

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](#)

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 of MoSi₂ based composite and selective laser sintering thereof

Minasyan, Tatevik; Aghayan, Marina; Liu, Le; Aydinyan, Sofiya; Kollo, Lauri; Hussainova, Irina; Rodriguez, Miguel Angel Journal of the European Ceramic Society 2018 / p. 3814-3821 : ill <https://doi.org/10.1016/j.jeurceramsoc.2018.04.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Aydinyan, Sofiya; Minasyan, Tatevik; Kirakosyan, Hasmik; Aghayan, Marina; Hussainova, Irina; Kharatyan, Suren ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 48 <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

Functionally gradient Ti₆Al₄V-TiB composite produced by spark plasma sintering

Liu, Le; Ivanov, Roman; Kumar, Rahul, 1993-; Minasyan, Tatevik; Antonov, Maksim; Hussainova, Irina IOP conference series : materials science and engineering 2021 / art. 012004, 6 p.: ill <https://doi.org/10.1088/1757-899X/1140/1/012004>

High pressure high temperature consolidation of ZrC based ceramic composites

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Lei; Cygan, Slawomir; Hussainova, Irina [2018 World Congress on Powder Metallurgy (WORLDPM2018), Beijing, China, 16-18 September 2018 2018 / p. [515–518] : [USB]

In situ Mo(Si,Al)₂-based composite through selective laser melting of a MoSi₂-30 wt.% AlSi10Mg mixture

Minasyan, Tatevik; Aydinyan, Sofiya; Toyserkani, Ehsan; Hussainova, Irina Materials 2020 / art. 3720 ; 13 p <https://doi.org/10.3390/ma13173720> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Isothermal oxidation of SLM fabricated Mo(Si_{1-x}Al_x)₂-based composite

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Laser powder-bed fusion of ceramic particulate reinforced aluminum alloys: a review

Minasyan, Tatevik; Hussainova, Irina Materials 2022 / art. 2467 <https://doi.org/10.3390/ma15072467> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Laser powder-bed fusion of Mo(Si,Al)₂ – based composite for elevated temperature applications

Minasyan, Tatevik; Ivanov, Roman; Toyserkani, Ehsan; Hussainova, Irina Journal of alloys and compounds 2021 / art. 161034 <https://doi.org/10.1016/j.jallcom.2021.161034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lattice of MoSi₂/Si₃N₄ by selective laser melting

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Kollo, Lauri; Aghayan, Marina; Hussainova, Irina European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / art. 3993050 [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

Mesoporous fibrous silicon nitride by catalytic nitridation of silicon

Minasyan, Tatevik; Liu, Le; Aghayan, Marina; Rodriguez, Miguel Angel; Aydinyan, Sofiya; Hussainova, Irina Progress in natural science: materials international 2019 / p. 190-197 : ill <https://doi.org/10.1016/j.pnsc.2019.03.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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Mo-Cu pseudoalloys by combustion synthesis and spark plasma sintering

Minasyan, Tatevik; Kirakosyan, Hasmik; Aydinyan, Sofiya; Liu, Lei; Kharatyan, Suren; Hussainova, Irina Journal of materials science 2018 / p. 16598–16608 <https://doi.org/10.1007/s10853-018-2787-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mo(Si,Al)₂ by laser powder bed fusion of AlSi10Mg and combustion synthesized MoSi₂

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

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Volobujeva, Olga; Toyserkani, Ehsan; Hussainova, Irina Materials letters 2020 / art. 128776, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.128776> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

MoSi₂ based composites by selective laser melting

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MoSi₂ based composites preparation by combustion synthesis with subsequent selective laser sintering [Online resource]

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

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina Proceedings of the Euro PM 2018 Congress : Bilbao, Spain. 14–18 October 2018 2018 <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-am-special-materials>

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

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A novel approach to fabricate Si₃N₄ by selective laser melting

Minasyan, Tatevik; Liu, Le; Aghayan, Marina; Kollo, Lauri; Kamboj, Nikhil Kumar; Aydinyan, Sofiya; Hussainova, Irina Ceramics international 2018 / p. 13689-13694 : ill <https://doi.org/10.1016/j.ceramint.2018.04.208> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel route for the preparation of TiB₂/TiN composites by selective laser sintering [Online resource]

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmttk.ut.ee/teesid-2018/>

Parametric study on in situ Laser powder bed fusion of Mo(Si_{1-x}Al_x)₂

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Selective laser melting for manufacturing of MoSi₂/Si₃N₄ composites

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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

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Antonov, Maksim; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 257-262 : ill <https://www.scientific.net/KEM.799.257> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.257> [Conference proceeding at Scopus](#) [Article at Scopus](#)

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

Liu, Le; Minasyan, Tatevik; Ivanov, Roman; Aydinyan, Sofiya; Hussainova, Irina Ceramics international 2020 / p. 21128-21135 <https://doi.org/10.1016/j.ceramint.2020.05.189> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser sintering of combustion synthesized titanium diboride based composites

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / art. 3987459 [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

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

Liu, Le; Aydinyan, Sofiya; Minasyan, Tatevik; Hussainova, Irina Applied sciences 2020 / art. 3283, 12 p. : ill
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Sintering behavior of ZrC-TiC-MoSi₂ ceramic composite [Online resource]

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Cygan, Slawomir; Hussainova, Irina Explosive Production of New Materials : Science, Technology, Business, and Innovations 2018 / p. 148-150 : ill
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Spark plasma sintering of combustion synthesized TiB₂-Si composite

Liu, Le; Aydinyan, Sofiya; Minasyan, Tatevik; Baroninš, Janis; Antonov, Maksim; Kharatyan, Suren; Hussainova, Irina Ceramics in modern technologies 2019 / p. 59-66 <https://doi.org/10.29272/cmt.2018.0009>

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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ZrC based ceramics by high pressure high temperature SPS technique

Aydinyan, Sofiya; Minasyan, Tatevik; Liu, Le; Cygan, Slawomir; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 125-130 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.125>
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ZrC-TiC-MoSi₂ ceramic composite by spark plasma sintering

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<https://doi.org/10.1088/1742-6596/1527/1/012028> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The preparation of TiC/TiN composites by selective laser melting

Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 165-170 : ill
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Ultrahigh pressure spark plasma sintering of ZrC-TiC-MoSi₂ and ZrC-TiC-Si₃N₄ composites [Online resource]

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Cygan, Slawomir; Hussainova, Irina Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>