

Dmitri Moskovskikh

List of Publications by Year in descending order

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72
papers

1,391
citations

279701

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395590

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72
all docs

72
docs citations

72
times ranked

1189
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase stability and mechanical properties of carbide solid solutions with 2-5 principal metals. Computational Materials Science, 2022, 201, 110869.	1.4	20
2	Reactive spark plasma sintering of exothermic systems: A critical review. Ceramics International, 2022, 48, 2988-2998.	2.3	28
3	Engineering of strong and hard in-situ Al-Al ₃ Ti nanocomposite via high-energy ball milling and spark plasma sintering. Journal of Alloys and Compounds, 2022, 895, 162676.	2.8	10
4	WO ₃ -graphene-Cu nanocomposites for CO, NO ₂ and acetone gas sensors. Nano Structures Nano Objects, 2022, 29, 100824.	1.9	10
5	Thermophysical properties of tantalum carbide (TaC) within 2000-5500 K temperature range. Ceramics International, 2022, 48, 19655-19661.	2.3	5
6	Low-temperature synthesis of ultra-high-temperature HfC and HfCN nanoparticles. Materialia, 2022, 22, 101415.	1.3	5
7	Fabrication and oxidation resistance of the hafnium carbonitride-Silicon carbide composites. Ceramics International, 2022, 48, 23870-23877.	2.3	7
8	Influence of pulsed direct current on the growth rate of intermetallic phases in the Ni-Al system during reactive spark plasma sintering. Scripta Materialia, 2022, 216, 114759.	2.6	18
9	Comparison of Conventional and Flash Spark Plasma Sintering of Cu-Cr Pseudo-Alloys: Kinetics, Structure, Properties. Metals, 2021, 11, 141.	1.0	17
10	Mechanochemical synthesis and spark plasma sintering of hafnium carbonitride ceramics. Advanced Powder Technology, 2021, 32, 385-389.	2.0	13
11	Mechanochemical synthesis and thermoelectric properties of TiFe ₂ Sn Heusler alloy. Intermetallics, 2021, 133, 107195.	1.8	8
12	Recycling of iron-rich sediment for surface modification of filters for underground water deironing. Journal of Environmental Chemical Engineering, 2021, 9, 105712.	3.3	24
13	Investigation of Thermophysical Properties of Zr-Based Metallic Glass-Polymer Composite. Metals, 2021, 11, 1412.	1.0	5
14	Ultra-high-temperature tantalum-hafnium carbonitride ceramics fabricated by combustion synthesis and spark plasma sintering. Ceramics International, 2021, 47, 30043-30050.	2.3	12
15	Synthesis of TaNbHfZrW-Based Nanopowders by Thermolysis of Transition Metal Halides in the Form of Dry Mixtures and Gels. Physical Mesomechanics, 2021, 24, 684-691.	1.0	0
16	Reactive, nonreactive, and flash spark plasma sintering of Al ₂ O ₃ /SiC composites-A comparative study. Journal of the American Ceramic Society, 2020, 103, 520-530.	1.9	30
17	Ceramics from self-sustained reactions: Recent advances. Journal of the European Ceramic Society, 2020, 40, 2512-2526.	2.8	11
18	Effect of the residual water content in gels on solution combustion synthesis temperature. Journal of Sol-Gel Science and Technology, 2020, 93, 251-261.	1.1	20

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19	CO oxidation and organic dyes degradation over graphene@Cu and graphene@CuNi catalysts obtained by solution combustion synthesis. <i>Scientific Reports</i> , 2020, 10, 16104.	1.6	25
20	TiAl-Based Materials by In Situ Selective Laser Melting of Ti/Al Reactive Composites. <i>Metals</i> , 2020, 10, 1505.	1.0	5
21	Structural Features of High-Entropy HfTaTiNbZr Alloy Fabricated by High-Energy Ball Milling. <i>Russian Journal of Non-Ferrous Metals</i> , 2020, 61, 421-428.	0.2	1
22	Extremely hard and tough high entropy nitride ceramics. <i>Scientific Reports</i> , 2020, 10, 19874.	1.6	65
23	High-entropy (HfTaTiNbZr)C and (HfTaTiNbMo)C carbides fabricated through reactive high-energy ball milling and spark plasma sintering. <i>Ceramics International</i> , 2020, 46, 19008-19014.	2.3	82
24	Bulk Nb3Al intermetallic compound: Synthesis and high-temperature properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 790, 139715.	2.6	5
25	Fabrication of ultra-high-temperature nonstoichiometric hafnium carbonitride via combustion synthesis and spark plasma sintering. <i>Ceramics International</i> , 2020, 46, 16068-16073.	2.3	34
26	Microstructure and Hardness Evolution of Al8Zn7Ni3Mg Alloy after Casting at very Different Cooling Rates. <i>Metals</i> , 2020, 10, 762.	1.0	5
27	Effect of Hot Rolling on the Microstructure and Mechanical Properties of a Ti-15Mo/TiB Metal-Matrix Composite. <i>Metals</i> , 2020, 10, 40.	1.0	22
28	Two-Layer Nanocomposite TiC-Based Coatings Produced by a Combination of Pulsed Cathodic Arc Evaporation and Vacuum Electro-Spark Alloying. <i>Materials</i> , 2020, 13, 547.	1.3	7
29	Graphene@Metal Nanocomposites by Solution Combustion Synthesis. <i>Inorganic Chemistry</i> , 2020, 59, 6550-6565.	1.9	24
30	Refractory High-Entropy HfTaTiNbZr-Based Alloys by Combined Use of Ball Milling and Spark Plasma Sintering: Effect of Milling Intensity. <i>Metals</i> , 2020, 10, 1268.	1.0	26
31	Structural features of HfTaTiNbZr high-entropy alloy fabricated by high energy ball milling. <i>Russian Journal of Non-Ferrous Metals</i> , 2020, , 42-50.	0.0	0
32	Cu-Matrix Composites by Reactive Spark Plasma Sintering of Mechanoactivated Cu@SiC Powder Mixtures. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2020, 29, 233-236.	0.2	2
33	Structure and properties of equiatomic CoCrFeNiMn alloy fabricated by high-energy ball milling and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019, 805, 1237-1245.	2.8	41
34	Experimental studies of the fundamental mechanism for phase formation in reactive solutions toward creation of the functional materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 558, 012039.	0.3	0
35	Nickel sulphide concentrate processing via low-temperature calcination with sodium chloride: Part 2 @ Chemistry and mechanism of interaction. <i>Minerals Engineering</i> , 2019, 143, 106029.	1.8	6
36	Shock compressibility of polycrystalline nickel aluminide. <i>High Pressure Research</i> , 2019, 39, 471-479.	0.4	1

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37	Simulation of Field Assisted Sintering of Silicon Germanium Alloys. <i>Materials</i> , 2019, 12, 570.	1.3	12
38	Production of Rounded Reactive Composite Ti/Al Powders for Selective Laser Melting by High-Energy Ball Milling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1241-1247.	1.0	9
39	Nickel sulphide concentrate processing via low-temperature calcination with sodium chloride. Part 1 – Identification of interaction products. <i>Minerals Engineering</i> , 2019, 134, 37-53.	1.8	16
40	Study of structure of copper-based composite materials during the spark plasma sintering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 558, 012024.	0.3	1
41	Self-propagating high-temperature synthesis of Fe ₂ TiSn based Heusler alloys with following spark plasma sintering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 558, 012042.	0.3	1
42	Mechanical Behavior and Microstructure Evolution of a Ti-15Mo/TiB Titanium Matrix Composite during Hot Deformation. <i>Metals</i> , 2019, 9, 1175.	1.0	22
43	High porous cellular materials by spray solution combustion synthesis and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019, 779, 557-565.	2.8	17
44	Reactive spark plasma sintering and thermoelectric properties of Nd-substituted BiCuSeO oxyselenides. <i>Journal of Alloys and Compounds</i> , 2019, 785, 96-104.	2.8	18
45	Thermal stability and strain sensitivity of nanostructured aluminum titanate (Al ₂ TiO ₅). <i>Materials Chemistry and Physics</i> , 2019, 223, 202-208.	2.0	34
46	The Solid Flame Phenomenon: A Novel Perspective. <i>Advanced Engineering Materials</i> , 2018, 20, 1701065.	1.6	23
47	Thermoelectric properties and cost optimization of spark plasma sintered n-type Si _{0.9} Ge _{0.1} - Mg ₂ Si nanocomposites. <i>Scripta Materialia</i> , 2018, 146, 295-299.	2.6	15
48	Mesoporous metal - silica materials: Synthesis, catalytic and thermal properties. <i>Microporous and Mesoporous Materials</i> , 2018, 257, 175-184.	2.2	18
49	Structure and Thermal Properties of an Al-Based Metallic Glass-Polymer Composite. <i>Metals</i> , 2018, 8, 1037.	1.0	8
50	Molybdenum recovery from molybdenite concentrates by low-temperature roasting with sodium chloride. <i>International Journal of Mineral Processing</i> , 2017, 161, 13-20.	2.6	24
51	Chemistry and Mechanism of Interaction Between Molybdenite Concentrate and Sodium Chloride When Heated in the Presence of Oxygen. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 878-888.	1.0	4
52	Influence of chromium in nanocrystalline copper-chromium pseudoalloy on its structure and properties. <i>Nanotechnologies in Russia</i> , 2017, 12, 40-48.	0.7	11
53	Preparation of copper-molybdenum nanocrystalline pseudoalloys using a combination of mechanical activation and spark plasma sintering techniques. <i>Russian Journal of Physical Chemistry B</i> , 2017, 11, 173-179.	0.2	12
54	Bulk boron carbide nanostructured ceramics by reactive spark plasma sintering. <i>Ceramics International</i> , 2017, 43, 8190-8194.	2.3	35

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55	Investigation of structure and thermal properties in composite materials based on metallic glasses with small addition of polytetrafluoroethylene. <i>Journal of Alloys and Compounds</i> , 2017, 707, 264-268.	2.8	10
56	Structure and transport properties of the spark plasma sintered barium cerate based proton conductor. <i>Ceramics International</i> , 2017, 43, 14905-14914.	2.3	11
57	Preparation and study of the thermoelectric properties of Fe ₂ TiSn _{1-x} Si _x Heusler alloys. <i>Semiconductors</i> , 2017, 51, 891-893.	0.2	15
58	Enhanced thermoelectric figure of merit of p-type Si _{0.8} Ge _{0.2} nanostructured spark plasma sintered alloys with embedded SiO ₂ nano-inclusions. <i>Scripta Materialia</i> , 2017, 127, 63-67.	2.6	31
59	Spark Plasma Sintering of Titanium Spherical Particles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2725-2731.	1.0	29
60	Mechanochemical synthesis of methylammonium lead iodide perovskite. <i>Journal of Materials Science</i> , 2016, 51, 9123-9130.	1.7	35
61	Influence of high-energy ball milling on electrical resistance of Cu and Cu/Cr nanocomposite materials produced by Spark Plasma Sintering. <i>Journal of Alloys and Compounds</i> , 2016, 688, 468-474.	2.8	25
62	Thermoelectric Properties of n-Type Si _{0.8} Ge _{0.2} -FeSi ₂ Multiphase Nanostructures. <i>Journal of Electronic Materials</i> , 2016, 45, 3427-3432.	1.0	8
63	Silicon carbide ceramics: Mechanical activation, combustion and spark plasma sintering. <i>Ceramics International</i> , 2016, 42, 12686-12693.	2.3	34
64	Effect of mechanical activation on thermal and electrical conductivity of sintered Cu, Cr, and Cu/Cr composite powders. <i>Doklady Physics</i> , 2016, 61, 257-260.	0.2	13
65	Experimental investigation of milling regimes in planetary ball mill and their influence on structure and reactivity of gasless powder exothermic mixtures. <i>Powder Technology</i> , 2015, 274, 44-52.	2.1	73
66	Influence of high-energy ball milling on reaction kinetics in the Ni-Al system: An electrothermographic study. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2015, 24, 21-28.	0.2	18
67	Optimization of ball-milling process for preparation of Si-Ge nanostructured thermoelectric materials with a high figure of merit. <i>Scripta Materialia</i> , 2015, 96, 9-12.	2.6	45
68	Spark plasma sintering of SiC powders produced by different combustion synthesis routes. <i>Journal of the European Ceramic Society</i> , 2015, 35, 477-486.	2.8	31
69	Bulk Cu-Cr nanocomposites by high-energy ball milling and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2014, 617, 39-46.	2.8	56
70	Self-propagating high-temperature synthesis of silicon carbide nanopowders. <i>Doklady Physical Chemistry</i> , 2013, 449, 41-43.	0.2	25
71	Direct Combustion Synthesis of Silicon Carbide Nanopowder from the Elements. <i>Journal of the American Ceramic Society</i> , 2013, 96, 111-117.	1.9	58
72	Thermal Properties of Si Mechanically Alloyed with FeSi ₂ and CrSi ₂ . <i>Applied Mechanics and Materials</i> , 0, 799-800, 207-211.	0.2	0