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Publication Metrics

For manuscripts published from date range May 1983 - May 2025

15
H-index

789
Sum of Times Cited

163
Total Publications

163
Web of Science Core Collection Publications

1
Sum of Times Cited by Patents

For all time

15
H-index

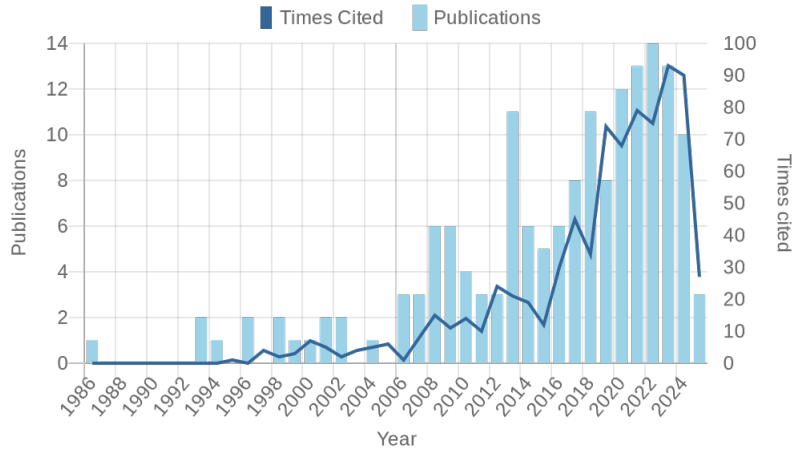
789
Sum of Times Cited

163
Total Publications

163
Web of Science Core Collection Publications

1
Sum of Times Cited by Patents

Publication Impact Over Time



Publications

For manuscripts published from date range May 1983 - May 2025 (163)

Thermoelectric Properties of Al(1-x)MnSi(1+x) Alloy Prepared by Self-Propagating High-Temperature Synthesis
Authors (4): Sivakova, A. O.; Karpov, A. V. ... Sytschev, A. E.
Published: Mar 2025 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386224700444
Accession Number: WOS:001473447200003

Combustion-synthesised TiAl/NiAl layered intermetallic composite: synthesis, phase composition, and microstructure
Authors (3): Busurina, M. L.; Sytschev, A. E.; Boyarchenko, O. D.
Published: Jan 2025 in Advances in Materials and Processing Technologies
DOI: 10.1080/2374068X.2024.2307085
Accession Number: WOS:001149542300001

Self-Propagating High-Temperature Synthesis of Ti(Mn0.755Al1.246) Alloy: Structure, Magnetic, and Electrical Properties
Authors (5): Busurina, M. L.; Lazarev, P. A. ... Sytschev, A. E.
Published: 2025 in Inorganic Materials: Applied Research
DOI: 10.1134/S2075113324701363
Accession Number: WOS:001478970800001

Features of Selective Laser Melting of SHS-Prepared Intermetallic Alloy Ti20Al3Si9
Authors (6): Lazarev, P. A.; Raznoschikov, A. S. ... Sytschev, A. E.
Published: Dec 2024 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386224700328
Accession Number: WOS:001401974600010

Thermal Ionization during SHS of Ti-Al-Mg System
Authors (3): Lazarev, P. A.; Barinov, V. Yu.; Sytschev, A. E.
Published: Dec 2024 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138622470033X
Accession Number: WOS:001401974600005

Electrical Resistance, Magnetic and Thermoelectric Properties of the Heusler Alloy Co2TiAl Obtained by Self-Propagating High-Temperature Synthesis
Authors (7): Busurina, M. L.; Karpov, A. V. ... Sytschev, A. E.
Published: Oct 2024 in Physics of Metals and Metallography
DOI: 10.1134/S0031918X24601355
Accession Number: WOS:001381827400007

A Study of the Structure and Properties of a Ti-Al-Mg/Ti-Based Metal-Intermetallic Material Produced by Self-Propagating High-Temperature Synthesis Combined with Pressing
Authors (4): Lazarev, P. A.; Sytschev, A. E. ... Boyarchenko, O. D.
Published: Oct 2024 in Inorganic Materials: Applied Research
DOI: 10.1134/S2075113324701089
Accession Number: WOS:001337209200012

Self-Propagating High-Temperature Synthesis of Cu-Mn-Al Alloys: Thermoelectric and Magnetic Properties
Authors (7): Sivakova, A. O.; Karpov, A. V. ... Sytschev, A. E.
Published: Sep 2024 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386224700201
Accession Number: WOS:001308109400008

Combustion Peculiarities in the 2Co-Ti-Al System and Properties of the Half-Metallic Ferromagnetic Heusler Alloy Co2TiAl
Authors (4): Busurina, M. L.; Sytschev, A. E. ... Karpov, A. V.
Published: Aug 2024 in Russian Journal of Physical Chemistry B
DOI: 10.1134/S1990793124700544
Accession Number: WOS:001311184800003

Mechanical Properties of Composite Rods Produced by Hot Gas Extrusion of the Nickel and Aluminum Powder Mixtures in a Steel Shell
Authors (6): Galiev, F. F.; Saikov, I. V. ... Alymov, M. I.
Published: Jun 2024 in Inorganic Materials: Applied Research
DOI: 10.1134/S2075113324700205
Accession Number: WOS:001238301000020

Features of Front Propagation during Combustion of a Thermite-Type Mixture FeO/TiO2/B2O3/Cr2O3/CaCrO4/Al/C under Gravity Forces
Authors (3): Silyakov, S. L.; Khomenko, N. Yu.; Sytschev, A. E.
Published: Jun 2024 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386224700043
Accession Number: WOS:001260591000006

Pycnometric Determination of Porosity Characteristics
Authors (6): Ankudinov, A. B.; Alymov, M. I. ... Shustov, V. S.
Published: Apr 2024 in Inorganic Materials
DOI: 10.1134/S0020168524700651
Accession Number: WOS:001441375200023

Device for measurement the seebeck coefficient of thermoelectric materials in the temperature range 300-800 K
Authors (3): Karpov, A. V.; Sytschev, A. E.; Sivakova, A. O.
Published: 2024 in Measurement Techniques
DOI: 10.1007/S11018-023-02275-W
Accession Number: WOS:001151115800002

Barothermic treatment of TixZr1-xC mixed carbides produced by MA-SHS consolidation
Authors (7): Shcherbakov, V. A.; Semenchuk, I. E. ... Padalko, A. G.
Published: Dec 2023 in Materialia
DOI: 10.1016/J.MTLA.2023.101924
Accession Number: WOS:001103582700001

Synthesis, Structure, and Magnetic Properties of 2Ni-Al-Mn-Based Alloy
Authors (6): Busurina, M. L.; Boyarchenko, O. D. ... Sychev, A. E.
Published: Nov 2023 in Russian Metallurgy (Metally)
DOI: 10.1134/S0036029523110046
Accession Number: WOS:001190595900014

Polymorphism of High-Temperature Aluminothermic Synthesis Products in the Ni-Al-Co System
Authors (5): Busurina, M. L.; Gorshkov, V. A. ... Kovalev, I. D.
Published: Oct 2023 in Inorganic Materials
DOI: 10.1134/S0020168523100023
Accession Number: WOS:001179332800012

Pressure-Assisted Electrothermal Explosion Synthesis of Titanium Nickelide
Authors (5): Bogatov, Yu. V.; Shcherbakov, A. V. ... Sychev, A. E.
Published: Oct 2023 in Inorganic Materials
DOI: 10.1134/S0020168523100011
Accession Number: WOS:001179332800005

SHS of Al70Co15Ni15 and Al65Cu20Co15 Quasicrystals
Authors (6): Busurina, M. L.; Sytschev, A. E. ... Morozov, Yu. G.
Published: Sep 2023 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386223030056
Accession Number: WOS:001062789300006

Structure and Phase Formation in the Ni-Al-Co System during Self-Propagating High-Temperature Synthesis
Authors (6): Sychev, A. E.; Busurina, M. L. ... Sivakova, A. O.
Published: Jul 2023 in Inorganic Materials
DOI: 10.1134/S0020168523070154
Accession Number: WOS:001152562600002

The influence of mechanical activation on the structure and phase formation of an electro-thermal explosion in the Ti-Zr-C system
Authors (6): Shcherbakov, V. A.; Gryadunov, A. N. ... Alymov, M. I.
Published: Jun 2023 in Ceramics International
DOI: 10.1016/J.CERAMINT.2023.03.123
Accession Number: WOS:000994054100001

Self-Propagating High-Temperature Synthesis of a Ti-Al-Mn Alloy
Authors (5): Lazarev, P. A.; Busurina, M. L. ... Sychev, A. E.
Published: Jun 2023 in Inorganic Materials
DOI: 10.1134/S0020168523060110
Accession Number: WOS:001130623400010

Structure and Phase Formation in Ni plus Al Powder Mixture Enclosed in a Steel Cartridge during Hot Gas Extrusion
Authors (6): Galiev, F. F.; Berbetcev, V. D. ... Alymov, M. I.
Published: Jun 2023 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386223020036
Accession Number: WOS:001012436700005

Welding in Ti-Al and Ni-Al Systems by Self-Propagating High-Temperature Synthesis
Authors (4): Sytschev, A. E.; Busurina, M. L. ... Vadchenko, S. G.
Published: Mar 2023 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386223010077
Accession Number: WOS:000963743300006

Dielectric Properties of BN-ZrB2 and BN-ZrO2 Based Ceramics Produced by Self-Propagating High-Temperature Synthesis
Authors (6): Karpov, A. V.; Sychev, A. E. ... Loryan, V. E.
Published: Mar 2023 in Glass and Ceramics (English Translation of Steklo I Keramika)
DOI: 10.1007/S10717-023-00532-6
Accession Number: WOS:000980850600001

Self-Propagiating High-Temperature Synthesis in Ti-Al-Mn System
Authors (3): Lazarev, P. A.; Busurina, M. L.; Sytschev, A. E.
Published: Feb 2023 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508223010094
Accession Number: WOS:000961040100009

Features of Compaction in the Combustion Process of a System Based on (Ni-Al)/(SiO2, Al2O3, 3Al2O3.2SiO2)
Authors (3): Sychev, A. E.; Busurina, M. L.; Vadchenko, C. G.
Published: Jan 2023 in Refractories and Industrial Ceramics
DOI: 10.1007/S11148-023-00766-5
Accession Number: WOS:001065095900002

SHS Pressing of (Ti-Al-Mn)/Ti Metal-Intermetallic Layered Material
Authors (5): Lazarev, P. A.; Busurina, M. L. ... Belyakova, A. F.
Published: Dec 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222040057
Accession Number: WOS:000916281800002

Effect of Al on the Phase Composition, Microstructure, and Properties of SHS Composites Based on the Ti-B System
Authors (4): Bogatov, Yu. V.; Shcherbakov, V. A. ... Sychev, A. E.
Published: Dec 2022 in Inorganic Materials
DOI: 10.1134/S0020168522120032
Accession Number: WOS:000941161800011

Forced SHS Compaction of NiTi
Authors (5): Bogatov, Yu. V.; Shcherbakov, V. A. ... Kovalev, D. Yu.
Published: Dec 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222050028
Accession Number: WOS:000916281800012

Dielectric Properties of B-N and B-N-xSiO2 Nitride Ceramics by SHS
Authors (4): Loryan, V. E.; Karpov, A. V. ... Sytschev, A. E.
Published: Dec 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222040069
Accession Number: WOS:000916281800016

High-Temperature Interaction between Carbon Fibers and Cu-Ag Eutectic Alloy
Authors (5): Sytschev, A. E.; Vadchenko, S. G. ... Karpov, A. V.
Published: Dec 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222040112
Accession Number: WOS:000916281800005

Structure and Phase Formation of a Ti-Al-Si Based Alloy Prepared by Self-Propagating High-Temperature Synthesis Compaction
Authors (6): Lazarev, P. A.; Busurina, M. L. ... Karpov, A., V
Published: Sep 2022 in Inorganic Materials
DOI: 10.1134/S0020168522090096
Accession Number: WOS:000887023200013

Combustion Synthesis and Magnetic Properties of Ni-Al-Mn Based Alloy
Authors (7): Sytschev, A. E.; Kochetov, N. A. ... Busurina, M. L.
Published: Jun 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138622202011X
Accession Number: WOS:000815640100008

On the Plasma-Chemical Processing of Finely Dispersed Silicon Monoxide Particles in Argon-Hydrogen Plasma Flows
Authors (2): Skryabin, A. S.; Sychev, A. E.
Published: Jun 2022 in High Temperature
DOI: 10.1134/S0018151X22010333
Accession Number: WOS:000939495600003

Combustion Synthesis and Phase Formation in the Ti-Al-Mn Alloy
Authors (3): Sytschev, A. E.; Busurina, M. L.; Lazarev, P. A.
Published: Jun 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222020108
Accession Number: WOS:000815640100005

Synthesis of Ultra-High-Temperature Ta4HfC5-HfB2 Composites by Electro-thermal Explosion under Pressure
Authors (5): Shcherbakov, V. A.; Gryadunov, A. N. ... Alymov, M., I
Published: Jun 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222020091
Accession Number: WOS:000815640100001

Self-Propagating High-Temperature Synthesis Pressing of Composites Based on the TiB2-B4C-Al System
Authors (3): Bogatov, Yu, V; Shcherbakov, V. A.; Sychev, A. E.
Published: May 2022 in Inorganic Materials
DOI: 10.1134/S0020168522050016
Accession Number: WOS:000820652000006

Interaction of Cu Melt with Graphite Fibers
Authors (4): Sytschev, A. E.; Vadchenko, S. G. ... Busurina, M. L.
Published: Mar 2022 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386222010113
Accession Number: WOS:000770333200010

High-Temperature Interaction of Carbon Fibers with a Nickel Melt
Authors (7): Sytschev, A. E.; Vadchenko, S. G. ... Boyarchenko, O. D.
Published: Feb 2022 in Russian Journal of Physical Chemistry B
DOI: 10.1134/S1990793122010158
Accession Number: WOS:000784548800026

Peculiarities of Structure Formation in Ni-C, Al-C, and Ni-Al-C Systems at High-Temperature Heating
Authors (4): Vadchenko, S. G.; Shchukin, A. S. ... Boyarchenko, O. D.
Published: Feb 2022 in Inorganic Materials: Applied Research
DOI: 10.1134/S2075113322010385
Accession Number: WOS:000758329600001

High-Temperature Synthesis of Cr-Mo-Al-C Materials
Authors (4): Gorshkov, V. A.; Kovalev, D. Yu ... Sychev, A. E.
Published: Dec 2021 in Inorganic Materials
DOI: 10.1134/S0020168521120074
Accession Number: WOS:000742659800013

Synthesis of Ta4HfC5 Ceramics with a Submicron Structure by Electro-Thermal Explosion under Pressure
Authors (6): Shcherbakov, V. A.; Gryadunov, A. N. ... Alymov, M., I
Published: Dec 2021 in Doklady Chemistry
DOI: 10.1134/S0012500821120041
Accession Number: WOS:000771630300003

Self-Propagating High-Temperature Synthesis in the Ti-Al-Si System
Authors (4): Lazarev, P. A.; Sytschev, A. E. ... Aborkin, A., V
Published: Nov 2021 in Inorganic Materials
DOI: 10.1134/S002016852111008X
Accession Number: WOS:000723998800015

Effect of Carbon on the Electrical Resistivity of Ni-Al Intermetallic Alloy Synthesized by an Electrothermal Explosion under Pressure
Authors (3): Sytschev, A. E.; Karpov, A., V; Shcherbakov, A., V
Published: Sep 2021 in Inorganic Materials: Applied Research
DOI: 10.1134/S2075113321050403
Accession Number: WOS:000707035200025

Thermal expansion of aluminum matrix composites reinforced by carbon nanotubes with in-situ and ex-situ designed interfaces ceramics layers
Authors (8): Aborkin, A. V.; Elkin, A. I. ... Alymov, M. I.
Published: Aug 2021 in Journal of Alloys and Compounds
DOI: 10.1016/J.JALLCOM.2021.159593
Accession Number: WOS:000652810800001

Interaction of Carbon Fiber with a Ti-Al Melt during Self-Propagating High-Temperature Synthesis
Authors (4): Sytschev, A. E.; Vadchenko, S. G. ... Boyarchenko, O. D.
Published: Jul 2021 in Inorganic Materials
DOI: 10.1134/S0020168521070153
Accession Number: WOS:000674635000005

Synthesis of the Ni-Al-C Composite with Multilayer Carbon Nanostructures by an Electrothermal Explosion under Pressure
Authors (2): Shcherbakov, A. V.; Sychev, A. E.
Published: Mar 2021 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508221020088
Accession Number: WOS:000640790300008

Preparation of an Al-Ti-Mg Composite by Self-Propagating High-Temperature Synthesis
Authors (4): Lazarev, P. A.; Sychev, A. E. ... Sachkova, N., V
Published: Mar 2021 in Inorganic Materials
DOI: 10.1134/S0020168521030079
Accession Number: WOS:000636600700015

Synthesis and Properties of the Composite Material Based on a (V,Cr)AlC Solid Solution
Authors (6): Sychev, A. E.; Gorshkov, V. A. ... Belikova, A. F.
Published: Mar 2021 in Physics of Metals and Metallography
DOI: 10.1134/S0031918X21030145
Accession Number: WOS:000646949300010

Effects of magnesium on initial temperature and mechanical activation on combustion synthesis in Ti-Al-Mg system
Authors (2): Kochetov, N. A.; Sytschev, A. E.
Published: Jan 2021 in Materials Chemistry and Physics
DOI: 10.1016/J.MATCHEMPHYS.2020.123727
Accession Number: WOS:000583335900029

Self-Propagating High-Temperature Synthesis of Mechanically Activated Mixtures in Co-Ti-Al
Authors (6): Vadchenko, S. G.; Busurina, M. L. ... Sychev, A. E.
Published: Jan 2021 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508221010068
Accession Number: WOS:000618242800006

Synthesis of an Intermetallic Alloy Based on 2Cu-Ti-Al: Structure Analysis and Electrophysical Properties
Authors (5): Busurina, M. L.; Sytschev, A. E. ... Kovalev, I. D.
Published: Jan 2021 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S1067821221010053
Accession Number: WOS:000625939600009

Lightweight Al-Ti-Mg Alloy by SHS Method
Authors (4): Lazarev, P. A.; Sytschev, A. E. ... Kovalev, I. D.
Published: Jan 2021 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386221010064
Accession Number: WOS:000639840500011

Peculiarities of the Structure and Phase Formation of the Fe2TiAl Heusler Alloy during Self-Propagating High-Temperature Synthesis (SHS)
Authors (5): Busurina, M. L.; Sytschev, A. E. ... Kovalev, I. D.
Published: Nov 2020 in Russian Journal of Physical Chemistry B
DOI: 10.1134/S1990793120060020
Accession Number: WOS:000610900300018

Effect of SiO2 Content and Mechanical Activation on Ni-Al-SiO2 Combustion
Authors (2): Kochetov, N. A.; Sychev, A. E.
Published: Sep 2020 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508220050020
Accession Number: WOS:000588714400002

Synthesis, Structure and Properties of Material Based on V2AlC MAX Phase
Authors (4): Gorshkov, V. A.; Karpov, A., V ... Sychev, A. E.
Published: Aug 2020 in Physics of Metals and Metallography
DOI: 10.1134/S0031918X20080037
Accession Number: WOS:000576572600006

Self-Propagating High-Temperature Synthesis of TiC plus xC Composites
Authors (5): Shcherbakov, V. A.; Gryadunov, A. N. ... Sychev, A. E.
Published: Jun 2020 in Inorganic Materials
DOI: 10.1134/S0020168520060102
Accession Number: WOS:000543128000003

Thermal Explosion in a 2Co-Ti-Al System: Combustion, Phase Formation, and Properties
Authors (5): Busurina, M. L.; Sychev, A. E. ... Sachkova, N., V
Published: Jun 2020 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508220030089
Accession Number: WOS:000552068900008

Composition and Crystalline Structure of Ternary Phases in the Ta-Ni-Al System
Authors (4): Shchukin, A. S.; Konovalikhin, S. V. ... Sytschev, A. E.
Published: May 2020 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S1067821220030141
Accession Number: WOS:000545674700009

Wear under Conditions of Dry Friction of a Composite Material Based on an Aluminum Alloy Reinforced with Nanocrystalline Graphite
Authors (4): Aborkin, A. V.; Elkin, A. I. ... Alymov, M. I.
Published: May 2020 in Journal of Friction and Wear
DOI: 10.3103/S1068366620030022
Accession Number: WOS:000543202600008

SHS Joining of Ta with NiAl: Structure of Transition Zone
Authors (2): Shchukin, A. S.; Sytschev, A. E.
Published: Apr 2020 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386220020120
Accession Number: WOS:000544972900014

Ni-Al-SiO2-Based Cermet Produced by Self-Propagating High-Temperature Synthesis
Authors (5): Sychev, A. E.; Kochetov, N. A. ... Busurina, M. L.
Published: Mar 2020 in Glass and Ceramics (English Translation of Steklo I Keramika)
DOI: 10.1007/S10717-020-00225-4
Accession Number: WOS:000521696200002

Temperature Dependence of Electrical Resistivity of the TiN/TiAl3/Ti2AlN Composite Material
Authors (4): Kondakov, A. A.; Karpov, A., V ... Sytschev, A. E.
Published: Mar 2020 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S106782122002008X
Accession Number: WOS:000532728600009

The Use of Gas Extrusion for the Synthesis of a High-Strength Composite Based on a 5xxx Series Aluminum Alloy Strengthened with Carbon Nanostructures
Authors (6): Aborkin, A. V.; Saikov, I. V. ... Alymov, M. I.
Published: Mar 2020 in Technical Physics Letters
DOI: 10.1134/S1063785020030025
Accession Number: WOS:000529352900002

Structure and Properties of SPS-produced Carbon-Containing NiAl
Authors (5): Sytschev, A. E.; Kochetov, N. A. ... Aborkin, A. V.
Published: Jan 2020 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386220010124
Accession Number: WOS:000524237400013

d0-Ferromagnetism in SHS Titanium Nitride Treated by Ball Milling
Authors (4): Busurina, M. L.; Belousova, O., V ... Sytschev, A. E.
Published: Dec 2019 in Eurasian Chemico-Technological Journal
DOI: 10.18321/ECTJ892
Accession Number: WOS:000505618100008

Processing of Ni-Al intermetallic with 2D carborn components
Authors (5): Sytschev, A. E.; Kochetov, N. A. ... Shchukin, A. S.
Published: Dec 2019 in Materials Chemistry and Physics
DOI: 10.1016/J.MATCHEMPHYS.2019.121898
Accession Number: WOS:000490046000015

Effect of Al2O3 on the Microhardness of AMg2/Graphite Nanocomposite Powder Gas Dynamic Coatings on Aluminum Alloys
Authors (5): Aborkin, A. V.; Arkhipov, V. E. ... Alymov, M. I.
Published: Sep 2019 in Metal Science and Heat Treatment
DOI: 10.1007/S11041-019-00430-1
Accession Number: WOS:000495288700004

Investigation of the Composition and Properties of a Cr2AlC MAX Phase-Based Material Prepared by Metallothermic SHS
Authors (5): Gorshkov, V. A.; Miloserdov, P. A. ... Sytschev, A. E.
Published: May 2019 in Physics of Metals and Metallography
DOI: 10.1134/S0031918X19050041
Accession Number: WOS:000471977300010

Effect of type of ceramic particles on efficiency of gas dynamic spraying and hardness of hybrid coatings AlMg6/C60
Authors (5): Aborkin, A. V.; Elkin, A. I. ... Sytschev, A. E.
Published: Apr 2019 in IOP Conference Series: Materials Science and Engineering
DOI: 10.1088/1757-899X/525/1/012001
Accession Number: WOS:000490925000001

Interaction of Graphite with a Ti-Al Melt during Self-Propagating High-Temperature Synthesis
Authors (4): Sychev, A. E.; Busurina, M. L. ... Vrel, D.
Published: 2019 in Inorganic Materials
DOI: 10.1134/S002016851908017X
Accession Number: WOS:000483703300005

Peculiarities of a NiAl/Mo Transition Zone Formed during Self-Propagating High-Temperature Synthesis
Authors (2): Shchukin, A. S.; Sytschev, A. E.
Published: 2019 in Physics of Metals and Metallography
DOI: 10.1134/S0031918X19090138
Accession Number: WOS:000489051000005

Effect of Content and Mechanical Activation on the Combustion of a Ni-Al-C System
Authors (2): Kochetov, N. A.; Sychev, A. E.
Published: 2019 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S001050821906008X
Accession Number: WOS:000504614400008

Production of the micron powders by the electric explosion of metallic fibers
Authors (6): Skryabin, A. S.; Pavlov, A. V. ... Sytchev, A. E.
Published: Nov 2018 in Journal of Physics: Conference Series
DOI: 10.1088/1742-6596/1115/4/042017
Accession Number: WOS:000546577800154

Conductive TiB2-AlN-BN-Based Composite SHS Ceramics
Authors (6): Karpov, A. V.; Konovalikhin, S. V. ... Sytschev, A. E.
Published: Nov 2018 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S1067821218060081
Accession Number: WOS:000457227300011

Solution combustion synthesis of nano-catalysts with a hierarchical structure
Authors (9): Xanthopoulou, G.; Thoda, O. ... Chroneos, A.
Published: Aug 2018 in Journal of Catalysis
DOI: 10.1016/J.JCAT.2018.04.003
Accession Number: WOS:000440391600012

Synthesis of composite based on W Ni-Al system by the electro-thermal explosion under pressure
Authors (4): Shchukin, A. S.; Scherbakov, A., V ... Shcherbakov, V. A.
Published: Aug 2018 in Letters on Materials-pis Ma O Materialakh
DOI: 10.22226/2410-3535-2018-3-274-277
Accession Number: WOS:000442955200008

Interaction of NiAl Intermetallic During SHS Synthesis with Ta Substrate
Authors (3): Shchukin, Alexander S.; Vrel, Dominique; Sytschev, Alexander E.
Published: Aug 2018 in Advanced Engineering Materials
DOI: 10.1002/ADEM.201701077
Accession Number: WOS:000440898100010

Electrically Conducting Ceramics Based on Al-AlN-TiB2
Authors (4): Karpov, A. V.; Kovalev, D. Yu. ... Sytschev, A. E.
Published: Jul 2018 in High Temperature
DOI: 10.1134/S0018151X18040089
Accession Number: WOS:000445372400009

Ni(3)Dl/C Composites by Thermal Explosion
Authors (4): Sytschev, A. E.; Vadchenko, S. G. ... Shchukin, A. S.
Published: Apr 2018 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386218010090
Accession Number: WOS:000429031400011

Effect of iron pentacarbonyl additives on the nucleation of soot particles during the pyrolysis of ethylene in shock waves
Authors (9): Vlasov, P. A.; Smirnov, V. N. ... Borunova, A. B.
Published: Feb 2018 in Journal of Physics: Conference Series
DOI: 10.1088/1742-6596/946/1/012072
Accession Number: WOS:000446782200072

Morphology, granulometric and structural phase composition of mechanically synthesized composite powder Al-Mg plus Al/MWCNTs
Authors (7): Aborkin, A. V.; Sobol'kov, A. V. ... Sytschev, A. E.
Published: Jan 2018 in Journal of Physics: Conference Series
DOI: 10.1088/1742-6596/951/1/012008
Accession Number: WOS:000446239900008

Effect of a NiO Additive on Interaction in a Ni-Al-W System in Self-Propagating High-Temperature Synthesis
Authors (2): Shchukin, A. S.; Sytschev, A. E.
Published: 2018 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S001050821804007X
Accession Number: WOS:000441745400007

Features of Microstructure Formation in the Ni-Al-W System during SHS
Authors (3): Shchukin, A. S.; Vadchenko, S. G.; Sytschev, A. E.
Published: 2018 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S1067821218050164
Accession Number: WOS:000448533700017

Reaction Synthesis of the Ti2AlN MAX-Phase
Authors (3): Kovalev, D. Yu.; Luginina, M. A.; Sytschev, A. E.
Published: Jul 2017 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S1067821217030087
Accession Number: WOS:000405702300018

SHS Joining by Thermal Explosion in (Ni
Authors (6): Sytschev, A. E.; Vrel, D. ... Kovalev, I. D.
Published: Jan 2017 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386217010137
Accession Number: WOS:000400300400008

Structure and Properties of a Composite Material Obtained by Thermal Explosion in a Mixture of Ni + Al + Cr2O3
Authors (6): Boyarchenko, O. D.; Sychev, A. E. ... Sichinava, M. A.
Published: Jan 2017 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508217010075
Accession Number: WOS:000398061500007

Synthesis of a new MAX phase in the Ti-Zr-Al-C system
Authors (6): Kovalev, Dmitry Yu.; Luginina, Marina A. ... Shchukin, Aleksandr S.
Published: Jan 2017 in Mendeleev Communications
DOI: 10.1016/J.MENCOM.2017.01.018
Accession Number: WOS:000393539000018

International Journal of Self-Propagating High-Temperature Synthesis
Authors (2): Scheck, Yury B.; Sytschev, Alexander E.
Published: 2017 in Concise Encyclopedia of Self-propagating High-temperature Synthesis: History, Theory, Technology, and Products
DOI: 10.1016/B978-0-12-804173-4.00079-X
Accession Number: WOS:000656044900072

Combustion synthesis in the Ni-Al-Nb ternary system: A Time-Resolved X-ray Diffraction study
Authors (4): Sytschev, Alexander E.; Kovalev, Dmitry Yu. ... Vadchenko, Sergey G.
Published: 2017 in Results in Physics
DOI: 10.1016/J.RINP.2017.05.030
Accession Number: WOS:000417531500256

Fine structure of transition layer formed between NiAl melt and W substrate during self-propagating high-temperature synthesis
Authors (2): Shchukin, A. S.; Sytschev, A. E.
Published: 2017 in Letters on Materials-pis Ma O Materialakh
DOI: 10.22226/2410-3535-2017-3-244-248
Accession Number: WOS:000410950000007

Combustion synthesis in bi-layered (Ti-Al)/(Ni-Al) system
Authors (5): Sytschev, A. E.; Vrel, Dominique ... Sachkova, N. V.
Published: 2017 in Journal of Materials Processing Technology
DOI: 10.1016/J.JMATPROTEC.2016.09.010
Accession Number: WOS:000389088200007

Structure and phase formation in the Ti-Al-Nb system in the thermal explosion mode
Authors (7): Busurina, M. L.; Umarov, L. M. ... Sychev, A. E.
Published: Nov 2016 in Combustion, Explosion, and Shock Waves
DOI: 10.1134/S0010508216060058
Accession Number: WOS:000391821700005

Ti-Al-Nb Alloys by Thermal Explosion: Synthesis and Characterization
Authors (7): Busurina, M. L.; Umarov, L. M. ... Sytschev, A. E.
Published: Apr 2016 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386216020059
Accession Number: WOS:000463754300001

Low-Weight TiAl3 Composites by Thermal Explosion
Authors (4): Kamynina, O. K.; Vadchenko, S. G. ... Kovalev, I. D.
Published: Apr 2016 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386216020060
Accession Number: WOS:000378942000006

SHS Joining in the Ti-C-Si System
Authors (5): Kamynina, O. K.; Vadchenko, S. G. ... Sytschev, A. E.
Published: Jan 2016 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386216010064
Accession Number: WOS:000373273200012

Preparation of Ti2AlN by Reactive Sintering
Authors (3): Luginina, M. A.; Kovalev, D. Yu.; Sytschev, A. E.
Published: Jan 2016 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386216010088
Accession Number: WOS:000373273200007

Si-Filled Ceramic Composite by Thermal Explosion in the Al-SiO2 System
Authors (6): Karpov, A. V.; Vadchenko, S. G. ... Sachkova, N. V.
Published: 2016 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386216020072
Accession Number: WOS:000378942000008

Combustion of Layered SHS Systems: Thermal Conditions at the Interface
Authors (5): Boyarchenko, O. D.; Kostin, S. V. ... Sytschev, A. E.
Published: Jul 2015 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386215030048
Accession Number: WOS:000371142100002

Influence of synthesis conditions on the structure and phase formation during the SHS hydration of titanium
Authors (8): Prokudina, V. K.; Kovalev, D. Yu. ... Sachkova, N. V.
Published: Mar 2015 in Russian Journal of Non-Ferrous Metals
DOI: 10.3103/S1067821215010150
Accession Number: WOS:000351447400015

Self-Propagating High-Temperature Synthesis in the Ti-Si-C System: Features of Product Patterning
Authors (5): Vadchenko, S. G.; Sytschev, A. E. ... Konovalikhin, S. V.
Published: Jan 2015 in Nanotechnologies in Russia
DOI: 10.1134/S1995078015010206
Accession Number: WOS:000428883000009

THE MECHANICAL PROPERTIES OF COMPACT TITANIUM PRODUCED FROM TITANIUM HYDRIDE POWDERS USING SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS
Authors (6): Dekhtyar, A. I.; Ivasishin, O. M. ... Sychev, A. E.
Published: 2015 in Powder Metallurgy and Metal Ceramics
DOI: 10.1007/S11106-015-9649-Z
Accession Number: WOS:000350482800007

Porous Ti-Co Alloys and Their Joining with Titanium by SHS cladding
Authors (5): Sytschev, A. E.; Kamynina, O. K. ... Vadchenko, S. G.
Published: 2015 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386215030127
Accession Number: WOS:000371142100011

Formation of Nanolaminate Structures in the Ti-Si-C System: A Crystallochemical Study
Authors (5): Konovalikhin, S. V.; Kovalev, D. Yu. ... Shchukin, A. S.
Published: Oct 2014 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386214040049
Accession Number: WOS:000217544700009

SHS Hydrogenation of Group IV Metals as Studied by Time-Resolved XRD
Authors (5): Kovalev, D. Yu.; Sytschev, A. E. ... Moiseeva, I. V.
Published: Oct 2014 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386214040062
Accession Number: WOS:000217544700005

SHS of MAX Compounds in the Ti-Si-C System: Influence of Mechanical Activation
Authors (5): Vadchenko, S. G.; Sytschev, A. E. ... Belikova, A. F.
Published: Sep 2014 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138621403011X
Accession Number: WOS:000217543800004

NiMnxFe2-xO4 Ferrites: Combustion Synthesis and Characterization
Authors (6): Dmitriev, T. P.; Busurin, S. M. ... Sytschev, A. E.
Published: Jul 2014 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386214030042
Accession Number: WOS:000217543800008

Mechanical Activation of a Hard Magnetic Fe-Cr-Co Alloy Powder Charge
Authors (8): Alymov, M. I.; Milyaev, I. M. ... Bompe, T. A.
Published: Jul 2014 in Russian Metallurgy (Metally)
DOI: 10.1134/S0036029514070027
Accession Number: WOS:000415546500012

NiAl Intermetallics Dispersion-Strengthened with Silica, Alumina, and Mullite: Synthesis and Characterization
Authors (6): Boyarchenko, O. D.; Sytschev, A. E. ... Vrel, D.
Published: Apr 2014 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386214020034
Accession Number: WOS:000217543000004

SHS Mechanoactivated Ni-Al-W Blends: Some Structural Aspects
Authors (3): Sytschev, A. E.; Vadchenko, S. G.; Shchukin, A. S.
Published: Jul 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386213030084
Accession Number: WOS:000217540300008

Deposition of Ni-Al Coatings onto Copper by Mechanical/Heat Treatment
Authors (6): Sytschev, A. E.; Busurin, S. M. ... Sachkova, N. V.
Published: Jun 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386213020106
Accession Number: WOS:000217537400007

SHS Hydrogenation of Titanium: Some Structural and Kinetic Features
Authors (7): Prokudina, V. K.; Kovaleva, D. Yu. ... Dekhtyar, A. I.
Published: Apr 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386213020064
Accession Number: WOS:000217537400009

Combustion Synthesis in the Ni-Al-W System: Some Structural Features
Authors (7): Sytschev, A. E.; Vrel, D. ... Vadchenko, S. G.
Published: Apr 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386213020118
Accession Number: WOS:000217537400008

SHS Welding by Thermal Explosion: Ti-Ti and Ti-NiAl Joints
Authors (5): Sytschev, A. E.; Vadchenko, S. G. ... Sachkova, N. V.
Published: Apr 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138621302009X
Accession Number: WOS:000217537400006

SHS for Space Exploration
Authors (6): Sytschev, A. E.; Vadchenko, S. G. ... Sachkova, N. V.
Published: Feb 2013 in Eurasian Chemico-Technological Journal
DOI: 10.18321/ECTJ144
Accession Number: WOS:000420244200001

Electric Conductivity and Gas-Sensing Properties of Nickel Ferrite Thin Films Formed by Ion-Beam Sputtering Deposition
Authors (7): Busurin, S. M.; Tsygankov, P. A. ... Sytschev, A. E.
Published: Feb 2013 in Eurasian Chemico-Technological Journal
DOI: 10.18321/ECTJ146
Accession Number: WOS:000420244200003

SHS Joining Via Combustion of Ti-Containing Systems
Authors (4): Boyarchenko, O. D.; Vadchenko, S. G. ... Sytschev, A. E.
Published: Feb 2013 in Eurasian Chemico-Technological Journal
DOI: 10.18321/ECTJ145
Accession Number: WOS:000420244200002

Professor Alexander Grigorevich Merzhanov (1931-2013) In Memoriam
Authors (2): Smirnov, Nickolay; Sytchev, Alexander
Published: 2013 in Combustion and Flame
DOI: 10.1016/J.COMBUSTFLAME.2013.08.025
Accession Number: WOS:000326061700001

Load-Assisted SHS Joining of NiAl to Ni-1
Authors (5): Sytschev, A. E.; Vrel, D. ... Sachkova, N. V.
Published: 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386213010111
Accession Number: WOS:000217536500010

SHS Joining in the Ti-Si-C System: Structure of Transition Layer
Authors (4): Vadchenko, S. G.; Boyarchenko, O. D. ... Sachkova, N. V.
Published: 2013 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386213010135
Accession Number: WOS:000217536500009

SHS in Microgravity: Analysis of Combustion Products Formed in the Ti-Al-C System
Authors (5): Sytschev, A. E.; Vadchenko, S. G. ... Sachkova, N. V.
Published: Oct 2012 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386212040048
Accession Number: WOS:000217535600005

SHS of Graded Ti-Al-C Ceramics: Composition of Transition Layers
Authors (6): Sytschev, A. E.; Vrel, D. ... Sachkova, N. V.
Published: Oct 2012 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138621204005X
Accession Number: WOS:000217535600006

Production, electrical conductivity, and gas-sensing properties of thin nickel ferrite films
Authors (7): Busurin, S. M.; Tsygankov, P. A. ... Sychev, A. E.
Published: Jun 2012 in Doklady Physical Chemistry
DOI: 10.1134/S0012501612060012
Accession Number: WOS:000305954200001

Thermit-Type SiO2-Al Reaction in Arc Discharge
Authors (6): Grishin, Yu. M.; Kozlov, N. P. ... Sytschev, A. E.
Published: Sep 2011 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386211030022
Accession Number: WOS:000217531000009

SHS Joining of Intermetallics with Metallic Substrates
Authors (5): Sytschev, A. E.; Vadchenko, S. G. ... Sachkova, N. V.
Published: 2011 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386211030149
Accession Number: WOS:000217531000010

SHS-Based Fabrication of Inorganic Materials with Desired Structure and Porosity
Authors (4): Boyarchenko, O. D.; Barinov, V. Yu. ... Sytschev, A. E.
Published: 2011 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386211010043
Accession Number: WOS:000217528400004

Synthesis of Ti-Al-Based Materials by Thermal Explosion
Authors (6): Boyarchenko, O. D.; Kamynina, O. K. ... Umarov, L. M.
Published: Dec 2010 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386210040084
Accession Number: WOS:000217526500008

Interaction of SHS-Produced Melt with a Ti Surface in Microgravity Conditions
Authors (3): Shcherbakov, V. A.; Sytschev, A. E.; Sachkova, N. V.
Published: 2010 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138621002010X
Accession Number: WOS:000217524500010

Liquid-Phase Final Product Formed by an SHS Reaction of NiO-Ni-Al System Under Microgravity Conditions
Authors (4): Sanin, V. N.; Yukhvid, V. I. ... Sachkova, N. V.
Published: 2010 in Microgravity Science and Technology
DOI: 10.1007/S12217-008-9104-6
Accession Number: WOS:000273789100007

Deposition of Composite Metallic Coating onto Al through Mechanical Impregnation followed by Thermal Treatment
Authors (4): Vadchenko, S. G.; Kovalev, D. Yu. ... Sytschev, A. E.
Published: 2010 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386210030039
Accession Number: WOS:000217525400003

Simultaneous Synthesis and Joining of a Ni-Al-Based Layer to a Mo Foil by SHS
Authors (4): Sytschev, A. E.; Vadchenko, S. G. ... Sachkova, N. V.
Published: Sep 2009 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386209030133
Accession Number: WOS:000217520700013

The effect of microgravity on the composition of SHS products of the mixture NiO plus Ni plus Al plus WC
Authors (5): Sanin, V. N.; Yukhvid, V. I. ... Shiryaeva, M. Yu.
Published: Jun 2009 in Inorganic Materials
DOI: 10.1134/S0020168509060119
Accession Number: WOS:000267041200011

Combustion Synthesis of Porous Ti-Co Alloys for Orthopedic Applications
Authors (6): Kamynina, O. K.; Gotman, I. ... Balikhina, E. N.
Published: Jun 2009 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138620902006X
Accession Number: WOS:000217519800006

Materials from Titanium-Cobalt Alloys for Hybrid Implants
Authors (10): Sytschev, A. E.; Vadchenko, S. G. ... Selezneva, I. I.
Published: Jan 2009 in Bulletin of Experimental Biology and Medicine
DOI: 10.1007/S10517-009-0428-Z
Accession Number: WOS:000266812700036

Hot Forging of MAX Compounds SHS-Produced in the Ti-Al-C System
Authors (6): Stolin, A. M.; Vrel, D. ... Sytschev, A. E.
Published: 2009 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386209030108
Accession Number: WOS:000217520700010

SHS in Microgravity: Optimistic Insight into the Future
Authors (2): Sytschev, A. E.; Merzhanov, A. G.
Published: 2009 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138620903011X
Accession Number: WOS:000217520700011

Microstructure and mechanical properties of gamma TiAl based alloys produced by combustion synthesis plus compaction route
Authors (14): Agote, I.; Coleto, J. ... Pambaguian, L.
Published: Nov 2008 in Intermetallics
DOI: 10.1016/J.INTERMET.2008.08.007
Accession Number: WOS:000261545900012

Reactive Sintering of Ti-Al and Ti-Al-Nb Consolidated Elemental Blocks for Use as Consumable Electrodes in Vacuum Arc Melting
Authors (4): Andreev, D. E.; Sanin, V. N. ... Sytschev, A. E.
Published: Jun 2008 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S106138620802009X
Accession Number: WOS:000217513600009

SHS in Microgravity: The Ti-Si-Al-C System
Authors (2): Vadchenko, S. G.; Sytschev, A. E.
Published: Jun 2008 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386208020118
Accession Number: WOS:000217513600011

POROUS TICO-HYDROXYAPATITE BIOMATERIALS
Authors (9): Kamynina, O. K.; Sytschev, A. E. ... Toporkova, A. K.
Published: 2008 in The International Journal of Artificial Organs
Accession Number: WOS:000259449700124

Preparation of gamma-TiAl Intermetallic Compounds through Self-Propagating High-Temperature Synthesis and Compaction
Authors (5): Kvanin, V. L.; Balikhina, N. T. ... Sychev, A. E.
Published: 2008 in Inorganic Materials
DOI: 10.1134/S0020168508110095
Accession Number: WOS:000262760500009

Production of gamma-TiAl based alloy by combustion synthesis plus compaction route, characterization and application
Authors (12): Agote, I.; Coleto, J. ... Pambaguian, L.
Published: 2008 in Kovove Materialy
Accession Number: WOS:000257668300004

High-Porosity TiAl Foam by Volume Combustion Synthesis
Authors (6): Kamynina, O. K.; Vadchenko, S. G. ... Sachkova, N. V.
Published: Sep 2007 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386207030065
Accession Number: WOS:000217509800006

Self-propagating combustion synthesis of intermetallic matrix composites in the ISS
Authors (11): Orru, Roberto; Licheri, Roberta ... Jarvis, David J.
Published: Sep 2007 in Microgravity Science and Technology
DOI: 10.1007/BF02919459
Accession Number: WOS:000256363400013

International Conference on Historical Aspects of SHS in Different Countries Dedicated to the 40th Anniversary of SHS
Authors (4): Grigoryan, H.; Mukasyan, A. ... Sytschev, A.
Published: 2007 in International Journal of Self-Propagating High-Temperature Synthesis
DOI: 10.3103/S1061386207040127
Accession Number: WOS:000217511300012

Low-gravity combustion synthesis:: Theoretical analysis of experimental evidences
Authors (12): Locci, A. M.; Licheri, R. ... Jarvis, D. J.
Published: Nov 2006 in AICHE Journal
DOI: 10.1002/AIC.11006
Accession Number: WOS:000241369300010

Combustion synthesis of cast intermetallic Ti-Al-Nb alloys in a centrifugal machine
Authors (4): Sanin, V; Yukhvid, V ... Andreev, D
Published: 2006 in Kovove Materialy
Accession Number: WOS:000236903100007

Self-propagating high-temperature synthesis of porous Ti-Si-Al-C based materials
Authors (3): Vadchenko, SG; Ponornarev, VI; Sychev, AE
Published: 2006 in Combustion, Explosion, and Shock Waves
DOI: 10.1007/S10573-006-0035-5
Accession Number: WOS:000236753800007

Self-propagating high-temperature synthesis of nanomaterials
Authors (2): Sytschev, AE; Merzhanov, AG
Published: 2004 in Uspekhi Khimii
DOI: 10.1002/CHIN.200428229
Accession Number: WOS:000220239200002

Influence of gravity on self-propagating high-temperature thermite reactions:: The case of Cu2O-Al and Cu2O-Cu-Al systems
Authors (7): Rogachev, AS; Sanin, VN ... Cao, G
Published: Jan 2002 in Advances in Space Research
DOI: 10.1016/S0273-1177(01)00648-2
Accession Number: WOS:000175230700003

SHS under Microgravity
Authors (6): Merzhanov, AG; Rogachev, AS ... Yukhvid, VI
Published: 2002 in Key Engineering Materials
DOI: 10.4028/WWW.SCIENTIFIC.NET/KEM.217.55
Accession Number: WOS:000175042000011

Influence of microgravity on self-propagating high-temperature synthesis of refractory inorganic compounds
Authors (7): Merzhanov, AG; Rogachev, AS ... Yukhvid, VI
Published: Mar 2001 in Cosmic Research (English Translation of Kosimicheskie Issledovaniya)
DOI: 10.1023/A:1017511631494
Accession Number: WOS:000169309800013

Self-propagating high-temperature centrifugal processing of Cu2O-Cu-Al and Cu2O-Al systems
Authors (7): Rogachev, AS; Sanin, VN ... Cao, G
Published: 2001 in Processing By Centrifugation
DOI: 10.1007/978-1-4615-0687-4_27
Accession Number: WOS:000176774900027

Combustion wave propagation during SHS of bi-layered system (Ti-2B-60wt%Cu)/(3Ti-2BN-x center dot Cu)
Authors (6): Cao, WB; Shen, WP ... Rogachev, AS
Published: 2000 in Journal of Inorganic Materials
Accession Number: WOS:000088989400016

SHS and formation of structure in composite materials in three-component Ti-Si-C,Ti-Si-N, and Ti-B-Nsystems
Authors (4): Grigoryan, AÉ; Rogachev, AS ... Levashov, EA
Published: Nov 1999 in Refractories and Industrial Ceramics
DOI: 10.1007/BF02762624
Accession Number: WOS:000088430200002

Influence of reaction mixture porosity on the effective kinetics of gasless combustion synthesis
Authors (4): Kachelmyer, CR; Varma, A ... Sytschev, AE
Published: 1998 in Industrial & Engineering Chemistry Research
DOI: 10.1021/IE9704915
Accession Number: WOS:000074075600026

Self-propagating high-temperature synthesis: First experiments in space
Authors (3): Merzhanov, AG; Rogachev, AS; Sychev, AE
Published: 1998 in Doklady Akademii Nauk
Accession Number: WOS:000076884900020

Combustion wave microstructure in heterogeneous gasless systems
Authors (6): Mukasyan, AS; Hwang, S ... Varma, A
Published: Jun 1996 in Combustion Science and Technology
DOI: 10.1080/00102209608935535
Accession Number: WOS:A1996WF99900006

Combustion-front microstructure in heterogeneous gasless media (using as an example the 5Ti+3Si system)
Authors (6): Merzhanov, AG; Mukasyan, AS ... Varma, A
Published: 1996 in Combustion, Explosion, and Shock Waves
DOI: 10.1007/BF02111567
Accession Number: WOS:A1996YA98100008

THE INFLUENCE OF UNIAXIAL LOADING ON THE MACROKINETICS OF GASLESS SYSTEM COMBUSTION
Authors (4): VADCHENKO, SG; MERZHANOV, AG ... SYCHEV, AE
Published: 1994 in Doklady Akademii Nauk
Accession Number: WOS:A1994PJ04800016

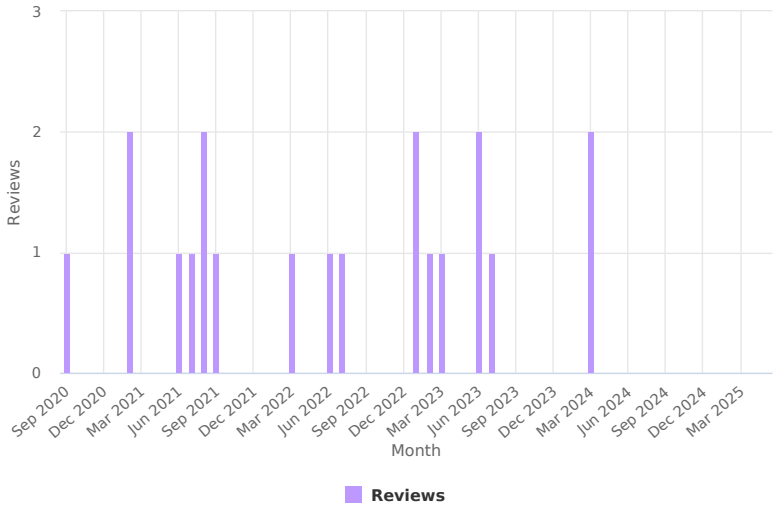
TUNGSTENLESS SOLID ALLOYS BASED ON TITANIUM CARBIDE OBTAINED BY SHS WITH A NICKEL-MOLYBDENUM BINDER
Authors (4): BUNIN, VM; BOROVINSKAYA, IP ... SYCHEV, AE
Published: 1993 in Inorganic Materials
Accession Number: WOS:A1993NC05900031

STUDY OF SOLID-SOLUTIONS BASED ON TITANOMOLYBDENUM CARBIDE OBTAINED BY SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS
Authors (4): BUNIN, VM; BOROVINSKAYA, IP ... SYCHEV, AE
Published: 1993 in Inorganic Materials
Accession Number: WOS:A1993MN49100011

OUTGASSING MACROKINETICS IN SPS
Authors (3): SHCHERBAKOV, VA; SYCHEV, AE; SHTEINBERG, AS
Published: 1986 in Combustion, Explosion, and Shock Waves
Accession Number: WOS:A1986G599400011

Verified Reviews

Review Summary



20 REVIEWS OF 14 MANUSCRIPTS

For manuscripts published from date range May 1983 - May 2025

Effect of TiC Particles on the Properties of Copper Matrix Composites
Reviewed for Inorganics

Mechanical and Microstructure Characterisation of the Hypoeutectic Cast Aluminium Alloy AlSi10Mg Manufactured by the Twin-Roll Casting Process
Reviewed for Journal of Manufacturing and Materials Processing

Study of the TIG welding process of thin-walled components made of 17-4PH steel in the aspect of weld distortion distribution
Reviewed for Materials

Combustion behavior and microstructure of TC17 alloy under oxygen enriched atmosphere
Reviewed for Metals

Research on Technology of 7075 Aluminum Alloy Processed by Variable Polarity TIG Additive Manufacturing Utilizing Nanoparticle-Reinforced Welding Wire with TiB2
Reviewed for Crystals

Effect of Annealing on the Interface and Properties of Pd/Al Composite Wires
Reviewed for Materials

Microstructure and Mechanical Properties of Hybrid AZ91 Magnesium Matrix Composite with Ti and SiC Particles
Reviewed for Materials

Materials Development Strategies Using High-Energy Ball Milling
Reviewed for Journal of Composites Science

Influencing the Size and Shape of High-Energy Ball Milled Particle Reinforced Aluminum Alloy Powder
Reviewed for Materials

Study on Multi-scale Impact Energy Release Characteristics of Fe-Al Energetic Jets
Reviewed for Materials

Effects of Process Control Agent Amount, Milling Time, and Annealing Heat Treatment on the Microstructure of AlCrCuFeNi High-Entropy Alloy Synthesized through Mechanical Alloying
Reviewed for Metals

Effect of W on the impact-induced energy release behavior of Al–Ni energetic structural materials
Reviewed for Metals

In–situ X–ray observations and microstructural characterizations for understanding combustion foaming and reaction processes to synthesize porous Al3Ti composites from Al–Ti–B4C powders
Reviewed for Advanced Engineering Materials

SLM Manufacturing Redesign of Cooling Inserts for High Production Steel Moulds and Benchmarking with Other Industrial Additive Manufacturing Strategies
Reviewed for Materials