

Abrasion and erosion resistance of cermets : a review

Kübarsepp, Jakob; Juhani, Kristjan; Tarraste, Marek Materials 2022 / art. 69 <https://doi.org/10.3390/ma15010069> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Abrasive impact wear of WC-Co and TiC-NiMo cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunovits, Sergei; Tarraste, Marek Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 621-626 : ill https://www.researchgate.net/publication/286139638_Abrasive_impact_wear_of_WC-Co_and_TiC-NiMo_cermets

AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines

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Kolnes, Märt; Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Viljus, Mart IOP conference series : materials science and engineering 2021 / art. 012043 <https://doi.org/10.1088/1757-899X/1140/1/012043>

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Effect of pulsed deuterium plasma irradiation on dual-phase tungsten high-entropy alloys

Tökke, Siim; Laas, Tõnu; Priimets, Jaanis; Tarraste, Marek; Mikli, Valdek; Antonov, Maksim Fusion engineering and design 2022 / 11 p. : ill <https://doi.org/10.1016/j.fusengdes.2022.113260> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of pulsed deuterium plasma irradiation on dual-phase tungsten medium-entropy alloys

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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](#)

Effect of the laser processing parameters on the selective laser melting of TiC-Fe-based cermets

Maurya, Himanshu Singh; Kollo, Lauri; Tarraste, Marek; Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss Journal of manufacturing and materials processing 2022 / art. 35, 11 p. : ill <https://doi.org/10.3390/jmmp6020035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Erosive and impact-abrasive wear of hardmetals with Fe-based binders

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Ferritic chromium steel as binder metal for WC cemented carbides

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

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Influence of strong carbide-forming elements (Nb and Ta) on the development of the green (Ti, Me)(C,N)-high chromium Fe-based cermets

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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 of TiC cermets with ferritic AISI 430L steel binder

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

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

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Optimization of hardmetal reinforcement content in Fe-based hardfacings for abrasive-impact wear conditions

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

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Performance of ceramic-metal composites as potential tool materials for friction stir welding of aluminium, copper and stainless steel

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Selective laser melting of TiC-based cermet : HIP studies

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

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Sintering of high Mn cemented carbides in Mn-rich environment

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Sliding Wear and Debris Evolution in LPBFed Ceramic-Reinforced Steel Composites Under Variable Loads and Temperatures

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Spark plasma sintering of molybdenum silicides synthesized from oxide precursors

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Spark plasma sintering of WC hardmetals with Fe-based binder [Electronic resource]

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

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TalTechi teadur arutleb: millal käib “suur pauk”, mis kiirendab tööstuses alternatiivsete materjalide kasutamist?

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

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The effect of spark plasma sintering thermal cycle on behaviour of Fe-based hardfacings reinforced with WC and WC-based hardmetal

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

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

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

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

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Three-body abrasive wear of reactive sintered WC-Co hardmetals with grain growth inhibitors

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Three-body abrasive wear of WC-Co composites manufactured by reactive sintering of nanocrystalline powders [Electronic resource]

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Ultrafine cemented carbides with cobalt and iron binders prepared via reactive in situ sintering

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Wear behavior of ceramic-metal composites as tool material for FSW of copper

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Wear resistance of sintered composite hardfacings under different abrasive wear conditions

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