

Additively manufactured mesostructured MoSi₂-Si₃N₄ 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](#)

AlCo-rich AlCoNiFe and AlCoNiFeCr high entropy alloys: Synthesis and interaction pathway at high heating rates

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Bio-inspired TiB₂-TiB-TiN lattices by selective laser melting

Liu, Le; Minasyan, Tatevik; Kamboj, Nikhil; Aydinyan, Sofiya; Hussainova, Irina Materials Letters 2020 / art. 128337
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Combustion synthesis and consolidation of Ni-W nanocomposite material

Zakaryan, Marieta; Aydinyan, Sofiya; Kharatyan, Suren Ceramics in modern technologies 2019 / p. 67-74
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Combustion synthesis and reactive spark plasma sintering of non-equiatomic coal-based high entropy intermetallics

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Combustion synthesis of MoSi₂ based composite and selective laser sintering thereof

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Combustion synthesis of nanoscale boron and silicon carbides

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Combustion synthesis of silicon carbide by magnesio-carbothermic reduction of amorphous and crystalline silica

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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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The interaction pathway in the mechano-ultrasonically assisted and carbon-nanotubes augmented nickel-aluminum system

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Joint reduction of NiO/WO₃ pair and NiWO₄ by Mg + C combined reducer at high heating rates

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Lattice of MoSi₂/Si₃N₄ by selective laser melting

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Mesoporous fibrous silicon nitride by catalytic nitridation of silicon

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Mesoporous fibrous silicon nitride by catalytic nitridation of silicon and selective laser melting

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Nanosize molybdenum carbide preparation by sol-gel combustion synthesis with subsequent fast heating

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A new synthesis pathway for molybdenum carbide nanopowder by solution combustion

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NiO reduction by Mg plus C combined reducer at high heating rates

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Novel approach for the preparation of shapes from TiB₂-Si₃N₄ composite by selective laser melting

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Novel pathway for the combustion synthesis and consolidation of boron carbide

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Reduction mechanism of WO₃ + CuO mixture by combined Mg/C reducer : non-isothermal conditions - high heating rates

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Selective laser melting of ceramic composites

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Selective Laser Melting Of Combustion Synthesized 2Mo-Cu and 3Cu-Mo Composites

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Selective laser melting of Ti/cBN composite

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Selective laser melting of TiB₂-Ti composite with high content of ceramic phase

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Selective laser melting of Ti-B-Si system produced by SHS [Online resource]

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Selective laser sintering of combustion synthesized titanium diboride based composites

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Self-Propagating High-Temperature Synthesis of Silicon Carbide Using Reactions Thermokinetic Coupling Approach

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SHS produced TiB₂-Si powders for selective laser melting of ceramic-based composite

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

Aydinyan, Sofiya; Kharatyan, Suren; Hussainova, Irina Materials 2021 / art. 5117 <https://doi.org/10.3390/ma14175117> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

SHS-derived powders obtained by coupled reactions and thermal dilution for subsequent consolidation

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Sintering behavior of ZrC-TiC-MoSi₂ ceramic composite [Online resource]

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Sintering of silicon carbide obtained by combustion synthesis

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Solution combustion synthesis and spark plasma sintering of magnetic high entropy materials

Kirakosyan, Hasmik; Sargsyan, Armen; **Aydinyan, Sofiya;** Kharatyan, Suren CIMTEC 2022 : 15th International Ceramics Congress (June 20-24) CIMTEC 2022 : 9th Forum on New Materials (June 25-29) 2022 http://2022.cimtec-congress.org/focused-session-ca-11_1

Solution combustion synthesis of MnFeCoNiCu and (MnFeCoNiCu)₃O₄ high entropy materials and sintering thereof

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Solution combustion synthesis of nanostructured molybdenum carbide

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Spark plasma sintering of combustion synthesized TiB₂-Si composite

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Study of reduction mechanism of WO₃+CuO mixture by combined Mg/C reducer - influence of high heating rate

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Superhard B₄C-ReB₂ composite by SPS of microwave synthesized nanopowders

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Synthesis and consolidation of Mo-Cu composite nanopowder [Online resource]

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Synthesis of Ni-W nanopowders from oxide and salt precursors in combustion mode by using thermo-kinetic coupling approach [Online resource]

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