

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

**Minasyan, Tatevik; Liu, Le; Holovenko, Yaroslav; Aydinyan, Sofiya; Hussainova, Irina** Ceramics international 2019 / p. 9926-9933 <https://doi.org/10.1016/j.ceramint.2019.02.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Omranpour, Hosseinali; Hassanifard, Soran; Monfared, Ali Reza; Omranpour Shahreza, Babak; Salehi, Amirmehdi; Jalali, Amirjalal; Kheradmandkeymoussi, Mohamad; Rahman, Saadman Sakib; Behdinin, Kamran; Park, Chul B.** Advanced composites and hybrid materials 2024 / art. 105 <https://doi.org/10.1007/s42114-024-00911-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **An orthotropic material model for steel fibre reinforced concrete based on the orientation distribution of fibres**

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#### **Assessment of 3D printed steels and composites intended for wear applications in abrasive, dry or slurry erosive conditions**

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#### **Asymmetric cyclopropanation via an electro-organocatalytic cascade**

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#### **Boosting phosphorescence efficiency by crystal anisotropy in SrAl<sub>2</sub>O<sub>4</sub>:Eu,Dy textured ceramic layers**

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#### **Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB<sub>2</sub> fabricated by selective laser melting and hot pressing**

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**Enhancing the tensile properties of laser repairing Ti-6Al-4V alloys: Optimization of strain distribution based on composition fine-tuning**

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**Faster magic angle spinning reveals cellulose conformations in woods**

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

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

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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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**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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## **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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## **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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## **The effect of microstructure evolution on the wear behavior of tantalum processed by Indirect Extrusion Angular Pressing**

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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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