

Abrasivity and grindability study of mineral ores

Kulu, Priit; Tarbe, Riho; Käerdi, Helmo; Goljandin, Dmitri Wear 2009 / 11, p. 1832-1837 : ill

Advanced machine learning and experimental studies of polypropylene based polyesters tribological composite systems for sustainable recycling automation and digitalization

Hussain, Abrar; Kübarsepp, Jakob; Sergejev, Fjodor; Goljandin, Dmitri; Hussainova, Irina; Podgurski, Vitali; Karjust, Kristo; Maurya, Himanshu Singh; Rahmani Ahranjani, Ramin; Sinka, Maris International journal of lightweight materials and manufacture 2025 / p. 252-263 <https://doi.org/10.1016/j.ijlmm.2024.11.001>

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

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

A case study of printed circuit boards recycling by disintegrator technology

Klauson, Artur; Goljandin, Dmitri; Kulu, Priit; Antonov, Maksim; Gustafsson, Göran; Davoodi, Ali Modern materials and manufacturing 2023 : Tallinn, Estonia, 2-4 May 2023 2024 / art. 040014 <https://doi.org/10.1063/5.0189208> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Characterization of disintegrator milled electronic waste powders for combustion and pyrolysis

Kers, Jaan; Goljandin, Dmitri; Vilsaar, Kristiina; Tall, Kaspar; Mikli, Valdek; Zuo, Xiangjun; Zhang, Lifeng 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 61

Characterization of disintegrator milled electronic waste powders for materials recovery

Kers, Jaan; Goljandin, Dmitri; Vilsaar, Kristiina; Tall, Kaspar; Mikli, Valdek; Zuo, Xiangjun; Zhang, L.; Schuman, T. Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 492-497 : ill

Characterization of mechanically milled cermet powders produced by disintegrator technology

Käerdi, Helmo; Goljandin, Dmitri; Kulu, Priit; Sarjas, Heikki; Mikli, Valdek Engineering materials and tribology 2013 / p. 148-153 <https://www.scientific.net/KEM.527.148>

Circular economy approach to recycling technologies of post-consumer textile waste in Estonia : a review

Hussain, Abrar; Kamboj, Nikhil Kumar; Podgurski, Vitali; Antonov, Maksim; Goljandin, Dmitri Proceedings of the Estonian Academy of Sciences 2021 / p. 80-90 : ill <https://doi.org/10.3176/proc.2021.1.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

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](#)

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

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

Crumb rubber as a secondary raw material from waste rubber : a short review of end-of-life mechanical processing methods

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Kasperovich, Andrei; Myadelets, Vadim; Goljandin, Dmitri Recycling 2020 / art. 32, 20 p. : ill <https://doi.org/10.3390/recycling5040032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and testing of new composite from recycled GFRP

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

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](#)

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 sustainable polypropylene based composites = Polüpropeeni baasil jätkusuutlike komposiitide arendus

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

A disintegrator as a machine for utilizing metal chips to metal powder

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri; Roshtshin, Sergei Third ASM International Conference & Exhibition on the Recycling of Metals, Barcelona, Spain, 11-13 June 1997 : book of proceedings 1997 / p. 511-522 : ill

Disintegrator as device for milling of mineral ores

Goljandin, Dmitri; Kulu, Priit; Käerdi, Helmo; Bruwier, Alex Materials science = Medžiagotyra 2005 / 4, p. 398-402 : ill

Disintegrator milling system development and milling technologies of different materials =

Desintegraatorjahvatussüsteemi arendus ja erinevate materjalide desintegraatorjahvatustehnoloogiad

Goljandin, Dmitri 2013 <https://digi.lib.ttu.ee/i/?937> https://www.ester.ee/record=b2994890*est

Disintegrators and disintegrator treatment of materials

Goljandin, Dmitri; Kulu, Priit 2015

Economic aspects of mechanical pre-treatment's role in precious metals recovery from electronic waste

Blumbergs, Ervins; Shishkin, Andrei; Markus, Karlis; Serga, Vera; **Goljandin, Dmitri; Klauson, Artur;** Abramovskis, Vitalijs; Baroninš, Janis; Zarkov, Aleksej; Pankratov, Vladimir Metals 2024 / art. 95 <https://doi.org/10.3390/met14010095>

Economical aspects of the mechanical pre-treatment role in the precious metals recovery from electronic waste

Blumbergs, Ervins; Shishkin, Andrei; Markus, Karlis; Serga, Vera; **Goljandin, Dmitri; Klauson, Artur;** Abramovskis, Vitalijs; Baroninš, Janis; Zarkov, Aleksej; Pankratov, Vladimir Preprints.org 2023 / 19 p <https://doi.org/10.20944/preprints202312.2345.v1>

Effect of basalt addition on tribological performance of FeCrSiB HVOF coatings

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

Effect of erodent particle impact energy on wear of cemented carbides

Antonov, Maksim; Yung, Der-Liang; **Goljandin, Dmitri; Mikli, Valdek; Hussainova, Irina** Wear 2017 / p. 507-515 : ill
<https://doi.org/10.1016/j.wear.2016.11.032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of Local Remelting and Recycled WC-Co Composite Reinforcement Size on Abrasive and Erosive Wear of Manual Arc Welded Hardfacings

Katinas, Egidijus; **Antonov, Maksim;** Jankauskas, Vytenis; **Goljandin, Dmitri** Coatings 2023 / art. 734
<https://doi.org/10.3390/coatings13040734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of milling activation of dry components on properties of foamed cement mortar in a two-stage manufacturing process

Baroninš, Janis; Shishkin, Andrei; Lusi, Vitalijs; Giosue, Chiara; **Goljandin, Dmitri;** Novakova, Iveta; Kekez, Sofija; Korjakins, Aleksandrs; Gorelikovs, Dmitrijs; Gavrilovs, Pavels Case studies in construction materials 2025 / art. e04465
<https://doi.org/10.1016/j.cscm.2025.e04465>

Effect of thermal shock treatment parameters on the efficiency of WC-Co cermet recycling

Kariminejad, Arash; Antonov, Maksim; Kumar, Rahul, 1993-; **Goljandin, Dmitri; Klimczyk, Piotr; Viljus, Mart** AIP conference proceedings 2024 / art. 040013 <https://doi.org/10.1063/5.0189330> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Effect of thermal spraying method on the microstructure and wear behaviour of FeNiCrBSiC-CrB2 coating

Umanskyi, O.; Storozhenko, M.; **Antonov, Maksim;** Terentyev, O.; Koval, O.; **Goljandin, Dmitri** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 37-42 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.37>
<https://doi.org/10.4028/www.scientific.net/KEM.799.37> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Effect of tribosystem and inertia on run-in behavior of PVD coatings

Antonov, Maksim; Adoberg, Eron; Hussainova, Irina; Goljandin, Dmitri; Zikin, Arkadi ECOTRIB 2011 : 3rd European Conference on Tribology and 4th Vienna International Conference on Nano-Technology : June 7-9, 2011, Vienna, Austria. 1 2011 / p. 159-164

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

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

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

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

Efficient energy recovery from textile waste and biomass mixture

Kramens, Janis; Vigants, Edgars; Kanukuntla, Sai-Pavan; **Goljandin, Dmitri** Engineering for Rural Development ; vol. 22 2023 / p. 817 - 825 <https://doi.org/10.22616/ERDev.2023.22.TF161> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Environmental performance analysis of innovative mechanical separation for recycling of waste printed circuit boards

Hosseini, Pooya; **Klauson, Artur**; **Goljandin, Dmitri**; Hendrickx, Brent; Dufflou, Joost R. Proceedings of the Estonian Academy of Sciences 2025 / p. 291-301 : ill <https://doi.org/10.3176/proc.2025.2S.03>

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

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

Extremes of apparent and tap densities of recovered GFRP filler materials

Kers, Jaan; **Majak, Jüri**; **Goljandin, Dmitri**; **Gregor, Andre**; **Malmstein, M.**; **Vil Saar, Kristiina** Composite structures 2010 / 9, p. 2097-2101 : ill <https://www.sciencedirect.com/science/article/pii/S0263822309004085>

Heat conductive plates from recycled niobium slag

Kulu, Priit; **Goljandin, Dmitri**; **Viljus, Mart**; **Traksmaa, Rainer**; **Gregor, Andre** Solid State Phenomena ; 320 2021 / p. 169-175 <https://doi.org/10.4028/www.scientific.net/SSP.320.169> [Conference proceedings at Scopus](#) [Article at Scopus](#)

High temperature erosion wear of cermet particles reinforced self-fluxing alloy HVOF sprayed coatings

Surženkov, Andrei; **Goljandin, Dmitri**; **Traksmaa, Rainer**; **Viljus, Mart**; **Talviste, Kristofer**; **Aruniit, Aare**; Latokartano, Jyrki; **Kulu, Priit** Medžiagotyra = Materials science 2015 / p. 386-390 : ill <https://doi.org/10.5755/j01.ms.21.3.7617> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-temperature erosion of Fe-based coatings reinforced with cermet particles

Surženkov, Andrei; **Antonov, Maksim**; **Goljandin, Dmitri**; **Kulu, Priit**; **Viljus, Mart**; **Traksmaa, Rainer**; **Mere, Arvo** Surface engineering 2016 / p. 624-630 : ill <https://doi.org/10.1080/02670844.2016.1145377> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

HVOF sprayed Fe-Based wear-resistant coatings with carbide reinforcement, synthesized in situ and by mechanically activated synthesis

Tkachivskyi, Dmytro; **Juhani, Kristjan**; **Surženkov, Andrei**; **Kulu, Priit**; **Antonov, Maksim**; **Goljandin, Dmitri** Coatings 2020 / art. 1092, 15 p. : ill <https://doi.org/10.3390/coatings10111092> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

Hussain, Abrar; **Goljandin, Dmitri**; **Podgurski, Vitali**; **Yörük, Can Rüstü**; **Sergejev, Fjodor**; **Kübarsepp, Jakob**; **Maurya, Himanshu Singh**; Rahmani Ahranjani, Ramin European polymer journal 2024 / art. 113082 <https://doi.org/10.1016/j.eurpolymj.2024.113082>

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](#)

Investigation of Devulcanised Crumb Rubber Milling and Deagglomeration in Disintegrator System

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Irtiseva, Kristine; **Goljandin, Dmitri**; Shishkin, Andrei Key engineering materials 2019 / p.

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 pyrometallurgical recycling of electronic wastes

Zhang, L.; Zuo, Xiangjun; **Kers, Jaan; Goljandin, Dmitri; Peetsalu, Priidu** REWAS 2008 (Global Symposium on Recycling, Waste Treatment and Clean Technology) : Cancun, Mexico, 12-15.10.2008 2008 / p. 699-708

Mechanical disintegration of Al-W-B waste material

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

Mechanical recycling of electronic wastes by high-energy disintegrator mills

Kers, Jaan; Goljandin, Dmitri; Adoberg, Eron; Laurmaa, Viktor; Križan, Peter TOP 2011 - Engineering of Environment Protection : Casta-Papiernicka, Slovakia, 14-16 June, 2011 2011 / p. 131-136
https://www.researchgate.net/publication/288401840_Mechanical_recycling_of_electronic_wastes_for_materials_recovery

Mechanical recycling of electronic wastes for materials recovery

Laurmaa, Viktor; Kers, Jaan; Tall, Kaspar; Mikli, Valdek; Goljandin, Dmitri; Vilsaar, Kristiina; Peetsalu, Priidu; Saarna, Mart; Tarbe, Riho; Zhang, Lifeng Recycling of electronic waste II : proceedings of the second symposium 2011 / p. 3-10

Metal powders produced by disintegrator milling from industrial wastes

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri Abstract book of 4th ASM International Conference and Exhibition on the Recycling of Metals : Vienna, Austria, 1999 1999 / p. 20

Metal powders produced by disintegrator milling from the industrial wastes

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri 4th ASM International Conference and Exhibition on the Recycling of Metals : book of proceedings : 17-18 June, 1999, the Forum Hotel Vienna, Vienna, Austria 1999 / p. 309-318 : ill

Metal powders produced by mechanical methods

Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu PM2004 : Powder Metallurgy World Congress & Exhibition : 17-21st October 2004, Vienna, Austria : Euro PM2004 : conference proceedings. Volume 1 2004 / p. 157-162 : ill

Metal powders produced by mechanical methods

Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu Abstracts of 6th Powder Metallurgy World Congress & Exhibition : 17-21 October, 2004, Vienna, Austria 2004 / p. 58

Metallic powders for thermal spray produced by disintegrator milling

Zimakov, Sergei; Kulu, Priit; Goljandin, Dmitri Proceedings of Joint Nordic Conference in Powder Technology 2002 / p. 40

Metallic powders produced by mechanical methods

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri Proceedings of the 8th International Baltic Conference : Materials Engineering-99 : September 23-24, Kaunas, Lithuania 1999 / p. 155

Metallic powders produced by mechanical methods

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri Medžiagotyra = Materials science 1999 / 2, p. 3-7: ill

Metallic powders produced by the disintegrator technology

Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu; Kulu, Priit International journal of materials & product technology 2007 / 3/4, p. 226-251 : ill

Metal-matrix cermet reinforced composite powders for thermal spray

Goljandin, Dmitri; Sarjas, Heikki; Kulu, Priit; Käerdi, Helmo; Mikli, Valdek 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 23-24
<https://matsc.ktu.lt/index.php/MatSc/article/view/1348>

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

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

Micropowders produced by disintegrator milling

Peetsalu, Priidu; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo Powder metallurgy progress 2003 / 2, p. 99-110 : ill
http://www.imr.saske.sk/pmp/issue/2-2003/pmp_vol03_no2_p099-110.pdf

Micropowders produced by disintegrator milling

Peetsalu, Priidu; Zimakov, Sergei; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 32-33 http://www.imr.saske.sk/pmp/issue/2-2003/pmp_vol03_no2_p099-110.pdf

Microstructured cermet powders for HVOF spraying

Zimakov, Sergei; Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu Proceedings of Jurmala International Conference Welding and Powder Metallurgy : April 28-29, Jurmala, Latvia 2005 / ? p. [CD-ROM]

Microstructured cermet powders for HVOF spraying

Zimakov, Sergei; Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu 4th International Conference Welding & Powder Metallurgy : MET-2005 : reports and thesis 2006 / p. 185-191 : ill

Mild steel tribology for circular economy of textile industries

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Basit, Muhammad Abdul; Ahmad, Tahir Tribology in Industry 2021 / p. 552-560 <https://doi.org/10.24874/ti.1050.02.21.04> [Journal metrics at Scopus](#) [Article at Scopus](#)

Milling metal chips into raw material of powder metallurgy by collision method

Aljas, Eerik; Goljandin, Dmitri; Tümanok, Aleksei Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / I. 60-61: ill https://www.ester.ee/record=b1492085*est

Modelling and testing of the properties of recovered composite material

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

Novel thermal spray powders for corrosion and wear resistant coatings

Kulu, Priit; Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 40

Novel thermal spray powders for corrosion and wear resistant coatings

Kulu, Priit; Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu Medžiagotyra = Materials science 2002 / 4, p. 413-416 : ill

Novel thermally sprayed corrosion and wear resistant coatings

Kulu, Priit; Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 169-172 : ill

Optimization of reinforcement content of powder metallurgy hardfacings in abrasive wear conditions

Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Viljus, Mart; Tarraste, Marek; Goljandin, Dmitri Proceedings of the Estonian Academy of Sciences 2016 / p. 90-96 : ill https://artiklid.elnet.ee/record=b2768203*est <https://doi.org/10.3176/proc.2016.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of structure of hardmetal reinforced iron-based PM hardfacings for abrasive wear conditions

Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Goljandin, Dmitri; Tarbe, Riho; Tarraste, Marek; Viljus, Mart Engineering materials and tribology XXV 2017 / p. 351-355 <https://doi.org/10.4028/www.scientific.net/KEM.721.351> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Particulate filled composite plastic materials from recycled GFRP

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

Particulate filled composite plastic materials from recycled glass fibre reinforced plastics

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

Performance evaluation of cement mortar and concrete with incorporated micro fillers obtained by collision milling in disintegrator

Bumanis, Girts; Bajare, Diana; Goljandin, Dmitri Ceramics-silikáty 2017 / p. 231-243 : ill <https://doi.org/10.13168/cs.2017.0021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Production of crumb rubber – Iron powder mixture for perspective synthesis of carbon-iron powder sorbent

Mironovs, Viktors; Ozernovs, O.; Lapkovskis, Vjaceslavs; Goljandin, Dmitri Agronomy Research 2016 / p. 1063-1068 https://agronomy.emu.ee/wp-content/uploads/2016/05/Vol14_S1_Mironovs2.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

Progress in sustainable recycling and circular economy of tungsten carbide hard metal scraps for industry 5.0 and

onwards

Kumar, Rahul, 1993-; Kariminejad, Arash; Antonov, Maksim; Goljandin, Dmitri; Klimczyk, Piotr; Hussainova, Irina

Sustainability 2023 / art. 12249 <https://doi.org/10.3390/su151612249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recovery of metallic materials from printed wiring boards by green pyrolysis process

Luyima, A.; Shi, H.; Zhang, Lifeng; Schumann, T.; **Kers, Jaan; Laurmaa, Viktor; Goljandin, Dmitri; Mikli, Valdek** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 57-58
https://www.researchgate.net/publication/268386159_Recovery_of_Metallic_Materials_from_Printed_Wiring_Boards_by_Green_Pyrolysis_Process

Recycled hardmetal-based powder composite coatings : optimisation of composition, structure and properties

Kulu, Priit; Käerdi, Helmo; Surženkov, Andrei; Tarbe, Riho; Veinthal, Renno; Goljandin, Dmitri; Zikin, Arkadi International journal of materials & product technology 2014 / p. 180-202 : ill <https://doi.org/10.1504/IJMP.2014.064038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recycled wc powder for manufacturing of duplex interpenetrating tool materials for dry machining

Kariminejad, Arash; Antonov, Maksim; Hussainova, Irina; Goljandin, Dmitri; Kumar, Rahul, 1993-; Klimczyk, Piotr GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / 1 p <https://fmt.dk.ut.ee/programm-2023/>

Recycling of agricultural wastes by disintegrating technology

Tamm, Boris, inform.; Tümanok, Aleksei; Goljandin, Dmitri Second Conference on Management and Control of Production and Logistics : July 5-8, 2000, Institut National Polytechnique de Grenoble, France. Summaries volume 2000 / p. 146

Recycling of electronic wastes by disintegrator mills and study of the separation technique of different materials

Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Kaasik, Martin; Ventsel, Teet; Vilsaar, Kristiina; Mikli, Valdek 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 43-44

Recycling of electronic wastes by disintegrator mills and study of the separation technique of different materials

Kers, Jaan; Kulu, Priit; Goljandin, Dmitri; Kaasik, Martin; Ventsel, Teet; Vilsaar, Kristiina; Mikli, Valdek Materials science 2008 / 4, p. 296-300 : ill

Recycling of niobium slag by disintegrator milling

Kulu, Priit; Goljandin, Dmitri; Külaviir, Jaan; Hain, Tiina; Kivisto, Mart Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 97-102 : ill
<https://www.scientific.net/KEM.799.97> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.97>
[Conference proceeding at Scopus](#) [Article at Scopus](#)

Recycling of outworn tyres by grinding at normal temperature

Tümanok, Aleksei; Tamm, Boris, inform.; Goljandin, Dmitri Intelligent assembly and disassembly : IAD '98 : a proceedings volume from the IFAC workshop, Bled, Slovenia, 21-23 May 1998 1998 / p. 167-172

Recycling of reinforced acrylic plastic wastes by high energy mills

Kers, Jaan; Goljandin, Dmitri; Kulu, Priit Proceedings of the 1st International Conference on Engineering for Waste Treatment : WasteEng 05 : 17-19 May, 2005, Albi, France 2005 / [6] p. : ill

Recycling of secondary raw materials for the production of new composite products: a devulcanised crumb rubber case study

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Kristine, I.; **Goljandin, Dmitri** 11th International Conference Biosystems Engineering : May 6-8, 2020 in Tartu, Estonia : book of abstracts [Võrguteavik] 2020 / p. 130 https://www.ester.ee/record=b5347289*est

Recycling of waste printed circuit boards by mechanical milling

Goljandin, Dmitri; Kulu, Priit; Klauson, Aleksander; Antonov, Maksim Proceedings of the Estonian Academy of Sciences 2024 / p. 43-49 <https://doi.org/10.3176/proc.2024.1.05>

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

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

Research of the possibility of producing finely divided materials from natural raw materials for reactive powder concretes by mechanochemistry

Abramov, M.A.; Stepanov, E.G.; **Goljandin, Dmitri;** Dobrokhoto, V.B. Journal of physics : conference series 2019 / art. 012023, 5 p. : ill <https://doi.org/10.1088/1757-899X/666/1/012023> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Retreatment of polymer wastes by disintegrator milling

Kulu, Priit; Goljandin, Dmitri Waste material recycling in the circular economy. Ed. by Dimitris S. Achilias 2021 / p. 80-121 : ill
<https://doi.org/10.5772/intechopen.99715>

Reuse of reinforced acrylic plastic waste in new composite material development

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

Selective disintegration–milling to obtain metal-rich particle fractions from E-waste

Blumbergs, Ervins; Serga, Vera; Shishkin, Andrei; **Goljandin, Dmitri**; Shishko, Andrei; Zemcenkovs, Vjaceslavs; Markus, Karlis; Baroninš, Janis; Pankratov, Vladimir Metals 2022 / art. 1468, 15 p. : ill <https://doi.org/10.3390/met12091468> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Sliding wear of TiC-NiMo and Cr₃C₂-Ni cermet particles reinforced FeCrSiB matrix HVOF sprayed coatings

Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Vilgo, Timo; Mikli, Valdek; Viljus, Mart; Latokartano, Jyrki; Kulu, Priit Estonian journal of engineering 2013 / p. 203-211 : ill <https://doi.org/10.3176/eng.2013.3.03> [Article at Scopus](#)

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

Lapkovskis, Vjaceslavs; Mironovs, Viktors; Irtiseva, Kristine; **Goljandin, Dmitri** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 148-152 : ill <https://www.scientific.net/KEM.799.148> https://www.ester.ee/record=b5235278*est
<https://doi.org/10.4028/www.scientific.net/KEM.799.148> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Suitability of devulcanized crumb rubber for oil spills remediation

Lapkovskis, Vjaceslavs; Mironovs, Viktors; **Goljandin, Dmitri** Energy procedia 2018 / p. 351-357 : ill
<https://doi.org/10.1016/j.egypro.2018.07.103> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Suspension fertilizer from excess sludge

Sokk, Olev; Goljandin, Dmitri Facing Sludge Diversities : Challenges, Risks and Opportunities : Antalaya, Turkey, 28-30 March 2007 : proceedings 2007 / p. 971-974

Sustainable e-waste recycling : environmental impact assessment of novel waste PCBs separation

Hosseini, Pooya; **Klauson, Artur**; Hendrickx, Brent; **Goljandin, Dmitri**; Duflou, Joost R. 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / art. 100344, 16 p. : ill <https://doi.org/10.1109/BEC61458.2024.10737968> [Conference proceedings at Scopus](#) [Article at Scopus](#)
[Article at WOS](#)

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](#)

Technology and equipment for producing of spheroidized metallic powders

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri Proceedings of Joint Nordic Conference in Powder Technology : May 5-6, 1999, Oslo, Norway 1999 / p. 14

Technology and equipment for production of hardmetal powders from used hardmetal

Kulu, Priit; Tümanok, Aleksei; Goljandin, Dmitri; Arensbürger, Daniil Proceedings of Joint Nordic Conference in Powder Technology 2000 / p. 39

The effect of fine erodent retained on the surface during erosion of metals, ceramics, plastic, rubber and hardmetal

Antonov, Maksim; Pirso, Jüri; Goljandin, Dmitri; Vallikivi, Ahto; Hussainova, Irina Wear 2016 / p. 53-68 : ill
<https://doi.org/10.1016/j.wear.2016.02.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The properties of mineral additives obtained by collision milling in disintegrator

Bumanis, Girts; **Goljandin, Dmitri**; Bajare, Diana Engineering materials and tribology XXV 2017 / p. 327-331
<https://doi.org/10.4028/www.scientific.net/KEM.721.327> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Theoretical model for grinding by collision ductile metal chips into metal powder

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri; Roshtshin, Sergei International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 130-132: ill

Thermal properties of calcium-aluminate based materials

Kulu, Priit; Goljandin, Dmitri; Traksmäa, Rainer; Kaljuvee, Tiit; Gregor, Andre Proceedings of the Estonian Academy of Sciences 2021 / p. 508-515 : ill <https://doi.org/10.3176/proc.2021.4.19> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal properties of calcium-aluminate based materials

Kulu, Priit; Goljandin, Dmitri; Traksmäa, Rainer; Kaljuvee, Tiit; Gregor, Andre IOP conference series : materials science and engineering 2021 / art. 012028, 7 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012028>

3D printing of plain and gradient cermets with efficient use of raw materials

Antonov, Maksim; Ivanov, Roman; Holovenko, Yaroslav; Goljandin, Dmitri; Rahmani Ahranjani, Ramin; Kollo, Lauri; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 239-245 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.239> https://www.ester.ee/record=b5235278*est [Conference proceeding at Scopus](#) [Article at Scopus](#)

3D printing of plain and gradient cermets with efficient use of raw materials

Antonov, Maksim; Ivanov, Roman; Holovenko, Yaroslav; Goljandin, Dmitri; Rahmani Ahranjani, Ramin; Kollo, Lauri; Hussainova, Irina Cermets : aggregated book 2023 / p. 83-90 <https://doi.org/10.4028/b-j9Oly>

TiAlN coatings tribology for textile machinery parts

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim Proceedings of the Estonian Academy of Sciences 2021 / p. 163-171 : ill <https://doi.org/10.3176/proc.2021.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TiCN coating tribology for the circular economy of textile industries

Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim; Viljus, Mart; Goljandin, Dmitri Journal of industrial textiles 2022 / p. 8947S-8959S <https://doi.org/10.1177%2F15280837211025726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Treatment of agricultural wastes using disintegrator

Goljandin, Dmitri; Tamm, Boris, inform.; Tümanok, Aleksei Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 3, p. 198-206 : ill https://artiklid.elnet.ee/record=b1004518*est

Tribological and circular economy aspects of polypropylene/cotton fibre hybrid composite

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Kumar, Rahul, 1993-; Kamboj, Nikhil Kumar; Rahmani Ahranjani, Ramin; Viljus, Mart; Ahmad, Tahir; Krumme, Andres; Krasnou, Illia Proceedings of the Estonian Academy of Sciences 2022 / p. 186-193 : ill <https://doi.org/10.3176/proc.2022.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological and mechanical properties investigations of post-consumer cotton textiles

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Viljus, Mart; Antonov, Maksim; Bogatov, Andrei; Krasnou, Illia Solid state phenomena ; 320 2021 / p. 97-102 <https://doi.org/10.4028/www.scientific.net/SSP.320.97> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Tribology of alumina materials for the circular economy of manufacturing textile industries

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Viljus, Mart Proceedings of the Estonian Academy of Sciences 2021 / lk. 215-220 : ill <https://doi.org/10.3176/proc.2021.3.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ultrafine alloy powders for corrosion and wear resistant coatings

Kulu, Priit; Goljandin, Dmitri; Zimakov, Sergei Proceedings of Joint Nordic Conference in Powder Technology combining The 5th Annual Finnish Powder Metallurgy Network Seminar : Tampere, Finland, 2003 2003 / p. 7

Ultrafine metal powders produced by grinding from the industrial wastes

Goljandin, Dmitri; Kulu, Priit TMS Fall 2002 Extraction and Processing Division Meeting on Recycling and Waste Treatment in Mineral and Metal Processing : technical and economic aspects, 16-20 June 2002, Lulea, Sweden. Vol. 1 2002 / p. 277-284

Using stochastic optimization for modelling of the new composite from recycled GFP

Kers, Jaan; Goljandin, Dmitri; Majak, Jüri Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 461-466 : ill

Utilization of used tyres by grinding at normal temperature

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri Materials Engineering - 98 : materials of the VII-th International Baltic Conference, September 24-25, Jurmala, Latvia 1998 / p. 150-155: ill

Utilization of used tyres by grinding at normal temperature

Tümanok, Aleksei; Kulu, Priit; Goljandin, Dmitri Proceedings of the Third National DAAAM Conference in Estonia : SCIENCE '98 1998 / p. 99-102: ill

WC tribology for circular economy of manufacturing textile industries

Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim; Goljandin, Dmitri; Viljus, Mart GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 33 https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Wear behavior of recycled hard particle reinforced NiCrBSi hardfacings deposited by plasma transferred arc (PTA) process

Zikin, Arkadi; Hussainova, Irina; Katsich, Christian; Kulu, Priit; Goljandin, Dmitri Engineering materials and tribology 2013 / p. 179-184

https://www.researchgate.net/publication/236332219_Wear_Behaviour_of_Recycled_Hard_Particle_Reinforced_NiCrBSi_Hardfacings_Deposited_by_Plasma_Transferred_Arc_PTA_Process

Wear resistance of sintered composite hardfacings under different abrasive wear conditions

Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Tarbe, Riho; Goljandin, Dmitri; Tarraste, Marek; Viljus, Mart; Traksmäa, Rainer Medžiagotyra = Materials science 2017 / p. 249-253 : ill <https://doi.org/10.5755/j01.ms.23.3.17640> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders

Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 25

Wear resistant thermal sprayed composite coatings based on iron self-fluxing alloy and recycled cermet powders

Sarjas, Heikki; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Surženkov, Andrei; Vuoristo, Petri Materials science = Medžiagotyra 2012 / p. 34-39 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1338>