

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

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

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

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

Binder jetting 3D printing of green TiC-FeCr based cermets- Effect of sintering temperature and systematic comparison study with Laser powder bed fusion fabricated parts

Maurya, Himanshu Singh; Marczyk, J.; Juhani, Kristjan; Sergejev, Fjodor; Kumar, R.; Hussain, Abrar; Akhtar, F.; Hebda, M.; Prashanth, Konda Gokuldoss Materials Today Advances 2025 / art. 100562 <https://doi.org/10.1016/j.mtadv.2025.100562>

Carbide grain and structure formation in Cr₃C₂-base cermets during sintering

Viljus, Mart; Traksmaa, Rainer; Pirso, Jüri Proceedings of Joint Nordic Conference in Powder Technology 2000 / p. 24

Characterization of TiC-FeCrMn cermets produced by powder metallurgy method

Kolnes, Märt; Kübarsepp, Jakob; Kollo, Lauri; Viljus, Mart Medžiagotyra = Materials science 2015 / p. 353-357 : ill <http://dx.doi.org/10.5755/j01.ms.21.3.7364>

Combination of SLM-SPS approaches for tribological, antibacterial and biomaterial applications = Kombineeritud SLM-SPS meetod triboloogiliste, antibakteriaalsete ja biosobivate materjalide valmistamiseks

Rahmani Ahranjani, Ramin 2020 <https://digikogu.taltech.ee/et/Item/4cd6a755-29d9-4168-a281-a21edca6c729>

Combined sol-gel and carbothermal synthesis of ZrC-TiC powders for composites

Umalas, Madis; Hussainova, Irina; Reedo, Valter; Yung, Der-Liang Materials chemistry and physics 2015 / p. 301-306 : ill <http://dx.doi.org/10.1016/j.matchemphys.2015.01.017>

Combustion synthesis of MoSi₂ based composite and selective laser sintering thereof

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

Comparative study of microstructure and mechanical properties of Mg/B₄C composites: Influence of sintering method and temperature

Ghasali, Ehsan; Kariminejad, Arash; Raza, Saleem; Orooji, Yasin; Paimard, Giti; Babenko, Andrii; Jie, Li; Ebadzadeh, Touradj Materials chemistry and physics 2024 / art. 129876 <https://doi.org/10.1016/j.matchemphys.2024.129876>

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

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

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

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

Das Reibungsverhalten der Sinter-Miniaturprismenlager

Ajaots, Maido; Angelštok, Feliks 10e Congrès international de chronométrie, Genève, 11 au 14 septembre 1979 : Actes = 10. Internationaler Kongress für Chronometrie = 10th International Congress of Chronometry 1979 / S. 395-399 : ill

Densification and characterization of spark plasma sintered ZrC-ZrO₂ composites

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

Densification and microstructure development in zirconia toughened hardmetals

Voltšihhin, Nikolai; Hussainova, Irina; Cura, M. Erkin; Hannula, Simo-Pekka; Traksmaa, Rainer Engineering materials and tribology 2013 / p. 50-55 : ill

Densification of the eggshell powder by spark plasma sintering

Shukla, Riddhi Hirenkumar; Sokkalingam, Rathinavelu; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2023 / art. 171079 <https://doi.org/10.1016/j.jallcom.2023.171079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Detailed modeling of sorptive and textural properties of CaO-based sorbents with various porous structures

Bazaikin, Ya.V.; Malkovich, E.G.; Prokhorov, D.I.; **Derevshchikov, Vladimir** Separation and purification technology 2021 / art. 117746, 12 p. : ill <https://doi.org/10.1016/j.seppur.2020.117746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of fusion and sintering characteristics of ashes

Ots, Arvo; Żelkowski, Jacek 5th International Conference on Heat Engines and Environmental Protection : May 28-30, 2001, Balatonfüred, Hungary : proceedings 2001 / p. 107-112 : ill

Development and manufacturing a selfshielding model

Pääsuke, Kaarel; Voll, Hendrik Latest Trends on Engineering Education : 7th WSEAS International Conference on Education and Educational Technologies : Corfu Island, Greece, July 22-24, 2010 2010 / p. 122-127 <http://www.wseas.us/e-library/conferences/2010/Corfu/EDUCATION/EDUCATION-19.pdf>

Development of cemented carbides with high chromium iron alloy binder = Kõrge kroomisisaldusega rauasulamsideainega kõvasulamite arendus

Tarraste, Marek 2018 <https://digi.lib.ttu.ee/i/?9959> https://www.ester.ee/record=b5138025*est

Development of Young's modulus of illitic clay during heating up to 1100 °C

Hulan, Tomaš; Trnik, Anton; Štubna, Igor; Bačik, Peter; **Kaljuvee, Tiit**; Vozar, Libor Medžiagotyra = Materials science 2015 / p. 429-434 : ill <http://dx.doi.org/10.5755/j01.ms.21.3.7152>

Developments in cermet design, technology and performance

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

Double-cemented recycled hardmetal based powders for thermal spray

Mikli, Valdek; Kulu, Priit; Tarbe, Riho; Peetsalu, Priidu Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 211-214 : ill

Effect of carbon content on sinterability and properties of ZrO₂ doped WC-cermets

Cura, M. Erkin; **Voltšihin, Nikolai; Hussainova, Irina; Viljus, Mart**; Hannula, Simo-Pekka Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 771-776

Effect of sintering conditions on microstructure and performance of TiC-FeCrMn cermets [Electronic resource]

Kolnes, Märt; Kübarsepp, Jakob; Viljus, Mart; Traksmäe, Rainer; Illopmägi, Siim World PM2016 proceedings 2016 / [7] p. : ill. [USB]

Effect of sintering method on surface fatigue of carbide composites

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

Electrodeposited ZnO morphology transformations under the influence of SeO₂ additive: Rods, disks, nanosheets network

Gromõko, Inga; Dedova, Tatjana; Polivtseva, Svetlana; Kois, Julia; Puust, Laurits; Sildos, Ilmo; **Mere, Arvo; Krunks, Malle** Thin solid films 2018 / p. 10-15 : ill <https://doi.org/10.1016/j.tsf.2017.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fabrication, potentiometric characterization, and application of screen-printed RuO₂ pH electrodes for water quality testing

Uppuluri, Kiranmai; **Lazouskaya, Maryna**; Szwagierczak, Dorota; Zaraska, Krzysztof; Tamm, Martti Sensors 2021 / art. 5399, 15 p. : ill <https://doi.org/10.3390/s21165399> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Basit, Muhammad Abdul; **Anwar, Furqan**; Ali, Sadaqat; Umer, Malik Adeel; Shahbaz, Tauheed; Ud Din, Emad; Mubashar, Aamir Ceramics international 2024 / 12 p <https://doi.org/10.1016/j.ceramint.2024.09.121>

Formation of fine Mg₂Si phase in Mg-Si alloy via solid-state sintering using high energy ball milling

Seth, Prem Prakash; **Singh, Neera**; Singh, Manoj; Prakash, Om; Kumar, Devendra Journal of alloys and compounds 2020 / art. 153205, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2019.153205> [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

Functionally gradient Ti6Al4V-TiB composite produced by spark plasma sintering

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

Fusibility and sintering characteristics of ash

Ots, Arvo Power technology and engineering 2012 / p. 460-465 : ill <https://link.springer.com/article/10.1007/s10749-012-0294-0>

Fusion and sintering characterization of coal ashes

Ots, Arvo; Żelkowski, Jacek 11th International Conference on Coal Science : exploring the horizons of coal : September 30 - October 5, 2001 2001 / [8] p

Gesinterte Kupferlegierungen als Material für Elektrokontakte der Schweißmaschinen

Arensburger, Daniil Tallinna Tehnikaülikooli Toimetised 1994 / lk. 91-100: ill

Graphene covered alumina nanofibers as toughening agent in alumina ceramics

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

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

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

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

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

Hybrid graphene/alumina nanofibers for electroconductive zirconia

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

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

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

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

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

Influence of sintering techniques on performance characteristics of TiC-based cermet

Tšinjan, Aleksei; Klaasen, Heinrich; Kübarsepp, Jakob; Annuka, Harri 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 26

Influence of sintering techniques on the performance characteristics of steel-bonded TiC-based cermets

Tšinjan, Aleksei; Klaasen, Heinrich; Kübarsepp, Jakob; Annuka, Harri Estonian journal of engineering 2009 / 4, p. 283-292 : ill https://www.researchgate.net/publication/237428192_Influence_of_sintering_techniques_on_the_performance_characteristics_of_steel-bonded_TiC-based_cermets

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

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

In-situ alloying of TiC-FeCr cermets in manganese vapour

Kolnes, Märt; Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Viljus, Mart Proceedings of the Estonian Academy of Sciences 2021 / p. 533-539 : ill <https://doi.org/10.3176/proc.2021.4.22> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Isothermal oxidation of SLM fabricated Mo(Si_{1-x}Al_x)₂-based composite

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

Kasututest munakoortest saaks teha tehisiigeseid

Shukla, Riddhi Hirenkumar novaator.err.ee 2024 [Kasututest munakoortest saaks teha tehisiigeseid](#)

Laserpaagutus : virtuaalmudelid saab toode

Pohlak, Meelis Inseneeria 2009 / 5(13), lk. 30-32 : ill https://artiklid.elnet.ee/record=b1451828*est

Lightweight 3D printed Ti6Al4V-AISI10Mg hybrid composite for impact resistance and armor piercing shielding

Rahmani Ahranjani, Ramin; Antonov, Maksim; Brojan, Miha Journal of materials research and technology 2020 / p. 13842-13854 : ill <https://doi.org/10.1016/j.jmrt.2020.09.108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Material recycling and improvement issues in additive manufacturing

Mägi, Piret; Krumme, Andres; Pohlak, Meelis Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 63-68 : ill

Material recycling and improvement issues in additive manufacturing

Mägi, Piret; Krumme, Andres Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 86

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

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

Mechanically activated synthesis of chromium carbide

Viljus, Mart; Letunovičs, Sergei; Traksmaa, Rainer; Pirso, Jüri Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 220-223 : ill

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

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

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

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

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

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

Microstructure evolution in WC-Co composites during reactive sintering from nanocrystalline powders [Electronic resource]

Pirso, Jüri; Viljus, Mart; Joost, Renee; Juhani, Kristjan; Letunovičs, Sergei Advances in Powder Metallurgy & Particulate Materials 2008 2008 / [12] p. : ill. [CD-ROM]

Microstructure evolution of WC-TiC-CO cemented carbides during reactive sintering

Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Microstructure evolution of WC-TiC-Co cemented carbides during reactive sintering [Electronic resource]

Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Traksmaa, Rainer; Letunovičs, Sergei Proceedings of the 18th Plansee Seminar : International Conference on Refractory Metals and Hard Materials : Reutte/Austria, 3-7 June, 2013 2013 / p. HM 70/1-HM 70/7 [CD-ROM]

Microstructure formation and performance of reactive sintered titanium oxycarbide base ceramic-ceramic composites

Juhani, Kristjan; Kübarsepp, Jakob; Tarraste, Marek; Pirso, Jüri; Viljus, Mart Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 131-135 : ill <https://www.scientific.net/KEM.799.131> https://www.ester.ee/record=b5235278*est
<https://doi.org/10.4028/www.scientific.net/KEM.799.131> Conference proceeding at Scopus Article at Scopus

Microwave synthesis of B4C nanopowder for subsequent spark plasma sintering

Davtyan, D.; Mnatsakanyan, R.A.; Liu, Le; Aydinyan, Sofiya; Hussainova, Irina Journal of materials research and technology 2019 / p. 5823-5832 : ill <https://doi.org/10.1016/j.jmrt.2019.09.052> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Mo-Cu pseudoalloys by combustion synthesis and spark plasma sintering

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

MoSi2 based composites preparation by combustion synthesis with subsequent selective laser sintering [Online resource]

Minasyan, Tatevik; Rodriguez, Miguel Angel; Liu, Le; Aghayan, Marina; Kollo, Lauri; Hussainova, Irina Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L07 http://2018.cimtec-congress.org/abstracts_focused_session_cb-10

New materials through a variety of sintering methods

Jaworska, L.; Cyboron, J.; Cygan, Slawomir; Laszkiewicz-Łukasik, J.; Podsiadło, M.; Novak, P.; Holovenko, Yaroslav E-MRS Fall Symposium I: Solutions for Critical Raw Materials Under Extreme Conditions (E-MRS 2017) : Warsaw, Poland 18-21 September 2017 2018 / art. 012004 : ill <https://doi.org/10.1088/1757-899X/329/1/012004> Conference proceeding at Scopus Article at Scopus Article at WOS

Novel methods for hardmetal production and recycling = Uudsed meetodid WC-Co kõvasulamite valmistamiseks ja taaskasutamiseks

Joost, Renee 2010 https://www.ester.ee/record=b2604910*est

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

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

Optimierung des Herstellungsvorganges von Chromkarbid-Sinterlegierungen mit Hilfe Mathematischer Modell

Valdma, Leo; Pirso, Jüri Periodica polytechnica. Mechanical engineering = Машиностроение 1975 / p. 217-223 : ill https://www.ester.ee/record=b1198774*est

Optimization of WC-Ni-ZrO2 structure

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

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

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

Paagutatud ja sepistatud terase struktuur ja omadused

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

Paagutatud kõvasulamid

Pirso, Jüri Tehnika ja Tootmine 1984 / lk. 16-17 https://www.ester.ee/record=b1073047*est

Phase evolution, microstructure characteristics and properties of Cr3C2-Ni cermets prepared by reactive sintering

Juhani, Kristjan; Pirso, Jüri; Letunovič, Sergei; Viljus, Mart International journal of materials & product technology 2011 / p. 75-91 : ill

Powder metallurgy of Al0.1CoCrFeNi high-entropy alloy

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

Preliminary analysis of soft magnetic material properties for additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Rassõlkin, Anton; Vaimann, Toomas 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. 270-275 : ill <https://www.scientific.net/KEM.799.270> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.270> Conference proceeding at Scopus Article at Scopus

Pressurized sintering of TiC-base cermets

Klaasen, Heinrich; Kollo, Lauri; Kübarsepp, Jakob; Viljus, Mart Proceedings of European Powder Metallurgy Congress : EURO PM2007 : Toulouse (France), 15-17 October 2007. Vol. 1 2007 / p. 215-220

Processing and mechanical properties of ZrC-ZrO₂ composites

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

Processing and tribological properties of Cr₃C₂

Jevgrafova, Natalja; Hussainova, Irina International Symposium on Machine Design OST 2001 : [Tallinn, Estonia, October 4-5, 2001] : abstracts 2001 / [1] p

Processing and tribological properties of Cr₃C₂

Jevgrafova, Natalja; Hussainova, Irina OST-01 Symposium on Machine Design : Tallinn, Estonia, October 4-5, 2001 : proceedings 2001 / p. 245-250 : ill

Processing of ZrC-TiC composites by SPS

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

Reactive carburizing sintering

Pirso, Jüri; Viljus, Mart; Juhani, Kristjan; Letunovitš, Sergei High temperature processes in chemical engineering 2010 / p. 309-334 : ill

Reactive carburizing sintering - a novel production method for high quality chromium carbide-nickel cermets

Pirso, Jüri; Viljus, Mart; Letunovitš, Sergei; Juhani, Kristjan International journal of refractory metals & hard materials 2006 / 3, p. 263-270 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0263436805000909>

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

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

Reactive sintering - a new method for producing Cr₃C₂-Ni cermets

Viljus, Mart; Pirso, Jüri; Letunovitš, Sergei Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 29

Reactive sintering of bimodal WC-Co hardmetals

Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart Medžiagotyra = Materials science 2015 / p. 382-385 : ill <http://dx.doi.org/10.5755/j01.ms.21.3.7511>

Reactive sintering of Cr₃C₂-Ni cermets

Viljus, Mart; Pirso, Jüri Abstracts of the 12th Joint Nordic Conference in Powder Technology : Tampere, Finland, 2003 2003 / p. 24

Reactive sintering of zirconium carbide based systems

Yung, Der-Liang; Kollo, Lauri; Hussainova, Irina; Zikin, Arkadi Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 783-788 : ill

Reactive sintering of ZrC-TiC composites

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

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

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

Reactive sintering of WC-Cr-Co hardmetals [Electronic resource]

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

Recycling of PA-12 in additive manufacturing and the improvement of its mechanical properties

Mägi, Piret; Krumme, Andres; Pohlak, Meelis Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 9-14 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.9> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Recycling of WC-Co hardmetals by oxidation and carbothermal reduction in combination with reactive sintering

Joost, Renee; Pirso, Jüri; Viljus, Mart; Letunovič, Sergei; Juhani, Kristjan Estonian journal of engineering 2012 / p. 127-139 : ill

Reliability characteristics of sinterhipped hardmetals

Klaasen, Heinrich; Kübarsepp, Jakob Materials Engineering & Baltrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 55-57

Selective laser melting for manufacturing of MoSi₂/Si₃N₄ composites

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

Selective laser melting of diamond-containing or postnitrided materials intended for impact-abrasive conditions: experimental and analytical study

Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri Advances in materials science and engineering 2019 / art. 4210762 ; 11 p. : ill <https://doi.org/10.1155/2019/4210762> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Sintering and fouling characterization of ashes with high calcium oxide content

Ots, Arvo; Parve, Teet; Skrifvars, Bengt-Johan; Hupa, Mikko Proceedings of the 13th International Conference on Fluidized Bed Combustion. Vol. 2 1995 / [13] p.: ill

Sintering of high Mn cemented carbides in Mn-rich environment

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

Sintering of silicon carbide obtained by combustion synthesis

Amirkhanyan, Narine; Kirakosyan, Hasmik; Zakaryan, Marieta; Zurnachyan, Alina; Rodriguez, Miguel Angel; Abovyan, L.; Aydinyan, Sofiya Ceramics international 2023 / p. 26129-26134 <https://doi.org/10.1016/j.ceramint.2023.04.233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sintering of zirconium carbide-based composites

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

Sintering parameters of TiC cermets with FeCr binder

Kolnes, Märt; Kübarsepp, Jakob TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Sintering routes for zirconia doped hardmetals

Voltšihhin, Nikolai; Cura, M. Erkin; Hussainova, Irina; Hannula, Simo-Pekka Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 765-770 : ill

Sintering technology and properties of TiC-base cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Kollo, Lauri Engineering Materials & Tribology 2004 : materials of the XIII-th International Baltic Conference : September 23-24, Riga, Latvia 2004 / p. 56-57

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

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

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

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

Spark plasma sintering of 13Ni-400 maraging steel: Enhancement of mechanical properties through surface modification
Patil, Viraj Vishwas; Prashanth, Konda Gokuldoss; Mohanty, Chinmaya P. Journal of alloys and compounds 2023 / art. 170734 : ill
<https://doi.org/10.1016/j.jallcom.2023.170734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark plasma sintering of combustion synthesized TiB₂-Si composite
Liu, Le; Aydinyan, Sofiya; Minasyan, Tatevik; Baroninš, Janis; Antonov, Maksim; Kharatyan, Suren; Hussainova, Irina
Ceramics in modern technologies 2019 / p. 59-66 <https://doi.org/10.29272/cmt.2018.0009>

Spark plasma sintering of layered γ -Al₂O₃/graphene reinforced nanocomposites
Saffarshamshirgar, Ali; Ivanov, Roman; Hussainova, Irina Proceedings of the Estonian Academy of Sciences 2019 / p. 140–144
: ill <https://doi.org/10.3176/proc.2019.2.04> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-140-144.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Spark plasma sintering of Ti6Al4V metal matrix composites: Microstructure, mechanical and corrosion properties
Singh, Neera; Ummethala, Raghunandan; Karamched, Phani S.; Sokkalingam, Rathinavelu; Gopal, Vasanth; Manivasagam, G.; Prashanth, Konda Gokuldoss Journal of alloys and compounds 2021 / art. 158875, 10 p. : ill
<https://doi.org/10.1016/j.jallcom.2021.158875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark plasma sintering of WC hardmetals with Fe-based binder [Electronic resource]
Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Suurkivi, Taavi; Pirso, Jüri World PM2016 proceedings 2016 / [6] p. : ill.
[USB]

Strong and chemically inert sinter crystallised glass ceramics based on Estonian oil shale ash
Maragoni, Mauro; Ponsot, I.; Kuusik, Rein, keemik; Bernardo, E. Advances in applied ceramics 2014 / p. 120-128 : ill
<https://doi.org/10.1179/1743676113Y.0000000132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Structure formation and distribution of elements in the TiC-NiMo cemented carbides
Viljus, Mart; Pirso, Jüri Powder Technology 95 : Vth Baltic Conference, November 7-8, 1995, Tallinn 1995 / I. 24-25
https://www.ester.ee/record=b1492085*est

Structure formation in Ti-C-Ni-Mo composites during reactive sintering
Viljus, Mart; Pirso, Jüri; Juhani, Kristjan; Letunovits, Sergei Materials science = Medžiagotyra 2012 / p. 62-65 : ill

Structure formation of Cr₃C₂ - base cermets during sintering
Pirso, Jüri; Viljus, Mart Proceedings of 2000 Powder Metallurgy World Congress : November 12-16, 2000, Kyoto, Japan. Part 2
2000 / p. 1265-1268 : ill

Superconductivity and magnetic studies of bulk Y₁₂₃/BaCuO₂ composite
Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Georgieva, S.; Mikli, Valdek Romanian journal of physics 2018 / art. 602, 15 p. : ill
http://www.nipne.ro/rip/2018_63_1-2/RomJPhys.63.602.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Superhard B₄C-ReB₂ composite by SPS of microwave synthesized nanopowders
Mnatsakanyan, R.; Davtyan, D.; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina Materials letters 2021 / art. 129163, 5 p.
: ill <https://doi.org/10.1016/j.matlet.2020.129163> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ZrC based ceramics by high pressure high temperature SPS technique
Aydinyan, Sofiya; Minasyan, Tatevik; Liu, Le; Cygan, Slawomir; 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.
125-130 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.125>
<https://doi.org/10.4028/www.scientific.net/KEM.799.125> [Conference proceeding at Scopus](#) [Article at Scopus](#)

ZrC-TiC-MoSi₂ ceramic composite by spark plasma sintering
Hussainova, Irina; Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya Journal of Physics: Conference Series 2020 / art. 012028

Technological peculiarities of chromium carbide-based iron alloy bonded cermet

Kolnes, Märt; Kübarsepp, Jakob; Viljus, Mart; Traksmaa, Rainer Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 82-86 : ill
<https://doi.org/10.4028/www.scientific.net/SSP.267.82> Conference proceedings at Scopus Article at Scopus

The effect of nano-TiC addition on sintered Nd-Fe-B permanent magnets

Mural, Zorjana; Kollo, Lauri; Xia, Manlong; Veinthal, Renno Journal of magnetism and magnetic materials 2017 / p. 23-28 : ill
<https://doi.org/10.1016/j.jmmm.2016.12.115> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

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

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

The impact resistance of highly densified metal alloys manufactured from gas-atomized pre-alloyed powders

Rahmani Ahranjani, Ramin; Antonov, Maksim; Prashanth, Konda Gokuldoss Coatings 2021 / art. 216, 14 p. : ill
<https://doi.org/10.3390/coatings11020216> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

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

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

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

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

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

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

The influence of reactive sintering parameters on the structure and properties of Cr₃C₂-Ni cermets

Viljus, Mart; Letunoviš, Sergei; Traksmaa, Rainer; Pirso, Jüri Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 15

The influence of reactive sintering parameters on the structure and properties of Cr₃C₂-Ni cermets

Viljus, Mart; Letunoviš, Sergei; Traksmaa, Rainer; Pirso, Jüri Medžiagotyra = Materials science 2002 / 4, p. 473-476 : ill

The influence of Sinter/HIP sintering on the properties of chromium carbide based cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart Proceedings of European Powder Metallurgy Congress : EURO PM2007 : Toulouse (France), 15-17 October 2007. Vol. 1 2007 / p. 209-213

The influence of sinter/HIP technology on reactive sintering of chromium carbide based cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunoviš, Sergei 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 23

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

Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart Medžiagotyra = Materials science 2015 / p. 435-438 : ill
<http://dx.doi.org/10.5755/j01.ms.21.3.7179>

The influence of temperature and gas composition on the sintering of Estonian oil shale ash

Parve, Teet; Skrifvars, Bengt-Johan; Ots, Arvo; Hupa, Mikko 1994

The preparation of TiC/TiN composites by selective laser melting

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 165-170 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.165> <https://doi.org/10.4028/www.scientific.net/KEM.799.165>
[Conference proceeding at Scopus](#) [Article at Scopus](#)

The science of sinter-HIP : when to turn on the gas

Yung, Der-Liang; Tarraste, Marek; Hussainova, Irina TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

The sintering of Estonian oil shale ashes

Parve, Teet; Ots, Arvo; Skrifvars, Bengt-Johan; Hupa, Mikko Oil shale 1995 / 4, p. 341-356: ill

The structure formation of TiC-NiMo hardmetals during the sintering process

Viljus, Mart; Pirso, Jüri; Traksmäa, Rainer Proceedings of Joint Nordic Conference in Powder Technology : May 5-6, 1999, Oslo, Norway 1999 / p. 13

Ti-B based composites by spark plasma sintering and selective laser melting = Sädepaagutus- ja selektiivse lasersulatus-tehnoloogia abil valmistatud Ti-B baasil komposiitmaterjalid

Liu, Le 2021 https://www.ester.ee/record=b5460101*est <https://digikogu.taltech.ee/et/Item/2a4de866-52a3-4bef-8c4e-e136c89285a3>
<https://doi.org/10.23658/taltech.47/2021>

Toward high temperature tough ceramics

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

Transformation of phases in hydrothermal sintering processing of phosphate rock

Pöldme, Meeme International Symposium on Inorganic Phosphate Materials '91, Hachioji City, Tokyo, Japan, July 24-26, 1991 : extended abstracts 1991 / p. 62

Tribological properties of selective laser melted Al12Si alloy

Rathod, H.J.; Nagaraju, T.; **Prashanth, Konda Gokuldoss;** Ramamurty, U. Tribology international 2019 / p. 94-101 : ill <https://doi.org/10.1016/j.triboint.2019.04.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tungsten matrix composite reinforced with CoCrFeMnNi high-entropy alloy : impact of processing routes on microstructure and mechanical properties

Satyanarayana, P. V.; Sokkalingam, Rathinavelu; Jena, P. K.; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Metals 2019 / art. 992, 12 p. : ill <https://doi.org/10.3390/met9090992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ultra high-pressure spark plasma sintered ZrC-Mo and ZrC-TiC composites

Yung, Der-Liang; Cygan, Slawomir; **Antonov, Maksim;** Jaworska, Lucyna; **Hussainova, Irina** International journal of refractory metals and hard materials 2016 / p. 201-206 : ill <https://doi.org/10.1016/j.ijrmhm.2016.09.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ultrahigh pressure spark plasma sintering of ZrC-TiC-MoSi2 and ZrC-TiC-Si3N4 composites [Online resource]

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

Use of selective laser melting for manufacturing the porous stack of a thermoacoustic engine

Auriemma, Fabio; Holovenko, Yaroslav 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. 246-251 : ill <https://www.scientific.net/KEM.799.246> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.246>
[Conference proceeding at Scopus](#) [Article at Scopus](#)

Using functional requirements to determine optimal additive manufacturing technology

Sonk, Kaimo; Hermaste, Aigar; Sarkans, Martinš; Paavel, Marko Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 79-84 : ill <http://innomet.ttu.ee/daaam/>

Wear behavior of Co-free hardmetals doped by zirconia and produced by conventional PM and SPS routines

Hussainova, Irina; Antonov, Maksim; Voltšihhin, Nikolai; Kübarsepp, Jakob Wear 2014 / p. 83-90 : ill <https://doi.org/10.1016/j.wear.2014.01.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Vibration-assisted sputter coating of cenospheres : a new approach for realizing Cu-based metal matrix syntactic foams
Shishkin, Andrei; Drozdova, Maria; Kozlov, Viktor; Hussainova, Irina; Lehmhus, Dirk Metals 2017 / art. 16, p. 1-10 : ill
<https://doi.org/10.3390/met7010016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

YSZ-rGO composite ceramics by spark plasma sintering : the relation between thermal evolution of conductivity, microstructure and phase stability

Glukharev, Artem; Glumov, Oleg; Temnikova, Maria; Saffarshamshirgar, Ali; Hussainova, Irina; Konakov, Vladimir Electrochimica acta 2021 / art. 137533 <https://doi.org/10.1016/j.electacta.2020.137533> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

γ and α -(Fe, Ni) phase characterization using image processing and effect of phase formation on the P/M Fe(100-x)Ni(x) alloys properties

Singh, Neera; Pandey, Vaibhav; Srivastava, Gargi; Banerjee, Supriya; Parkash, Om; Kumar, Devendra Materials chemistry and physics 2020 / art. 122794 <https://doi.org/10.1016/j.matchemphys.2020.122794> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Влияние защитной среды при спекании на свойства металлокерамических материалов на основе железа

Vallikivi, Ahto; Pugina, L.; Mosberg, Rudolf Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1972 / с. 76-81 : ил https://www.ester.ee/record=b1645489*est

Влияние реальных условий спекания на структуру и некоторые свойства железного графита

Vallikivi, Ahto; Pugina, L.; Mosberg, Rudolf Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1971 / с. 39-43 https://www.ester.ee/record=b1645489*est

Гидроабразивное изнашивание спеченных твердых сплавов на основе карбидов титана и хрома : автореферат ... кандидата технических наук (05.02.04)

Kallas, Paul 1978 http://www.ester.ee/record=b1315626*est

Износостойкость спеченных сплавов на основе карбида хрома в абразивной струе

Valdma, Leo; Pirso, Jüri Спеченные износостойкие материалы 1977 / с. 64-70 https://www.ester.ee/record=b2692826*est

Использование метода спекания под высоким давлением для получения новых материалов из Cr₃C₂

Пугач Э.А.; Кораблев С.Ф.; Лысенко А.В.; Филипенко С.И. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 20-21

Исследование абразивной эрозии спеченных вольфрамовых твердых сплавов

Kleis, Ilmar; Tumanov, V.; Uuemõis, Haljand; Tiidemann, Tiit Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1974 / с. 98-101 : илл https://www.ester.ee/record=b1645489*est

Исследование спекания карбидосталей различных составов

Левинский Ю.В.; Петров А.П.; Мокина В.А. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 13-14

О влиянии метода получения TiB₂ на структуру и свойства керметов в системе TiB₂-Fe(Mo)

Монахов О.В.; Орданьян С.С.; Дроздецкая Г.В. Износостойкие порошковые материалы и покрытия : тезисы докладов второй конференции Балтийских республик 1991 / с. 17-20

О влиянии режимов спекания на износостойкость твердого сплава BK15M в абразивной струе

Pirso, Jüri; Mosberg, Rudolf; Valdma, Leo Расширенные тезисы докладов VI республиканского семинара по порошковой металлургии 1970 / с. 52-56 : табл https://www.ester.ee/record=b1372156*est

О влиянии среды спекания на антифрикционные свойства металлокерамических материалов на основе железа

Vallikivi, Ahto; Siimar, Rein; Mosberg, Rudolf Расширенные тезисы докладов VI республиканского семинара по порошковой металлургии 1970 / с. 65-68 : табл https://www.ester.ee/record=b1372156*est

О влиянии среды спекания на состав и некоторые свойства металлокерамических материалов на основе железа

Vallikivi, Ahto; Mosberg, Rudolf Расширенные тезисы докладов VI республиканского семинара по порошковой металлургии 1970 / с. 61-64 : табл https://www.ester.ee/record=b1372156*est

О влиянии среды спекания на состав и свойства металлокерамических материалов на основе железа

Vallikivi, Ahto; Mosberg, Rudolf Тезисы докладов республиканского семинара по порошковой металлургии 1969 / с. 32-35 : табл https://www.ester.ee/record=b1339858*est

Основы разработки и применение абразивно-износостойких спеченных безвольфрамовых сплавов

Valdma, Leo Порошковая металлургия и область ее применения. Тезисы докладов к областному семинару (11-12 мая 1982 г.) 1982 / с. 28

Разработка эрозионностойких конструктивных элементов из безкольфамовых спеченных сплавов
Valdma, Leo; Pirso, Jüri; Kudrjajtsev, Vladimir; Kozjakov, Vladimir Тезисы докладов III Всесоюзного семинара по
конструкционным спеченым материалам и изделиям (8-10 апр. 1975 г.) 1975 / с. 49-50

Усовершенствованный муфель для спекания металлокерамических изделий
Bussel, Oleg; Kulu, Priit Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1970 / с.
103-104 : ил https://www.ester.ee/record=b1645489*est