

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](#)

Additive manufacturing : alloy design and process innovations

Prashanth, Konda Gokuldoss; Wang, Zhi Materials 2020 / art. 542, 2 p <https://doi.org/10.3390/ma13030542> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aluminate-based nanostructured luminescent materials : design of processing and functional properties

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Fernandez, Jose Francisco; **Hussainova, Irina** Materials 2021 / art. 4591 <https://doi.org/10.3390/ma14164591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Annealing of Al-Zn-Mg-Cu alloy at high pressures : evolution of microstructure and the corrosion behavior

Suo, Chuanjun; Ma, Pan; Jia, Yandong; Liu, Xiao; Shi, Xuerong; Yu, Zhishui; **Prashanth, Konda Gokuldoss** Materials 2021 / art. 2076, 17 p. : ill <https://doi.org/10.3390/ma14082076> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bioactive ceramic scaffolds for bone tissue engineering by powder bed selective laser processing : a review

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Biomechanical Features of Graphene-Augmented Inorganic Nanofibrous Scaffolds and Their Physical Interaction with Viruse

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Characterization of organosolv lignins and their application in the preparation of aerogels

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Combustion synthesis and reactive spark plasma sintering of non-equiatomic coal-based high entropy intermetallics

Kuskov, Kirill Vasilevich; Nepapushev, Andrey A.; **Aydinyan, Sofiya;** Shaysultanov, Dmitry G.; Stepanov, Nikita D.; Nazaretyan, Khachik; Kharatyan, Suren; Zakharova, Elena V.; Belov, Dmitry S.; Moskovskikh, Dmitry O. Materials 2023 / art. 1490 <https://doi.org/10.3390/ma16041490> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cubic iron core-shell nanoparticles functionalized to obtain high-performance MRI contrast agents

Volokhova, Maria; Shugai, Anna; Tsujimoto, Masahiko; Kubo, Anna-Liisa; Telliskivi, Sven; Nigul, Mait; Uudeküll, Peep; Vija, Heiki; Bondarenko, Olesja; Adamson, Jasper; Kahru, Anne; Stern, Raivo; Seinberg, Liis Materials 2022 / art. 2228 <https://doi.org/10.3390/ma15062228> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design of High Volume CFBC Fly Ash Based Calcium Sulphoaluminate Type Binder in Mixtures with Ordinary Portland Cement

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Effect of fly-ash cenospheres on properties of clay-ceramic syntactic foams

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Effect of hemp fiber surface treatment on the moisture/water resistance and reaction to fire of reinforced PLA composites

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Effect of interlayer delay on the microstructure and mechanical properties of wire arc additive manufactured wall structures

Singh, Shalini; Jinoop, Arackal Narayanan; Tarun Kumar, Gorlea Thrinadh Ananthvenkata; Palani, Iyamperumal Anand; Paul, Christopher R. C.; **Prashanth, Konda Gokuldoss** Materials 2021 / art. 4187, 13 p. : ill <https://doi.org/10.3390/ma14154187> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of prestressing and temperature on tensile strength of basalt fiber-reinforced plywood

Lõhmus, Rünno; **Kallakas, Heikko; Tuhkanen, Eero;** Gulik, Volodymyr; Kiisk, Madis; Saal, Kristjan; **Kalamees, Targo** Materials 2021 / art. 4701, 9 p. : ill <https://doi.org/10.3390/ma14164701> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of substrate plate heating on the microstructure and properties of selective laser melted Al-20Si-5Fe-3Cu-1Mg alloy

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Electroless Ni-P-MoS₂-Al₂O₃ composite coating with hard and self-lubricating properties

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Evolution of microstructure and mechanical properties of LM25–HEA composite processed through stir casting with a bottom pouring system

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Fiber laser welded cobalt super alloy L605 : optimization of weldability characteristics

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Fiber-reinforced plywood: Increased performance with less raw material

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Growth and characterization of Cu₂Zn_{1-x}Fe_xSn₄ thin films for photovoltaic applications

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High-temperature wear performance of hBN-added Ni-W composites produced from combustion-synthesized powders

Kumar, Rahul, 1993-; **Aydinyan, Sofiya**; **Ivanov, Roman**; **Liu, Le**; **Antonov, Maksim**; **Hussainova, Irina** Materials 2022 / art. 1252 <https://doi.org/10.3390/ma15031252> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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In situ Mo(Si,Al)₂-based composite through selective laser melting of a MoSi₂-30 wt.% AlSi₁₀Mg mixture

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Influence of post-UV/ozone treatment of ultrasonic-sprayed zirconium oxide dielectric films for a low-temperature oxide thin film transistor

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Influence of powder characteristics on processability of AlSi₁₂ alloy fabricated by selective laser melting

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The investigation of the production of salt-added polyethylene oxide/chitosan nanofibers

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Iron, cobalt, and nickel phthalocyanines tri-doped electrospun carbon nanofibre-based catalyst for rechargeable zinc-air battery air electrode

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Laser powder-bed fusion of ceramic particulate reinforced aluminum alloys: a review

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Metallic coatings through additive manufacturing: a review

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Microstructure and mechanical properties of Al-(12-20)Si bi-material fabricated by selective laser melting

Zhang, Shikai; Ma, Pan; Jia, Yandong; Yu, Zhishui; Sokkalingam, Rathinavelu; Shi, Xuerong; Ji, Pengcheng; Eckert, Jürgen; Prashanth, Konda Gokuldoss Materials 2019 / art. 2126, 11 p. : ill <https://doi.org/10.3390/ma12132126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NiTi-Cu bimetallic structure fabrication through wire arc additive manufacturing

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Novel pathway for the combustion synthesis and consolidation of boron carbide

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Parametric study on in situ Laser powder bed fusion of Mo(Si1-x,Alx)2

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PCL/Si-doped multi-phase calcium phosphate scaffolds derived from cuttlefish bone

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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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A predictive approach towards using PC-SAFT for modeling the properties of shale oil

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Rheological properties of MWCNT-doped titanium-oxo-alkoxide gel materials for fiber drawing

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Rheology, strength, and durability of concrete and mortar made of recycled calcium silicate masonry

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Selective laser melting of aluminum and its alloys

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SHS-derived powders by reactions' coupling as primary products for subsequent consolidation

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Sliding wear performance of AlCrN coating on TiB2/Ti composites at high temperatures

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Solid lubrication at high-temperatures - a review

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Superior wear resistance in EBM-Processed TC4 alloy compared with SLM and forged samples

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Synthesis of zwitterionic dopamine sulfonate coated cubic core α -Fe@SiO₂ nanoparticles and their magnetic properties analysis

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Thermal transport and thermoelectric effect in composites of alumina and graphene-augmented alumina nanofibers

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Thermal, mechanical, and acoustic properties of polydimethylsiloxane filled with hollow glass microspheres

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Toxicity of nine (doped) rare Earth metal oxides and respective individual metals to aquatic microorganisms *Vibrio fischeri* and *Tetrahymena thermophila*

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Young's modulus of different illitic clays during heating and cooling stage of firing

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