

Combustion synthesis and consolidation of Ni-W nanocomposite material

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<https://doi.org/10.29272/cmt.2018.0007>

Combustion synthesis of nanoscale boron and silicon carbides

Zakaryan, Marieta; Amirkhanyan, Narine; Kirakosyan, Hasmik; Zurnachyan, Alina; **Aydinyan, Sofiya** 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

DTA/TG study of NiO Reduction by Mg+C combined reducer

Zakaryan, Marieta; Niazan, D.; **Aydinyan, Sofiya**; Kharatyan, Suren Հայաստանի քիմիական հանդես = Chemical Journal of Armenia = Химический журнал Армении 2018 / p. 473–485 : ill <http://chemistry.asj-oa.am/id/eprint/7899>
https://www.ester.ee/record=b1300031*est

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

Aydinyan, Sofiya; Kirakosyan, Hasmik; Zakaryan, Marieta Eurasian chemico-technological journal 2018 / p. 301-309 : ill
<https://doi.org/10.18321/ectj763>

High-entropy (Ti_{0.4}Ta_{0.4}V_{0.4}Nb_{0.4}Cr_{0.4})AlC MAX phase synthesized by SHS : 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>

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

Nazaretyan, Khachik; Kirakosyan, Hasmik; **Aydinyan, Sofiya**; Zakaryan, Marieta; Abovyan, L. S.; Kulak, M.; Khina, B. IOP conference series : materials science and engineering 2021 / art. 012052 <https://doi.org/10.1088/1757-899X/1140/1/012052>

Joint reduction of NiO + WO₃ oxides by combined Mg/C reducer. Synergetic effect

Zakaryan, Marieta; Nazaretyan, K.; **Aydinyan, Sofiya**; Kharatyan, Suren XV International Symposium on Self-Propagating High Temperature Synthesis, September 16-20, 2019 / p. 546-548 : ill
http://www.ism.ac.ru/events/SHS2019/doc/abstract_shs2019.pdf

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

Zakaryan, Marieta; Nazaretyan, Khachik; **Aydinyan, Sofiya**; Kharatyan, Suren Metals 2021 / art. 1351, 13 p. : ill
<https://doi.org/10.3390/met11091351> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kinetic highlights of the reduction of silver tungstate by Mg + C combined reducer

Zakaryan, Marieta; Nazaretyan, Khachik; **Aydinyan, Sofiya**; Kharatyan, Suren Metals 2022 / art. 1000
<https://doi.org/10.3390/met12061000> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Magnesium-carbothermal reduction of CuWO₄/MeO nanostructured precursors & synthesis of W/Cu composite materials

Zakaryan, Marieta; Kirakosyan, Hasmik; Abovyan, L.; **Aydinyan, Sofiya**; Kharatyan, Suren Chemical Journal of Armenia 2017 / p. 450-461 <http://chemistry.asj-oa.am/id/eprint/7826>

NiO and WO₃ coreduction by combined reducers Mg/C and preparation of W-Ni alloy [Online resource]

Zakaryan, Marieta; **Aydinyan, Sofiya**; Kharatyan, Suren Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L03
http://2018.cimtec-congress.org/abstracts_focused_session_cb-10

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

Zakaryan, Marieta; Nazaretyan, K.T.; **Aydinyan, Sofiya**; Kharatyan, Suren Journal of thermal analysis and calorimetry 2021 / p. 1811-1817 : ill <https://doi.org/10.1007/s10973-020-10148-5> [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](#)

Reaction pathway in the WO₃-NiO-Mg-C system. DTA/TG study

Zakaryan, Marieta; Niazan, O.; **Aydinyan, Sofiya**; Kharatyan, Suren Chemical Journal of Armenia 2019 / p. 223-232
<http://chemistry.asj-oa.am/id/eprint/7944>

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

Amirkhanyan, Narine; Kirakosyan, Hasmik; Zakaryan, Marieta; **Zurnachyan, Alina**; **Aydinyan, Sofiya** EC-SILICONF2 : The 2nd European Conference on Silicon and Silica Based Materials, Hungary, October 4-8, 2021 2021 / p. 118

Sintering of silicon carbide obtained by combustion synthesis

Amirkhanyan, Narine; Kirakosyan, Hasmik; Zakaryan, Marieta; Zurnachyan, Alina; Rodriguez, Miguel Angel; Abovyan, L.; **Aydinyan, Sofiya** Ceramics international 2023 / p. 26129-26134 <https://doi.org/10.1016/j.ceramint.2023.04.233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Zakaryan, Marieta; **Aydinyan, Sofiya**; Kharatyan, Suren Explosive Production of New Materials : Science, Technology, Business, and Innovations 2018 / p. 298-300 : ill http://www.ism.ac.ru/events/EPNM2018/EPNM2018_BookofPapers.pdf
<http://dx.doi.org/10.30826/EPNM18-103>