Combustion synthesis of MAX phases: microstructure and properties inherited from the processing pathway
Aydinyan, Sofiya Crystals 2023 / art. 1143 https://doi.org/10.3390/cryst13071143 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High-entropy (Ti0.4Ta0.4V0.4Nb0.4Cr0.4)AlC MAX phase synthesized byshs : structural, thermal, and mechanical insights
Melkonyan, S.; Zakaryan, Marieta; Grigoryan, Y.; **Hussainova, Irina**; **Aydinyan, Sofiya**; Kharatyan, Suren JTACC+V4 2025 : 4th Journal of Thermal Analysis and Calorimetry Conference &10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference : Book of Abstracts 2025 / p. 179 https://static.akcongress.com/downloads/jtacc/jtacc2025/jtacc2025-boa.pdf

High-temperature wear performance of hBN-added Ni-W composites produced from combustion-synthesized powders
Kumar, Rahul, 1993-; **Aydinyan, Sofiya**; **Ivanov, Roman**; **Liu, Le**; **Antonov, Maksim**; **Hussainova, Irina** Materials 2022 / art. 1252 https://doi.org/10.3390/ma15031252 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The influence of thermal dilution on the microstructure evolution of some combustion-synthesized refractory ceramic composites
Aydinyan, Sofiya; Kharatyan, Suren; **Hussainova, Irina** Crystals 2022 / art. 59 https://doi.org/10.3390/cryst12010059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Novel pathway for the combustion synthesis and consolidation of boron carbide
Zakaryan, Marieta; Zurnachyan, Alina; Amirkhanyan, Narine; Kirakosyan, Hasmik; **Antonov, Maksim**; Rodriguez, Miguel Angel; **Aydinyan, Sofiya** Materials 2022 / art. 5042 https://doi.org/10.3390/ma15145042 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 https://doi.org/10.3390/app10093283 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Synthesis and characterization of mechanical properties of boron–carbon-based superhard composites
Kommel, Lembit; **Omranpour Shahreza, Babak** Carbon Letters 2023 / p. 1311-1319 https://doi.org/10.1007/s42823-022-00351-9 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis of Ti2AlC MAX phase and Ti2C MXene by activated combustion
Aydinyan, Sofiya Ceramics international 2024 / p. 12263-12269 https://doi.org/10.1016/j.ceramint.2024.01.130 Journal metrics at Scopus Article at Scopus Journal metrics at WOS 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 https://www.ester.ee/record=b5235278*est https://www.scientific.net/KEM.799.165 https://doi.org/10.4028/www.scientific.net/KEM.799.165 Conference proceeding at Scopus Article at Scopus