

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

Nazaretyan, K.; Aydinyan, Sofiya; Kirakosyan, H.; Moskovskikh, D.; Nepapushev, A.; Kuskov, K.; Tumanyan, M.; Zargaryan, A.; Traksmay, Rainer; Kharatyan, S. Journal of alloys and compounds 2023 / art. 167589, 13 p <https://doi.org/10.1016/j.jallcom.2022.167589>

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 <https://doi.org/10.1016/j.matlet.2020.128337> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combustion synthesis and consolidation of Ni-W nanocomposite material

Zakaryan, Marieta; Aydinyan, Sofiya; Kharatyan, Suren Ceramics in modern technologies 2019 / p. 67-74 <https://doi.org/10.29272/cmt.2018.0007>

Combustion synthesis and reactive spark plasma sintering of non-equiatomic coal-based high entropy intermetallics

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Combustion synthesis of MAX phases: Microstructure and properties inherited from the processing pathway

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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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DTATG study of NiO Reduction by Mg+C combined reducer

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Fabrication of Cu-Mo composites combining SHS and SLS technologies : poster presentation

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Fabrication of Cu-W nanocomposites by integration of self-propagating high-temperature synthesis and hot explosive consolidation technologies

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High pressure high temperature consolidation of ZrC based ceramic composites

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High-temperature wear performance of hBN-added Ni-W composites produced from combustion-synthesized powders

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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 influence of high-energy ball milling and nanoadditives on the kinetics of heterogeneous reaction in Ni-Al system

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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 oxides by combined Mg/C reducer. Synergetic effect

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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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The mechanism of joint reduction of MoO₃ and CuO by combined Mg/C reducer at high heating rates

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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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Microstructure and high temperature tribological behaviour of self-lubricating Ti-TiB_x composite doped with Ni-Bi

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Microwave synthesis of B₄C nanopowder for subsequent spark plasma sintering

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Mo(Si_{1-x}Al_x)₂-based composite by reactive laser powder-bed fusion

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

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Nanosized molybdenum carbide synthesized by solution combustion synthesis with subsequent thermal treatment

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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 approach for the synthesis and sintering of TiB₂-Si₃N₄ ceramic composite

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Selective laser melting of ceramic 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

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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

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

Aydinyan, Sofiya; Kirakosyan, Hasmik; Sargsyan, Armen; **Volobujeva, Olga**; Kharatyan, Suren Ceramics International 2022 / p. 20294-20305 : ill <https://doi.org/10.1016/j.ceramint.2022.03.310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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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

Mnatsakanyan, R.; Davtyan, D.; **Minasyan, Tatevik**; **Aydinyan, Sofiya**; **Hussainova, Irina** Materials letters 2021 / art. 129163, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.129163> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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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Synthesis of Ti₂AlC MAX phase and Ti₂C MXene by activated combustion

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