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Review: Overcoming the paradox of strength and ductility in ultrafine-grained materials at low temperatures

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Review: achieving superplastic properties in ultrafine-grained materials at high temperatures

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A review of phase equilibria in Heusler alloy systems containing Fe, Co or Ni

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A review of hydrogel-based composites for biomedical applications: enhancement of hydrogel properties by addition of rigid inorganic fillers

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Review: grain boundary faceting–roughening phenomena

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The role of reactivity in wetting by liquid metals: a review

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A review of exfoliated graphite

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CVD growth of 1D and 2D sp^2 carbon nanomaterials

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Viewpoint: metallurgical aspects of powder bed metal additive manufacturing

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Review of the synergies between computational modeling and experimental characterization of materials across length scales

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Recent progress of synthesis and applications in polyoxometalate and nanogold hybrid materials

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Review on slip transmission criteria in experiments and crystal plasticity models

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Environmentally friendly preparation of nanoparticle-decorated carbon nanotube or graphene hybrid structures and their potential applications

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A perspective on molybdenum biocompatibility and antimicrobial activity for applications in implants

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Hybrid adsorbent nonwoven structures: a review of current technologies

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Wet chemical synthesis of rare earth-doped barium titanate nanoparticles

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A review of carbon dots in biological applications

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Sol–gel-processed hybrid silica-PDMS layers for the optics of high-power laser flux systems

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Recent approaches and future prospects of bacterial cellulose-based electroconductive materials

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Graphene oxides for removal of heavy and precious metals from wastewater

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High-performance fiber-reinforced concrete: a review

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Structural characteristics and spectral response of composite transition metal oxide photocatalytic materials

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Artificial multiferroic structures based on barium-strontium titanate

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Biodegradable biopolymer–graphene nanocomposites

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Recent progress in 2D or 3D N-doped graphene synthesis and the characterizations, properties, and modulations of N species

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Morphing in nature and beyond: a review of natural and synthetic shape-changing materials and mechanisms