

#### **Abrasivity and grindability study of mineral ores**

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

#### **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](#)

#### **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

#### **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>

#### **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](https://www.ester.ee/record=b5347289*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](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](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>

**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>

**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 BALTMATTRIB 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.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 <http://dx.doi.org/10.1016/j.wear.2015.02.063>

**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

**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>

**Extremes of apparent and tap densities of recovered GFRP filler materials**  
**Kers, Jaan; Majak, Jüri; Goljandin, Dmitri; Gregor, Andre; Malmstein, M.; Vilsaar, Kristiina** Composite structures 2010 / 9, p. 2097-2101 : ill

**Heat conductive plates from recycled niobium slag**  
**Kulu, Priit; Goljandin, Dmitri; Viljus, Mart; Traksmäa, 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; Traksmäa, Rainer; Viljus, Mart; Talviste, Kristofer; Aruniit, Aare**; Latokartano, Jyrki; **Kulu, Priit** Medžiagotyra = Materials science 2015 / p. 386-390 : ill <http://dx.doi.org/10.5755/j01.ms.21.3.7617>

**High-temperature erosion of Fe-based coatings reinforced with cermet particles**  
**Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Kulu, Priit; Viljus, Mart; Traksmäa, Rainer; Mere, Arvo** Surface engineering 2016 / p. 624-630 : ill <http://dx.doi.org/10.1080/02670844.2016.1145377>

**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 2023 / 17 p. : ill <https://doi.org/10.1177/07316844231164563>

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

**Kallakas, Heikko; Ayansola, Gbenga; Tumannov, 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. 216-220 <https://doi.org/10.4028/www.scientific.net/KEM.800.216> [Conference proceeding at Scopus](#) [Article at Scopus](#)

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

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

**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](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](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

**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

**Micropowders produced by disintegrator milling**

**Peetsalu, Priidu; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo** Powder metallurgy progress 2003 / 2, p. 99-110 : ill

**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

**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](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](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

**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 <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.351>

**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

### **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>

### **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

### **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

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

**Kariminejad, Arash; Antonov, Maksim; Hussainova, Irina; Goljandin, Dmitri; Kumar, Rahul; Klimczyk, Piotr** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / 1 p <https://fmtk.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://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](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; Dobrokhotov, 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; Baronins, 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 Cr<sub>3</sub>C<sub>2</sub>-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

#### **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://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 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>

#### **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 <http://dx.doi.org/10.1016/j.wear.2016.02.018>

#### **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.scientific.net/KEM.799.239> [https://www.ester.ee/record=b5235278\\*est](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; Rahmaniahranjani, 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](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://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdtk.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](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 <http://dx.doi.org/10.5755/J01.ms.23.3.17640>

**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>