single Layer approach under combined in-plane compression and shear

Putranto, Teguh; Kõrgesaar, Mihkel; Jelovica, Jasmin Thin-Walled Structures 2022 / art. 109943

<https://doi.org/10.1016/j.tws.2022.109943> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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.ijrmhm.2016.09.014> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Using nano-additives to increase the oxygen barrier of polymers [Online resource]

Paara, Tõnis; Lange, Sven; Krumme, Andres 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/>

Wear behaviour and mechanical properties of sinterhipped hardmetals

Klaasen, Heinrich; Kübarsepp, Jakob Powder metallurgy 2004 / 2, p. 161-167 : ill

Viscoplastic behavior of SPD copper

Kenk, Kalju; Kommel, Lembit; Veinthal, Renno Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 47-48

Work hardening in selective laser melted Al12Si alloy

Prashanth, Konda Gokuldoss Material design & processing communications 2019 / art. e46, 4 p. : ill <https://doi.org/10.1002/mdp2.46>

Värvilised metallid ja sulamid

Valdma, Leo Masinaehitaja käsiraamat. 1. kd 1968 / lk. 627-644 https://www.ester.ee/record=b1298495*est

Über die optimale Mahlfeinheit von Zement

Reiman, Värdi; Teder, Peep Tagungsbericht / Internationale Baustoff- und Silikattagung, Weimar, 1979, 18. bis 22. Juni/Hochschule für Architektur und Bauwesen Weimar 1979 / p. 94-99

Üksiklained mittelineaarses mikrostruktuuriga tahkises ja nendega seotud pöördülesanne

Janno, Jaan; Engelbrecht, Jüri Aastaraamat 2005 / Eesti Matemaatika Selts 2006 / lk. 12-29

Влияние гранулометрического состава песка на его растворение

Reiman, Värdi Сборник трудов (НИПИ силикатобетон) 1969 / с. [?] https://www.ester.ee/record=b1764431*est

Влияние гранулометрического состава песка на скорость диффузии при образовании гидросиликатов кальция

Reiman, Värdi Сборник трудов (НИПИ силикатобетон) 1970 / с. 12-30 : илл https://www.ester.ee/record=b1764431*est

Влияние дисперсности сухих компонентов мелкозернистого бетона на его свойства

Vihvelin, Raivo; Kikas, Verner Изучение процессов гидратации, структуры и свойств золоторландцементных бетонов 1982 / с. 47-66 : ил https://www.ester.ee/record=b1310488*est <https://digikogu.taltech.ee/et/Item/df1af464-73fa-4121-a182-9e2b5fb8f772>

Влияние механических свойств на гидроабразивный износ спеченных сплавов TiC-Ni-Co-Cr

Kallas, Paul; Valdma, Leo Порошковая металлургия. 1 1976 / с. 17-23 : илл https://www.ester.ee/record=b2111354*est <https://digikogu.taltech.ee/et/Item/c96ed6d3-4203-45dd-8179-87f8028f1fba>

Влияние растворимых щелочных соединений на прочностные свойства песчаных бетонов

Piksarv, Evald; Kikas, Verner; Nurm, Viive Теория и технология получения строительных материалов из зол твердых топлив 1977 / с. 3-13 : илл https://www.ester.ee/record=b1312059*est <https://digikogu.taltech.ee/et/Item/d8bffa4a-39cd-4fa7-9044-e98e3ef5fdd4>

Влияние содержания углерода в связке на механические свойства термообрабатываемых сплавов карбид титана - сталь

Kübarsepp, Jakob Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1985 / с. 43-46 https://www.ester.ee/record=b1645489*est

Влияние технологических факторов и состава на свойства карбидохромовых спеченных твердых сплавов

Pirso, Jüri; Valdma, Leo Порошковая металлургия : сборник статей. 2 1977 / с. 19-28 https://www.ester.ee/record=b2111366*est <https://digikogu.taltech.ee/et/Item/70a3ad25-126c-4b5f-b887-e5dc1aa558b3>

Влияние технологических факторов на механические свойства спеченных сплавов TiC-Ni-Co-Cr

Valdma, Leo; Kudrjartsev, Vladimir; Kallas, Paul Порошковая металлургия = Powder metallurgy : ежемесячный научно-

технический журнал 1977 / с. 11-16 : фот., табл. https://www.ester.ee/record=b1645489*est

Вопросы использования физико-технических параметров горных пород Эстонского месторождения горючих сланцев при решении инженерных задач

Kriisaar, Ervin Проблемы разработки месторождений полезных ископаемых Эстонской ССР 1987 / с. 33-47

Изучение влияния дисперсности сланцезольного портландцемента на его физико-механические свойства : автореферат ... кандидата технических наук (05.23.05)

Uustalu, Enn 1975 http://www.ester.ee/record=b1339135*est

Изучение расчетных характеристик асфальтобетона в лабораторных условиях

Mespaak, Vello; Haljak, Otto Автомобильные дороги. Автомобильный транспорт : сборник статей. 7 1976 / с. 39-46 : илл https://www.ester.ee/record=b2122599*est <https://digikogu.taltech.ee/et/Item/38e485b3-3832-4ea3-9c5f-4981852f5390>

Изучение технологических и физикомеханических свойств алкилрезорцинофенолоформальдегидного клея ДФК-14

Christjanson, Peep; Kõösel, Arne-Enn Исследование зависимости прочности деревянных конструкций от технологии их изготовления : сборник научных трудов 1982 / с. 80-89 https://www.ester.ee/record=b4820961*est

Исследование вибрационной технологии производства сланцезольного газобетона

Litvintseva, Vera 1968 http://www.ester.ee/record=b2237564*est

Исследование вибрационной технологии производства сланцезольного газобетона : автореферат ... кандидата технических наук (484)

Litvintseva, Vera 1969 http://www.ester.ee/record=b1357825*est

Исследование воздействия высоких температур на пластические свойства стали X25T

Anson, Pavel; Laid, Jaan; Poobus, Arvi Теплоэнергетика : сборник статей. 4 1965 / с. 55-63 : илл https://www.ester.ee/record=b2182026*est <https://digikogu.taltech.ee/et/Item/1a2e62bf-eb67-42b3-9ecd-e36a93a32460>

Исследование возможности повышения механической прочности спеченных материалов ковкой

Arensburger, Daniil; Kulu, Priit; Püss, J.; Siim, P.; Jakovlev, B. Тезисы докладов I республиканской конференции по порошковой металлургии : эрозионностойкие спеченные материалы и их применение 1975 / с.35-36 https://www.ester.ee/record=b1314322*est

Исследование механических свойств и коррозионной стойкости порошковых твердых сплавов ТiC-сталь

Kallast, Vambola; Kübarsepp, Jakob; Talimets, Ellen; Schächter, K.; Lohonyai, N. Комплексная переработка фосфатного сырья, анализ природных и технических объектов 1986 / с. 89-94

Исследование механических свойств чешуйчатого материала

Laansoo, Andres; Ritso, Aadu Тезисы докладов I республиканской конференции по порошковой металлургии : эрозионностойкие спеченные материалы и их применение 1975 / с. 44-46 https://www.ester.ee/record=b1314322*est

Исследование механических характеристик электродвигателей малой мощности

Varvas, Toivo; Rannat, Erich 35 научная конференция студентов втузов Эстонии, Латвии, Литвы, Белоруссии и Молдовы : [Таллинн, 1991] : доклады. Секция САПР в машиностроении [и др.] 1991 / с. 36-37: ил

Исследование некоторых свойств спеченных медных сплавов

Arensburger, Daniil; Letunovitš, Sergei Свойства и технология изготовления композиционных материалов 1985 / с. 3-11

Исследование физико-механических свойств клеящих паст на основе смолы ДФК

Starkopf, Jüri-Aleksander; Auriste, Ilja X студенческая научно-техническая конференция высших учебных заведений Прибалтики, Белорусской ССР и Калининградской области : аннотации научных работ 1964 / с. 129-130 https://www.ester.ee/record=b1749611*est <http://www.digar.ee/id/nlib-digar:376945>

Исследование физико-механических свойств пород шахтного поля № 14 Эстонского сланцевого бассейна

Aruküla, Heino; Lüütre, Enn Труды по горному делу : сборник статей. 5 1970 / с. 45-47 https://www.ester.ee/record=b2189953*est <https://digikogu.taltech.ee/et/Item/2e726ce2-ec9d-4f82-a439-126074f1461a/>

К вопросу оценки физико-технических параметров горных пород сланцевых месторождений

Kriisaar, Ervin; Putintsev, Juri; Einpaul, Jüri Проблемы подземной и открытой разработки горючих сланцев и нерудных материалов 1984 / с. 55-66 : ил https://www.ester.ee/record=b1381762*est <https://digikogu.taltech.ee/et/Item/cbe4d891-f5ee-472e-9a25-7abcf24b097>

К математической интерпретации механической характеристики асинхронного короткозамкнутого двигателя

Risthein, Endel Гибкие автоматизированные производственные системы и их элементы для литейного производства 1986 /

К определению механической характеристики асинхронного короткозамкнутого двигателя по каталожным параметрам схем замещения

Arusoo, Andres Гибкие автоматизированные производственные системы и их элементы для литейного производства 1987 / с. 54-67

Керамические плазменные покрытия с повышенными физико-механическими свойствами

Гросс Ю.; Клявиньш А. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 54-55

Механические свойства и абразивная износостойкость карбидосталей

Kübarsepp, Jakob; Rešetnjak, Heinrich; Annuka, Harri Порошковая металлургия : тезисы докладов XVI Всесоюзная научно-техническая конференция, Свердловск, 1989. Ч. 2 1989 / с. 64-65

О влиянии гранулометрического состава песка на количество новообразований и прочность известково-песчаного материала

Juurvee, Uno; Reiman, Värdi Сборник трудов (НИПСиликатобетон) 1973 / с. 18-26 : илл https://www.ester.ee/record=b1764431*est

О возможности повышения прочности известково-песчаного материала путём изменения гранулометрического состава измельченного песка

Juurvee, Uno; Reiman, Värdi Сборник трудов (НИПСиликатобетон) 1970 / с. 63-72 : илл https://www.ester.ee/record=b1764431*est

О параметрах шероховатости труб

Hääl, Kaido; Tepaks, Leo; Hääl, Maire-Liis Сборник статей по санитарной технике. 8 1972 / с. 47-57 : илл https://www.ester.ee/record=b2085069*est <https://digikogu.taltech.ee/et/Item/67a1c9b6-c10c-4843-9d90-1f0bf1e601ba>

О применении древесины при сооружении оснований зданий на слабых и сильно сжимаемых грунтах : автореферат ... кандидата технических наук

Oll, Nikolai 1958 http://www.ester.ee/record=b2327618*est

О строительных физико-механических свойствах карбонатных пород сланценосной толщи Эстонского месторождения

Reier, Alfred-Herman; Ojaste, Kalju Труды по горному делу : сборник статей. 6 1972 / с. 27-34 https://www.ester.ee/record=b2190530*est <https://digikogu.taltech.ee/et/Item/6d110d4c-c936-43e2-9073-aef99f8686b9/>

О формуле механической характеристики асинхронного короткозамкнутого двигателя

Risthein, Endel Автоматизированные магнитогидродинамические и линейные электроприводы и их элементы 1984 / с. 37-47

Определение механической растираемости неорганических носителей

Köstner, Ado; Kipper, Heino; Erin, Anne; Pedak, M. Получение и применение иммобилизованных ферментов 1977 / с. 51-55 : илл https://www.ester.ee/record=b1309558*est <https://digikogu.taltech.ee/et/Item/67557c4a-b3ad-4f67-9fe9-4590245ecb73>

Определение необходимого количества образцовых мер для поверки толщиномеров покрытий

Laaneots, Rein Долговечность, расчет и конструирование деталей и узлов машин и технологического оборудования 1985 / с. 17-24

Определение оптимального гранулометрического состава гравия, как строительного материала для устройства и содержания гравийных дорог Эстонской ССР : доклад о содержании диссертационной работы

Ambros, Richard 1948 https://www.ester.ee/record=b2562877*est

Определение размеров междуканальных целиков по коэффициенту поддержания

Talve, Leo; Aruküla, Heino Труды по горному делу. 8 1976 / с. 37-48 : илл https://www.ester.ee/record=b2190762*est <https://digikogu.taltech.ee/et/Item/88239daf-2999-4a7a-a5ba-95677c4f6b51>

Определение физико-механических свойств песчаника из месторождения Пиуза

Aruküla, Heino Проблемы подземной и открытой разработки горючих сланцев и нерудных материалов 1978 / с. 9-14 https://www.ester.ee/record=b1381851*est <https://digikogu.taltech.ee/et/Item/119c7d89-76e6-4806-9a87-b150bda62410>

Параметры плотностных и механических свойств горных пород Прибалтийского бассейна горючих сланцев

Katsarskaja, Niina; Kripsaar, Ervin; Einpaul, Jüri Проблемы разработки месторождений полезных ископаемых Эстонской ССР 1986 / с. 31-44

Приспособления для механических испытаний металлокерамических материалов

Bussel, Oleg; Kulu, Priit Технология и организация производства : научно-производительный сборник 1971 / с. 91 https://www.ester.ee/record=b2853398*est

Прямое измерение механических свойств металла энергетического оборудования

Klevtsov, Ivan; Dedov, Andrei; Bogoljubova, Elena; Bojarinova, Tatjana Теплоэнергетика 2008 / 5, с. 65-68 : илл

Расчет механических характеристик линейных асинхронных двигателей

Laugis, Juhan; Tiismus, Hugo; Teemets, Raivo Исследование и проектирование электромагнитных средств перемещения жидких металлов : сборник трудов. 15 1978 / с. 75-85 : илл https://www.ester.ee/record=b1409159*est
<https://digikogu.taltech.ee/et/Item/132475a4-e587-47b8-a1c6-9179a1c1761b>

Самоприклеивающиеся материалы. Сообщение VII, О модифицированном термоотверждаемом невысыхающем клее типа КВН и его машинном нанесении на основы

Vabaoja, Jüri; Vössotski, Svjatoslav Синтез и применение поликонденсационных клеев : сборник статей. 5 1982 / с. 95-103 : ил https://www.ester.ee/record=b2191036*est <https://digikogu.taltech.ee/et/Item/948b14fd-94ea-4872-8724-96cfc1c27afe>

Свойства бетонов на основе известнякового щебня

Hain, Märt Изучение свойств зольных цементов и бетонов на их основе 1989 / с. 76-82

Связь между микромеханическими свойствами и эрозионной стойкостью порошковых материалов и покрытий

Ivaštšenko, L.K.; Kulu, Priit; Mühlman, J.; Halling, Jaanus Свойства и технология изготовления композиционных материалов 1986 / с. 38-44

Статистический анализ результатов цикла лабораторных работ по разделу "Физика горных пород" на ЭВМ ЕС-1020

Kripsaar, Ervin; Zelimhanova, Larissa Arvutite ja tehniliste vahendite kasutamine õppetöös : TPI 50. aastapäevale pühendatud teaduslik-metoodilise konverentsi, 26.-27. märtsil : ettekannete teesid 1986 / с. 41-42 https://www.ester.ee/record=b1206593*est

Усадка цементного камня на портландцементях разного состава

Laul, Ilmar; Kikas, Verner; Hain, Artur Сборник трудов по изучению золы сланца-кукерсита. 6 1972 / с. 91-97
https://www.ester.ee/record=b2190533*est <https://digikogu.taltech.ee/et/Item/29889133-4a49-423b-82d3-22a748732c52>

Устройство для создания знакопеременных механических напряжений в образцах диэлектрических материалов

Ždanovič, V. V.; Ivannikov, V. R.; Roninson, Aleksander; Mere, Arvo XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том I, Общественные науки. Физико-математические науки. Строительство. Экономика 1986 / с. 50
https://www.ester.ee/record=b1305540*est