

#### **Abrasive wear powder materials and coatings**

Kulu, Priit; Tarbe, Riho; Vallikivi, Ahto Materials science = Medžiagotyra 2005 / p. 230-234 : ill

#### **Boron carbide based composites manufacturing and recycling features**

Kommel, Lembit; Kimmari, Eduard Materials science = Medžiagotyra 2006 / 1, p. 48-52 : ill

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

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

#### **Comparative study of the PVD coatings on the plasma nitrided steel**

Surženkov, Andrei; Pödra, Priit; Sergejev, Fjodor; Saarna, Mart; Adoberg, Eron; Mikli, Valdek; Viljus, Mart; Kulu, Priit Materials science = Medžiagotyra 2012 / p. 40-44 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1339>

#### **Comparison of plasma transferred arc and submerged arc welded abrasive wear resistant composite hardfacings**

Simson, Taavi; Kulu, Priit; Surženkov, Andrei; Ciuplys, Antanas; Viljus, Mart; Zaldarys, Gintautas Materials science = Medžiagotyra 2018 / p. 172-176 : ill <https://doi.org/10.5755/j01.ms.24.2.19121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Comparison of some mechanical and physical methods for measurement of residual stresses in brush-plated nickel hardened gold and silver coatings**

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; Sergejev, Fjodor; Matvejev, Dmitri Materials science = Medžiagotyra 2016 / p. 36-40 : ill <https://doi.org/10.5755/j01.ms.22.1.7439> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Decarburisation effect on hardened strip steel fastening components**

Jaason, Karli; Peetsalu, Priidu; Saarna, Mart; Kulu, Priit; Beilmann, Jüri Materials science = Medžiagotyra 2016 / p. 148-152 : ill <https://doi.org/10.5755/j01.ms.22.1.7467> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Design and testing of sandwich structures with different core materials**

Herranen, Henrik; Pabut, Ott; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Kers, Jaan; Saarna, Mart; Allikas, Georg; Aruniit, Aare Materials science = Medžiagotyra 2012 / p. 45-50 : ill [https://www.researchgate.net/publication/268366546\\_Design\\_and\\_Testing\\_of\\_Sandwich\\_Structures\\_with\\_Different\\_Core\\_Materials](https://www.researchgate.net/publication/268366546_Design_and_Testing_of_Sandwich_Structures_with_Different_Core_Materials)

#### **Determination of modulus of elasticity, nanohardness and residual stresses in brush-plated gold and silver coatings on copper substrate**

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor Materials science = Medžiagotyra 2012 / p. 51-56 : ill [https://www.researchgate.net/publication/266348938\\_Determination\\_of\\_Modulus\\_of\\_Elasticity\\_Nanohardness\\_and\\_Residual\\_Stresses\\_in\\_Brush-plated\\_Gold\\_and\\_Silver\\_Coatings\\_on\\_Copper\\_Substrate](https://www.researchgate.net/publication/266348938_Determination_of_Modulus_of_Elasticity_Nanohardness_and_Residual_Stresses_in_Brush-plated_Gold_and_Silver_Coatings_on_Copper_Substrate)

#### **Determination of vaporization properties and volatile hazardous components relevant to kukersite oil shale derived fuel oil handling**

Traumann, Ada; Tint, Piia; Järvik, Oliver; Oja, Vahur Materials science = Medžiagotyra 2014 / p. 351-356 : ill <https://doi.org/10.5755/j01.ms.20.3.4549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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

#### **Effect of carbon stabilizing elements on WC cemented carbides with chromium steel binder**

Tarraste, Marek; Kūbarsepp, Jakob; Juhani, Kristjan; Mere, Arvo; Viljus, Mart Materials science = Medžiagotyra 2019 / p. 202-206 : ill <https://doi.org/10.5755/j01.ms.25.2.19619> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of TiB<sub>2</sub> additives on wear behavior of NiCrBSi-based plasma-sprayed coatings**

Umanskyi, Oleksandr; Storozhenko, Maryna; Hussainova, Irina; Terentjev, Oleksandr; Kovalchenko, Andrey; Antonov, Maksim Materials science = Medžiagotyra 2016 / p. 15-19 : ill <https://doi.org/10.5755/j01.ms.22.1.7307> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

#### **Fibrillation of aspen by alkaline cold pre-treatment and vibration milling**

Kärner, Kärt; Elomaa, Matti Antero; Kallavus, Urve Materials science = Medžiagotyra 2016 / p. 358-363 : ill <https://doi.org/10.5755/j01.ms.22.3.7412> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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](https://www.researchgate.net/publication/268257498_Fracture_Toughness_of_Ceramics_Fired_at_Different_Temperatures)

#### **Friction and wear changes of boron carbide cermets depending on the structure**

**Kommel, Lembit; Kimmari, Eduard** Materials science = Medžiagotyra 2003 / 1, p. 51-53 : ill

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

**Kollo, Lauri; Kallip, Kaspar; Gomon, Jaana-Kateriina; Kommel, Lembit** Materials science = Medžiagotyra 2012 / p. 234-237 : ill  
[https://www.researchgate.net/publication/267226658\\_Hot\\_Consolidation\\_of\\_Aluminium\\_and\\_Aluminium\\_nano-MMC\\_Powders\\_by\\_Equal\\_Channel\\_Angular\\_Pressing](https://www.researchgate.net/publication/267226658_Hot_Consolidation_of_Aluminium_and_Aluminium_nano-MMC_Powders_by_Equal_Channel_Angular_Pressing)

**Improving the oxygen barrier of polyamide food packaging by using nanoclay**

**Paara, Tõnis; Lange, Sven; Saal, Kristjan; Lõhmus, Rünno; Krumme, Andres; Mändar, Hugo** Materials science = Medžiagotyra 2022 / p. 217-223 <https://doi.org/10.5755/j02.ms.28868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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](https://www.researchgate.net/publication/242220059_Influence_of_Strain_Rate_and_Temperature_on_Mechanical_Properties_and_Fracture_Mechanism_of_Dispersion_Strengthened_Al12Al4C3_System)

**Internal stresses in diffusion bonded joints**

**Laansoo, Andres; Kübarsepp, Jakob; Saarna, Mart; Klaasen, Heinrich** Materials science = Medžiagotyra 2006 / 2, p. 110-113 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/26413>

**Investigation of (Ti, Al)N based coatings grown by physical vapor deposition**

**Podgurski, Vitali; Torp, Bo; Traksmas, Rainer; Veinthal, Renno; Viljus, Mart; Coddet, Olivier; Morstein, Marcus; Gregor, Andre; Kulu, Priit** Materials science = Medžiagotyra 2005 / 4, p. 352-355 : ill  
[https://www.researchgate.net/publication/237812860\\_Investigation\\_of\\_Ti\\_Aln\\_Based\\_Coatings\\_Grown\\_by\\_Physical\\_Vapor\\_Deposition](https://www.researchgate.net/publication/237812860_Investigation_of_Ti_Aln_Based_Coatings_Grown_by_Physical_Vapor_Deposition)

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

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

**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](https://www.researchgate.net/publication/267243513_Metal-Matrix_HardmetalCermet_Reinforced_Composite_Powders_for_Thermal_Spray)

**Microstructure, properties and atomic level strain in severely deformed rare metal niobium**

**Kommel, Lembit; Saarna, Mart; Traksmas, Rainer; Kommel, Igor** Materials science = Medžiagotyra 2012 / p. 330-335 : ill  
[https://www.researchgate.net/publication/272702114\\_Microstructure\\_Properties\\_and\\_Atomic\\_Level\\_Strain\\_in\\_Severely\\_Deformed\\_Rare\\_Metal\\_Niobium](https://www.researchgate.net/publication/272702114_Microstructure_Properties_and_Atomic_Level_Strain_in_Severely_Deformed_Rare_Metal_Niobium)

**Multiple swelling of pinewood (Pinus Sylvestris) in binary and ternary mixtures of ethanol, acetone and water**

**Meier, Pille; Kallavus, Urve; Rohumaa, Anti; Kaps, Tiit** Materials science = Medžiagotyra 2006 / 1, p. 25-30 : ill  
<https://matsc.ktu.lt/index.php/MatSc/article/view/26397>

**A new route for evaluating short chain branching distribution of high density polyethylene by measuring crystallizability of molar mass fractions**

**Krumme, Andres; Basiura, Monika; Pijpers, Thijs; Vanden Poel, Geert; Heinz, Lars-Christian; Brüll, Robert; Mathot, Vincet** Materials science = Medžiagotyra 2011 / p. 260-265 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/590>

**A non-linear deformation model for particle impact process**

**Pappel, Toivo; Põdra, Priit; Järvpõld, Neeme** Materials science = Medžiagotyra 2009 / p. 32-34  
<https://matsc.ktu.lt/index.php/MatSc/article/view/26116>

**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 of cemented carbides in cyclic loading conditions**

**Klaasen, Heinrich; Kübarsepp, Jakob; Sergejev, Fjodor; Traksmas, Rainer** Materials science = Medžiagotyra 2006 / 2, p. 144-146 : ill

**Phases micromechanical properties of Ni-base superalloy measured by nanoindentation**

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

**Plasma transferred ARC (PTA) hardfacing of recycled hardmetal reinforced nickel-matrix surface composites**

**Zikin, Arkadi; Ilo, Sotirag; Kulu, Priit; Hussainova, Irina; Katsich, Christian; Badisch, Ewald** Materials science = Medžiagotyra 2012 / p. 12-17 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1334>

**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>

**Properties of dimension (facing) stone from Estonian dolostone**

**Pöldme, Meeme; Kallavus, Urve; Schvede, Jüri; Traksmäa, Rainer** Materials science = Medžiagotyra 2003 / 2, p. 213-217 : ill

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

Luyima, Alex; Zhang, Lifeng; **Kers, Jaan; Laurmaa, Viktor** Materials science = Medžiagotyra 2012 / p. 238-242 : ill [https://www.researchgate.net/publication/268386159\\_Recovery\\_of\\_Metallic\\_Materials\\_from\\_Printed\\_Wiring\\_Boards\\_by\\_Green\\_Pyrolysis\\_Process](https://www.researchgate.net/publication/268386159_Recovery_of_Metallic_Materials_from_Printed_Wiring_Boards_by_Green_Pyrolysis_Process)

**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

**Structure formation in Ti-C-Ni-Mo composites during reactive sintering**

**Viljus, Mart; Pirso, Jüri; Juhani, Kristjan; Letunovitš, Sergei** Materials science = Medžiagotyra 2012 / p. 62-65 : ill

**Swelling of pinewood (Pinus Sylvestris) in binary aqueous solutions of organic substances**

**Meier, Pille; Kaps, Tiit; Kallavus, Urve** Materials science = Medžiagotyra 2005 / 2, p. 140-145 : ill

**Technology and characterization of composite thermal spray powders**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** Materials science = Medžiagotyra 2005 / 4, p. 385-389 : ill

**The aluminum based composite produced by Self propagating High temperature Synthesis**

**Pramono, Agus; Kommel, Lembit; Kollo, Lauri; Veinthal, Renno** Materials science = Medžiagotyra 2016 / p. 41-43 : ill <https://doi.org/10.5755/j01.ms.22.1.7500> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The formation of structure and change of properties during heat treatment of boron carbide composites**

**Kommel, Lembit; Veinthal, Renno; Kimmari, Eduard** Materials science = Medžiagotyra 2003 / 1, p. 99-101 : ill

**The influence of Cr<sub>3</sub>C<sub>2</sub> 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>

**Thermal analyses of blends of hyperbranched linear low-density polyethylene (LLDPE) with high-density polyethylene and LLDPE prepared by dissolving method**

**Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Roots, Jaan; Viikna, Anti** Materials science = Medžiagotyra 2011 / p. 254-259 : ill

**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>