

### **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; Kheradmandkeymouzi, 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](#)

### **Calculation method for optimization of barge hull**

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### **Carbon xerogel from 5-methylresorcinol-formaldehyde gel : the controllability of structural properties**

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### **Circumventing Solidification Cracking Susceptibility in Al-Cu Alloys Prepared by Laser Powder Bed Fusion**

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### **Combinative solution processing and Li doping approach to develop p-type NiO thin films with enhanced electrical properties**

**Oluwabi, Abayomi Titilope; Spalatu, Nicolae**; Maticiu, Natalia; **Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** Frontiers in materials 2023 / 12 p. : ill <https://doi.org/10.3389/fmats.2023.1060420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Crack formation and control in an AlCoCrFeNi high entropy alloy fabricated by selective laser melting**

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### **Editorial : Fundamentals and challenges of advanced amorphous and high-entropy alloys**

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### **Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene-acrylonitrile copolymer and carbon nanotube composite fibres**

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### **Electroconductive fibrous mat prepared by electrospinning of polyacrylamide-g-polyaniline copolymers as electrode material for supercapacitors**

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### **Experimental mechanics analysis of recycled polypropylene-cotton composites for commercial applications**

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### **Mechanical properties, microstructure, and actuation behavior of wire arc additive manufactured nitinol : titanium bimetallic structures**

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### **Mo-Cu pseudoalloys by combustion synthesis and spark plasma sintering**

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#### **On the effects of different regimes of plasma pulses affecting the material due to their succession**

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#### **Preparation and characterization of SbSeI thin films**

**Dolcet Sadurni, Marc**; **Timmo, Kristi**; **Mikli, Valdek**; **Volobujeva, Olga**; **Mengü, Idil**; **Krustok, Jüri**; **Grossberg-Kuusk, Maarja**; **Kauk-Kuusik, Marit** Journal of science: Advanced materials and devices 2024 / art. 100664 <https://doi.org/10.1016/j.jsamd.2023.100664> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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#### **Radiative recombination model for BiSeI microcrystals : unveiling deep defects through photoluminescence**

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#### **Recent advances in additive manufacturing of refractory high entropy alloys (RHEAs): A critical review**

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#### **Reduced recombination through the CZTS/CdS interface engineering in monograin layer solar cells**

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#### **The role of paradigms and technical strategies for implementation of the circular economy in the polymer and composite recycling industries**

**Hussain, Abrar**; **Podgurski, Vitali**; **Viljus, Mart**; Awan, Muhammad Rizwan Advanced Industrial and Engineering Polymer Research 2023 / p. 1-12 <https://doi.org/10.1016/j.aiepr.2022.10.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Selective laser melting of commercially pure molybdenum by laser rescanning**

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

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**Value for money : a cost-effectiveness analysis of microplastic analytics in seawater**

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**Wire arc additive manufacturing of NiTi 4D structures : influence of interlayer delay**

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