

#### **Additively manufactured mesostructured MoSi<sub>2</sub>-Si<sub>3</sub>N<sub>4</sub> ceramic lattice**

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#### **Advanced, universal, and facile gel spinning-based aerogel fibrillation : in situ fabrication of highly stretchable TPU-silica hybrid network in ambient conditions**

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**Microstructure and mechanical performances of NiCoFeAlTi high-entropy intermetallic reinforced CoCrFeMnNi high-entropy alloy composites manufactured by selective laser melting**

Yang, Hong; Ma, Pan; Zhang, Zhiyu; Xie, Xiaochang; Yang, Ping; Zhang, Han; Jia, Yandong; **Prashanth, Konda Gokuldoss** Journal

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**Microstructure and mechanical properties of AlCoCrFeMnNi HEAs fabricated by selective laser melting**

Ma, Pan; Fang, Yacheng; Wei, Shuimiao; Zhang, Zhiyu; Yang, Hong; Wan, Shiguang; **Prashanth, Konda Gokuldoss;** Jia, Yandong

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**Microstructure and physical-mechanical properties evolution of pure tantalum processed with hard cyclic viscoplastic deformation**

**Kommel, Lembit; Omranpour Shahreza, Babak; Mikli, Valdek** International journal of refractory metals and hard materials 2019 /

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**Microstructure and tribological behavior of Al-12Si – Nano graphene composite fabricated by laser metal deposition process**

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**Microstructure evolution of TiC cermets with ferritic AISI 430L steel binder**

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**Microstructure, wear and corrosion characteristics of Cu matrix reinforced SiC-graphite hybrid composites**

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**Microwave synthesis of B4C nanopowder for subsequent spark plasma sintering**

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**A multifunctional strontium/silver-co-substituted hydroxyapatite derived from biogenic source as antibacterial biomaterial**

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**Multi-type dislocation substructure evolution in a high-strength and ductile duplex high-entropy nanocomposites**

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**Nanostructure development in refractory metals : ECAP processing of Niobium and Tantalum using indirect-extrusion technique**

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**New higher order Haar wavelet method : application to FGM structures**

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**A novel approach to fabricate Si3N4 by selective laser melting**

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**Role of A-site (Sr), B-site (Y), and A, B sites (Sr, Y) substitution in lead-free BaTiO<sub>3</sub> ceramic compounds : structural, optical, microstructure, mechanical, and thermal conductivity properties**

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**Selective laser melting of AlCoCrFeMnNi high entropy alloy : effect of heat treatment**

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**Simple access to  $\beta$ -trifluoromethyl-substituted ketones via copper-catalyzed ring-opening trifluoromethylation of substituted cyclopropanols**

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**Solution combustion synthesis of MnFeCoNiCu and (MnFeCoNiCu)<sub>3</sub>O<sub>4</sub> high entropy materials and sintering thereof**

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**Spark plasma sintering of molybdenum silicides synthesized from oxide precursors**

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## **Static response and buckling loads of multilayered composite beams using the refined Zigzag theory and Higher-Order Haar Wavelet method**

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## **Structure, phase composition, and wear mechanisms of plasma-sprayed NiCrSiB-20wt.% TiB<sub>2</sub> coatings**

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**Ustrnul, Lukas; Kaabel, Sandra**; Burankova, Tatsiana; **Martõnova, Jevgenija; Konrad, Nele; Borovkov, Victor; Aav, Riina**

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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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## **Synthesis of Ni@SiO<sub>2</sub> and Co@SiO<sub>2</sub> nanomagnets after formation of NiO and Co<sub>2</sub>O<sub>3</sub> nanoparticles at low temperatures using CaH<sub>2</sub>**

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## **ZrC+TiC synergically reinforced metal matrix composites with micro/nanoscale reinforcements prepared by laser powder bed fusion**

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## **Template-controlled synthesis of chiral cyclohexylhemicucurbit[8]uril**

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**Thermomechanical surface instability at the origin of surface fissure patterns on heated circular MDF samples**

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

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**Up-conversion enhancement in Er<sup>3+</sup> / Yb<sup>3+</sup> doped 1-D microcavity based on alternating aluminosilicate glass and titania sol-gel layers**

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**Wear behaviour and wear mechanisms of different hardmetal grades in comparison with polycrystalline diamond in a new impact-abrasion test**

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**Wear behaviour of Cr<sub>3</sub>C<sub>2</sub>-Ni cermet reinforced hardfacings**

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