

Dmitriy Yu Kovalev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Fast mechanical synthesis, structure evolution, and thermal stability of nanostructured CoCrFeNiCu high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022, 893, 161839.	2.8	16
2	Thermal expansion of the nanocrystalline titanium diboride. <i>Ceramics International</i> , 2022, 48, 872-878.	2.3	5
3	Engineering of strong and hard in-situ Al-Al ₃ Ti nanocomposite via high-energy ball milling and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162676.	2.8	10
4	<i>In situ</i> study of heterogeneous media combustion processes by time Resolved XRD. <i>Zavodskaya Laboratoriya Diagnostika Materialov</i> , 2022, 88, 49-61.	0.1	0
5	Mechanical alloying in the Co-Fe-Ni powder mixture: Experimental study and molecular dynamics simulation. <i>Powder Technology</i> , 2022, 399, 117187.	2.1	8
6	Effects of titanium high energy ball milling on the solid-phase reaction Ti+C. <i>Materials Chemistry and Physics</i> , 2022, 283, 126025.	2.0	6
7	Investigation of the Structure of Cyclodextrin Nitrates by the X-Ray Diffraction Method. <i>Russian Journal of Applied Chemistry</i> , 2022, 95, 32-36.	0.1	0
8	Combustion Modes of Mixtures of Nickel (II) Oxide with Titanium. <i>Fizika Goreniya I Vzryva</i> , 2021, 57, 69-72.	0.0	0
9	Subtle Details in Crystal Structure of SHS Products by DFT Calculations. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2021, 30, 15-21.	0.2	0
10	Evolution of crystal structure in high-entropy AlCoCrFeNi alloy: An in situ high-temperature X-ray diffraction study. <i>Journal of Alloys and Compounds</i> , 2021, 861, 158562.	2.8	15
11	SHS in the Si-N-O System Containing Iron Salts. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2021, 30, 65-72.	0.2	0
12	The Concentration of C(sp ³) Atoms and Properties of an Activated Carbon with over 3000 m ² /g BET Surface Area. <i>Nanomaterials</i> , 2021, 11, 1324.	1.9	11
13	Synthesis of W-Zr-Ti Alloy via Combustion in the WO ₃ -ZrO ₂ -TiO ₂ -Mg System. <i>Inorganic Materials</i> , 2021, 57, 498-502.	0.2	0
14	Thermal Stability of Medium- and High-Entropy Alloys of 3d-Transition Metals. <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 720-734.	0.5	7
15	SHS in the Cu-Se System. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2021, 30, 180-184.	0.2	1
16	Fabrication of high-entropy carbide (TiZrHfTaNb) _{0.5} by high-energy ball milling. <i>Ceramics International</i> , 2021, 47, 32626-32633.	2.3	20
17	Comprehensive Study on the Mechanism of Sulfating Roasting of Zinc Plant Residue with Iron Sulfates. <i>Materials</i> , 2021, 14, 5020.	1.3	7
18	Reduction of Mn, Cr, and V Precursors in a Wave of Flameless RDX Combustion. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2021, 30, 11-14.	0.2	1

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19	Combustion Modes of Mixtures of Copper (II) Oxide with Aluminum and Titanium. Fizika Goreniya I Vzryva, 2021, 57, 67-73.	0.0	0
20	Combustion Modes of Mixtures of Copper (II) Oxide with Aluminum and Titanium. Combustion, Explosion and Shock Waves, 2021, 57, 570-575.	0.3	0
21	Synthesis and Thermal Oxidation Stability of Nanocrystalline Niobium Diboride. Inorganic Materials, 2021, 57, 1005-1014.	0.2	4
22	Synthesis of Cu ₂ Se via Autowave Combustion of an Elemental Powder Mixture. Inorganic Materials, 2021, 57, 1124-1134.	0.2	1
23	Synthesis of Nanosized FeS, CoS and NiS Crystals in a Wave of Flameless RDX Combustion. International Journal of Self-Propagating High-Temperature Synthesis, 2021, 30, 220-224.	0.2	1
24	The Synthesis of Cast Materials Based on the MAX Phases in a Cr-Ti-Al-C System. Russian Journal of Non-Ferrous Metals, 2021, 62, 732-739.	0.2	1
25	Obtaining a High-Entropy Fe-Cr-Co-Ni-Ti Alloy by Mechanical Alloying and Electric Spark Plasma Sintering of a Powder Mixture. Russian Journal of Non-Ferrous Metals, 2021, 62, 716-722.	0.2	0
26	High-Temperature Synthesis of Cr-Mo-Al-C Materials. Inorganic Materials, 2021, 57, 1300-1306.	0.2	2
27	Synthesis of Ta ₄ HfC ₅ Ceramics with a Submicron Structure by Electro-Thermal Explosion under Pressure. Doklady Chemistry, 2021, 501, 259-263.	0.2	1
28	The Influence of Molybdenum and Titanium on Magnetic and Mechanical Properties of Fe ₃₀ Cr ₁₆ Co (Kh30K16) Powder Hard Magnetic Alloy. Steel in Translation, 2021, 51, 939-944.	0.1	0
29	Structural evolution and magnetic properties of high-entropy CuCrFeTiNi alloys prepared by high-energy ball milling and spark plasma sintering. Journal of Alloys and Compounds, 2020, 816, 152611.	2.8	29
30	Combustion synthesis of TiC-based ceramic-metal composites with high entropy alloy binder. Journal of the European Ceramic Society, 2020, 40, 2527-2532.	2.8	35
31	Synthesis, Structure and Properties of Material Based on V ₂ AlC MAX Phase. Physics of Metals and Metallography, 2020, 121, 765-771.	0.3	13
32	Composition and Crystalline Structure of Ternary Phases in the Ta-Ni-Al System. Russian Journal of Non-Ferrous Metals, 2020, 61, 303-308.	0.2	1
33	Synthesis, Structure, and Properties of Titanium Diboride Nanoparticles. Inorganic Materials, 2020, 56, 1127-1132.	0.2	2
34	X-Ray Diffraction Analysis of the Amorphous-Crystalline Phase Transition in Ni. Technical Physics, 2020, 65, 1652-1658.	0.2	0
35	Assembling the Puzzle of Taxifolin Polymorphism. Molecules, 2020, 25, 5437.	1.7	12
36	Mo ₅ SiB ₂ -Based Ceramics by Forced SHS Compaction and Hot Pressing of SHS-Produced Powders: Features of Phase-Formation Processes. International Journal of Self-Propagating High-Temperature Synthesis, 2020, 29, 143-149.	0.2	1

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37	High-Energy Ball Milling and Spark Plasma Sintering of the CoCrFeNiAl High-Entropy Alloy. <i>Metals</i> , 2020, 10, 1489.	1.0	11
38	Structure and properties of MoSi ₂ -MeB ₂ -SiC (Me = Zr, Hf) ceramics produced by combination of SHS and HP techniques. <i>Ceramics International</i> , 2020, 46, 28725-28734.	2.3	16
39	High temperature X-ray powder diffraction study of boron carbide crystals of different composition. <i>Journal of Solid State Chemistry</i> , 2020, 290, 121579.	1.4	2
40	Density Functional Theory Calculations of the Stability and Statistical Disorder in Crystals of the Kappa Phase of Me ₃ W ₁₀ C ₃ (Me = Fe, Co, Ni). <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 1369-1374.	0.1	0
41	Synthesis of the Ti ₃ SiC ₂ MAX Phase via Combustion in the TiO ₂ -Mg-Si-C System. <i>Inorganic Materials</i> , 2020, 56, 1211-1216.	0.2	2
42	X-Ray Diffraction Study of a New Phase in the Ni-W-C System. <i>Inorganic Materials</i> , 2020, 56, 572-576.	0.2	1
43	Preparation of Ti ₂ AlC and Ti ₃ AlC ₂ MAX Phases by Self-Propagating High-Temperature Synthesis with the Reduction Stage. <i>Russian Journal of Non-Ferrous Metals</i> , 2020, 61, 554-558.	0.2	2
44	Ti-W Composite by Magnesiothermic SHS and Acid Leaching. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2020, 29, 36-41.	0.2	0
45	DFT Driven design of hierarchically structured, strong and highly conductive alloys in Cu-Ti system via in situ hydration - re-oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154823.	2.8	2
46	Synthesis of Titanium Diboride Nanoparticles via the Reaction of TiCl ₄ with NaBH ₄ in NaCl-KCl Ionic Melt. <i>Russian Journal of General Chemistry</i> , 2020, 90, 924-926.	0.3	2
47	One-step synthesis of pure β -FeNi alloy by reductive sol-gel combustion route: mechanism and properties. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 310-321.	1.1	18
48	Formation of New Intermetallic Phases in the Ta-Ni-Al System. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 271-276.	0.1	0
49	Synthesis of Vanadium Diboride Nanoparticles via Reaction of VCl ₃ with NaBH ₄ . <i>Inorganic Materials</i> , 2020, 56, 126-131.	0.2	4
50	Thermal Expansion of Micro- and Nanocrystalline ZrB ₂ Powders. <i>Inorganic Materials</i> , 2020, 56, 258-264.	0.2	3
51	Self-Propagating High-Temperature Synthesis of MgAl ₂ O ₄ Spinel. <i>Inorganic Materials</i> , 2020, 56, 142-150.	0.2	9
52	Synthesis of Nb ₂ AlC MAX Phase by SHS Metallurgy. <i>Russian Journal of Non-Ferrous Metals</i> , 2020, 61, 126-131.	0.2	7
53	Spall Strength of Shock-Heated Zirconium and Phase Diagram of Its High-Pressure Polymorphic Modification. <i>Physics of the Solid State</i> , 2020, 62, 65-73.	0.2	2
54	Single crystals of ferroelectric lithium niobate-tantalate LiNb _{1-x} O ₃ solid solutions for high-temperature sensor and actuator applications. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 1071-1076.	0.5	17

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55	Estimation of Enthalpy of Formation of TiCu by Density Functional Method. Physics of Metals and Metallography, 2020, 121, 1188-1192.	0.3	4
56	Obtaining of $Ti_{2/3}AlC$ and $Ti_{3/2}AlC_2$ MAX phases by SHS with reduction stage. Izvestiya Vuzov Poroshkovaya Metallurgiya I Funktsionalnye Pokrytiya, 2020, , 36-40.	0.0	0
57	Phase Formation in the SHS of a Ti-B Mixture with the Addition of Si ₃ N ₄ . Combustion, Explosion and Shock Waves, 2020, 56, 648-654.	0.3	9
58	Cu-Matrix Composites by Reactive Spark Plasma Sintering of Mechanoactivated Cu-Si-C Powder Mixtures. International Journal of Self-Propagating High-Temperature Synthesis, 2020, 29, 233-236.	0.2	2
59	Thermal Expansion of Micro- and Nanocrystalline HfB ₂ . High Temperature, 2019, 57, 32-36.	0.1	9
60	Processing of Ni-Al intermetallic with 2D carbon components. Materials Chemistry and Physics, 2019, 238, 121898.	2.0	7
61	Structure and properties of equiatomic CoCrFeNiMn alloy fabricated by high-energy ball milling and spark plasma sintering. Journal of Alloys and Compounds, 2019, 805, 1237-1245.	2.8	41
62	Time-Resolved X-Ray Diffraction in SHS Research and Related Areas: An Overview. International Journal of Self-Propagating High-Temperature Synthesis, 2019, 28, 114-123.	0.2	13
63	Estimating the Stability of the Structure of MAX Phases of Ti ₃ AlC ₂ ... Composition on the Basis of Quantum-Chemical Calculations. Russian Journal of Physical Chemistry A, 2019, 93, 1277-1280.	0.1	1
64	Phase Formation in the Ti-Al-C System during SHS. Russian Journal of Non-Ferrous Metals, 2019, 60, 61-67.	0.2	8
65	TiZrNiCuAl and TiNbNiCuAl Alloys by Thermal Explosion and High-Energy Ball Milling. International Journal of Self-Propagating High-Temperature Synthesis, 2019, 28, 137-142.	0.2	2
66	Ti-Zr Alloy by Magnesiothermic Reduction and Acid Leaching: Influence of Process Conditions. International Journal of Self-Propagating High-Temperature Synthesis, 2019, 28, 187-190.	0.2	1
67	Feasibility of Producing a Ti-Zr Alloy via Combustion in the TiO ₂ -ZrO ₂ -Mg System. Inorganic Materials, 2019, 55, 185-190.	0.2	3
68	Preparation of ZrB ₂ by Reacting ZrCl ₄ with NaBH ₄ in Molten Potassium Bromide. Inorganic Materials, 2019, 55, 458-461.	0.2	2
69	Influence of the Preparation Method on Amorphous-Crystalline Transition in Fe ₈₄ B ₁₆ Alloy. Technical Physics, 2019, 64, 1808-1813.	0.2	1
70	High-Temperature X-ray Diffraction Study of the Thermal Expansion and Stability of Nanocrystalline VB ₂ . Inorganic Materials, 2019, 55, 1111-1117.	0.2	4
71	Boron Carbide Secrets. Russian Journal of General Chemistry, 2019, 89, 2069-2074.	0.3	2
72	Direct Conversion of Chemical Energy into Electrical Energy in the Combustion of a Thin Three-Layer Charge. Combustion, Explosion and Shock Waves, 2019, 55, 678-685.	0.3	1

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73	Self-propagating high-temperature synthesis of advanced ceramics MoSi ₂ -HfB ₂ -MoB. <i>Ceramics International</i> , 2019, 45, 96-107.	2.3	43
74	High-temperature synthesis of cast materials based on Nb ₂ AlC MAX phase. <i>Ceramics International</i> , 2019, 45, 2689-2691.	2.3	14
75	Combustion synthesis of ZrB ₂ -TaB ₂ -TaSi ₂ ceramics with microgradient grain structure and improved mechanical properties. <i>Ceramics International</i> , 2019, 45, 1503-1512.	2.3	22
76	Nb ₂ AlC MAX phase synthesis by SHS metallurgy. <i>Izvestiya Vuzov Poroshkovaya Metallurgiya i Funktsional'nye Pokrytiya</i> , 2019, , 42-48.	0.0	2
77	Formation of new intermetallic phases in the Ta-Ni-Al system. <i>Perspektivnye Materialy</i> , 2019, , 5-13.	0.1	3
78	Mechanochemical Synthesis of Dy ₂ TiO ₅ Single-Phase Crystalline Nanopowders and Investigation of Their Properties. <i>Inorganic Materials: Applied Research</i> , 2018, 9, 291-296.	0.1	4
79	Metal-Doped MgB ₂ by Thermal Explosion: A TRXRD Study. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2018, 27, 18-25.	0.2	3
80	Combustion synthesis of high-temperature ZrB ₂ -SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2792-2801.	2.8	26
81	Crystallization of amorphous Cu ₅₀ Ti ₅₀ alloy prepared by high-energy ball milling. <i>Journal of Alloys and Compounds</i> , 2018, 741, 575-579.	2.8	32
82	Crystallization of a Mechanically Activated CuTi Alloy. <i>Doklady Physics</i> , 2018, 63, 45-49.	0.2	2
83	Self-sustained exothermal waves in amorphous and nanocrystalline films: A comparative study. <i>Journal of Alloys and Compounds</i> , 2018, 749, 44-51.	2.8	10
84	Self-propagating high-temperature synthesis of nanocomposite ceramics TaSi ₂ -SiC with hierarchical structure and superior properties. <i>Journal of the European Ceramic Society</i> , 2018, 38, 433-443.	2.8	36
85	Conductive TiB ₂ -AlN-BN-Based Composite SHS Ceramics. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 658-663.	0.2	2
86	Determination of the Thermal Expansion Coefficient of Boron Carbide B ₄ C. <i>High Temperature</i> , 2018, 56, 668-672.	0.1	9
87	Density Functional Calculations for Disordered Boron Carbide Crystals. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 2341-2344.	0.1	1
88	Transformations of Iron (III) Precursors in a Wave of Flameless RDX Combustion. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2018, 27, 162-166.	0.2	6
89	Formation of Acquired Grain-Growth Inhibitor in the Production of Anisotropic Electrical Steel. <i>Steel in Translation</i> , 2018, 48, 541-546.	0.1	1
90	Electrically Conducting Ceramics Based on Al ₂ O ₃ -AlN-TiB ₂ . <i>High Temperature</i> , 2018, 56, 527-531.	0.1	1

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91	Synthesis of Zirconium Diboride Nanoparticles by the Reaction of ZrCl ₄ with NaBH ₄ in an Ionic Potassium Bromide Melt. Russian Journal of General Chemistry, 2018, 88, 1757-1758.	0.3	3
92	Crystallization of Amorphous Antimony at Room Temperature: Non-Uniqueness of Patterning Route. International Journal of Self-Propagating High-Temperature Synthesis, 2018, 27, 180-183.	0.2	2
93	Synthesis of the Ti ₂ AlC MAX Phase with a Reduction Step via Combustion of a TiO ₂ + Mg + Al + C Mixture. Inorganic Materials, 2018, 54, 949-952.	0.2	8
94	Features of Production and High-Temperature Oxidation of SHS Ceramics Based on Zirconium Boride and Zirconium Silicide. Russian Journal of Non-Ferrous Metals, 2018, 59, 311-322.	0.2	3
95	Composition and Structure of (Zr _{0.37} Ti _{0.63}) ₃ AlC ₂ MAX Phase Crystals Prepared by Self-Propagating High-Temperature Synthesis. Inorganic Materials, 2018, 54, 953-956.	0.2	2
96	Solution combustion synthesis of nano-catalysts with a hierarchical structure. Journal of Catalysis, 2018, 364, 112-124.	3.1	29
97	Synthesis of a new MAX phase in the Ti-Zr-Al-C system. Mendeleev Communications, 2017, 27, 59-60.	0.6	7
98	New Insight into the Formation of Hybrid Perovskite Nanowires via Structure Directing Adducts. Chemistry of Materials, 2017, 29, 587-594.	3.2	68
99	Oxynitrides by aluminothermic SHS in nitrogen gas: Influence of nitrogen pressure. International Journal of Self-Propagating High-Temperature Synthesis, 2017, 26, 71-74.	0.2	1
100	Combustion synthesis in the Ni-Al-Nb ternary system: A Time-Resolved X-ray Diffraction study. Results in Physics, 2017, 7, 1878-1882.	2.0	5
101	Reaction synthesis of the Ti ₂ AlN MAX-phase. Russian Journal of Non-Ferrous Metals, 2017, 58, 303-307.	0.2	14
102	Dynamics of phase formation during the synthesis of magnesium diboride from elements in thermal explosion mode. Russian Journal of Non-Ferrous Metals, 2017, 58, 396-404.	0.2	3
103	Ignition and phase formation in the Zr-Al-C system. Combustion, Explosion and Shock Waves, 2017, 53, 171-175.	0.3	5
104	Time-resolved X-ray diffraction study of the transition of an amorphous TiCu alloy to the crystalline state. Doklady Physics, 2017, 62, 111-114.	0.2	6
105	The features of combustion synthesis of aluminum and carbon doped magnesium diboride. Physica C: Superconductivity and Its Applications, 2017, 541, 1-9.	0.6	5
106	X-ray diffraction study of self-propagating high-temperature synthesis in the Zr-Al-C system. Russian Journal of Inorganic Chemistry, 2017, 62, 1638-1644.	0.3	7
107	FEATURES OF PRODUCTION AND HIGH-TEMPERATURE OXIDATION OF SHS-CERAMICS BASED ON ZIRCONIUM BORIDE AND ZIRCONIUM SILICIDE. Izvestiya Vuzov Poroshkovaya Metallurgiya I Funktsionalnye Pokrytiya, 2017, , 29-41.	0.0	4
108	PHASE FORMATION IN Ti-Al-C SYSTEM DURING SHS. Izvestiya Vuzov Poroshkovaya Metallurgiya I Funktsionalnye Pokrytiya, 2017, , 11-18.	0.0	2

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109	Time-Resolved X-Ray and Synchrotron-Ray Diffraction. , 2017, , 388-391.		0
110	Influence of the synthesis conditions of boron carbide on its structural parameters. Russian Journal of Non-Ferrous Metals, 2016, 57, 604-609.	0.2	0
111	Combustion of Ti-Al-C compacts in air and helium: A TRXRD study. International Journal of Self-Propagating High-Temperature Synthesis, 2016, 25, 30-34.	0.2	17
112	Preparation of Ti ₂ AlN by reactive sintering. International Journal of Self-Propagating High-Temperature Synthesis, 2016, 25, 35-38.	0.2	6
113	The kinetics and mechanism of combusted Zr-B-Si mixtures and the structural features of ceramics based on zirconium boride and silicide. Ceramics International, 2016, 42, 16758-16765.	2.3	18
114	SHS in the Zr-Al-C system: A time-resolved XRD study. International Journal of Self-Propagating High-Temperature Synthesis, 2016, 25, 149-154.	0.2	3
115	Phase formation dynamics upon thermal explosion synthesis of magnesium diboride. Ceramics International, 2016, 42, 2951-2959.	2.3	14
116	Exothermic Self-Sustained Waves with Amorphous Nickel. Journal of Physical Chemistry C, 2016, 120, 5827-5838.	1.5	23
117	Structural features and magnetic behavior of nanocrystalline powders of terbium oxide prepared by the thermal decomposition of terbium acetate in air. Journal of Alloys and Compounds, 2016, 657, 163-173.	2.8	13
118	Magnesiothermic SHS of boron carbide in conditions of temperature gradients. International Journal of Self-Propagating High-Temperature Synthesis, 2015, 24, 216-219.	0.2	3
119	Experimental investigation of electrical and optical phenomena during combustion of two-layer energetic condensed (Zr + CuO + LiF)- (Zr + BaCrO ₄ + LiF) systems. Inorganic Materials: Applied Research, 2015, 6, 542-546.	0.1	1
120	The features of combustion and structure formation of ceramic materials in the Ti-C-Ti ₃ PO _x -CaO system. Ceramics International, 2015, 41, 8177-8185.	2.3	16
121	Self-propagating high-temperature synthesis in the Ti-Si-C system: Features of product patterning. Nanotechnologies in Russia, 2015, 10, 67-74.	0.7	19
122	Production of ultra-high temperature carbide (Ta,Zr)C by self-propagating high-temperature synthesis of mechanically activated mixtures. Ceramics International, 2015, 41, 8885-8893.	2.3	39
123	SHS of boron carbide: Influence of combustion temperature. International Journal of Self-Propagating High-Temperature Synthesis, 2015, 24, 33-37.	0.2	5
124	Influence of synthesis conditions on the structure and phase formation during the SHS hydration of titanium. Russian Journal of Non-Ferrous Metals, 2015, 56, 86-91.	0.2	1
125	Silicon carbide ceramics SHS-produced from mechanoactivated Si-C-B mixtures. International Journal of Self-Propagating High-Temperature Synthesis, 2015, 24, 119-127.	0.2	14
126	Flameless Combustion Synthesis of Ni and Ag Nanoparticles in Ballasted Systems: A Time-Resolved X-ray Diffraction Study. Propellants, Explosives, Pyrotechnics, 2015, 40, 88-94.	1.0	9

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127	SHS of MAX compounds in the Ti-Si-C system: Influence of mechanical activation. International Journal of Self-Propagating High-Temperature Synthesis, 2014, 23, 141-144.	0.2	11
128	Formation of nanolaminate structures in the Ti-Si-C system: A crystallochemical study. International Journal of Self-Propagating High-Temperature Synthesis, 2014, 23, 217-221.	0.2	20
129	SHS hydrogenation of group IV metals as studied by time-resolved XRD. International Journal of Self-Propagating High-Temperature Synthesis, 2014, 23, 198-202.	0.2	3
130	Formation of nanosized particles of nickel and silver in a wave of flameless combustion of cellulose nitrate in ballasted systems. Doklady Physical Chemistry, 2014, 458, 133-137.	0.2	3
131	Mechanical activation of a hard magnetic Fe-Cr-Co alloy powder charge. Russian Metallurgy (Metally), 2014, 2014, 555-560.	0.1	3
132	In Situ Preparation of Highly Stable Ni-Based Supported Catalysts by Solution Combustion Synthesis. Journal of Physical Chemistry C, 2014, 118, 26191-26198.	1.5	58
133	The features of combustion and structure formation of ceramic materials in the Cr-Al-Si system. Ceramics International, 2014, 40, 16299-16308.	2.3	10
134	SHS in the Ni-Al system: A TRXRD study of product patterning. International Journal of Self-Propagating High-Temperature Synthesis, 2014, 23, 101-105.	0.2	6
135	Self-propagating high-temperature synthesis of advanced ceramics in the Mo-Si-B system: Kinetics and mechanism of combustion and structure formation. Ceramics International, 2014, 40, 6541-6552.	2.3	51
136	2-dimensional GEM detector with FEE based on the nXYTER ASIC. Journal of Instrumentation, 2014, 9, C09026-C09026.	0.5	1
137	SHS hydrogenation of titanium: Some structural and kinetic features. International Journal of Self-Propagating High-Temperature Synthesis, 2013, 22, 114-118.	0.2	8
138	Deposition of Ni-Al coatings onto copper by mechanical/heat treatment. International Journal of Self-Propagating High-Temperature Synthesis, 2013, 22, 103-109.	0.2	3
139	Combustion synthesis in the Ni-Al-W system: Some structural features. International Journal of Self-Propagating High-Temperature Synthesis, 2013, 22, 110-113.	0.2	4
140	Behavior of the Ti-Al system during mechanical activation. International Journal of Self-Propagating High-Temperature Synthesis, 2013, 22, 56-59.	0.2	7
141	Solution combustion synthesis: Dynamics of phase formation for highly porous nickel. Doklady Physical Chemistry, 2013, 449, 48-51.	0.2	11
142	Influence of the high energy ball milling on structure and reactivity of the Ni+Al powder mixture. Journal of Alloys and Compounds, 2013, 577, 600-605.	2.8	75
143	SHS of TiC-TiNi composites: Effect of initial temperature and nanosized refractory additives. International Journal of Self-Propagating High-Temperature Synthesis, 2012, 21, 202-211.	0.2	6
144	SHS of graded Ti-Al-C ceramics: Composition of transition layers. International Journal of Self-Propagating High-Temperature Synthesis, 2012, 21, 231-235.	0.2	3

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145	Regular features of combustion of CaO ₂ /Al/Ti/Cr/B hybrid mixtures. <i>Combustion, Explosion and Shock Waves</i> , 2011, 47, 671-676.	0.3	8
146	Cast silicides of molybdenum, tungsten, and niobium by combustion synthesis. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2011, 20, 100-106.	0.2	6
147	Effect of mechanical activation on thermal explosion in Ni-Al mixtures. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2010, 19, 120-125.	0.2	27
148	Deposition of composite metallic coating onto Al through mechanical impregnation followed by thermal treatment. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2010, 19, 178-185.	0.2	0
149	Thermal decomposition of TiH ₂ : A TRXRD study. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2010, 19, 253-257.	0.2	16
150	Criteria of the Critical State of the Ni-Al System during Mechanical Activation. <i>Combustion, Explosion and Shock Waves</i> , 2010, 46, 457-463.	0.3	14
151	Dynamics of phase transformation during thermal explosion in the Al-Ni system: Influence of mechanical activation. <i>Physica B: Condensed Matter</i> , 2010, 405, 778-784.	1.3	91
152	Effect of heat release conditions on the phase composition of the combustion products of a Fe ₂ O ₃ /TiO ₂ /Al/C thermite mixture. <i>Combustion, Explosion and Shock Waves</i> , 2008, 44, 405-409.	0.3	3
153	Dynamics of phase formation during combustion of Zr and Hf in air. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2007, 16, 169-174.	0.2	7
154	Phase constitution of the combustion products of thermite mixtures modified by titanium oxide. <i>Combustion, Explosion and Shock Waves</i> , 2007, 43, 674-681.	0.3	3
155	On the mechanism of heterogeneous reaction and phase formation in Ti/Al multilayer nanofilms. <i>Acta Materialia</i> , 2005, 53, 1225-1231.	3.8	114
156	Combustion of a Fe ₂ O ₃ -TiO ₂ -Al-C Powder Mixture in the SHS Regime and the Structure of the Combustion Products. <i>Combustion, Explosion and Shock Waves</i> , 2005, 41, 414-420.	0.3	6
157	Equilibrium of Products of Self-Propagating High-Temperature Synthesis. <i>Doklady Physical Chemistry</i> , 2004, 394, 34-38.	0.2	16
158	Title is missing!. <i>Combustion, Explosion and Shock Waves</i> , 2001, 37, 673-677.	0.3	2
159	Autowave Propagation of Exothermic Reactions in Ti-Al Thin Multilayer Films. <i>Doklady Physical Chemistry</i> , 2001, 381, 283-287.	0.2	13
160	The mechanism of formation of copper aluminide in the thermal explosion mode. <i>Russian Chemical Bulletin</i> , 2000, 49, 1954-1959.	0.4	3
161	Anomalous Hall effect in granular Fe/SiO ₂ films in the tunneling-conduction regime. <i>JETP Letters</i> , 1999, 70, 90-96.	0.4	51