

Maisam Jalaly

List of Publications by Year in descending order

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41
papers

789
citations

430442

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886
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation mechanism of high-entropy spinel thin film and its mechanical and magnetic properties: Linking high-entropy alloy to high-entropy ceramic. <i>Applied Surface Science</i> , 2022, 576, 151719.	3.1	21
2	Self-assembly synthesis of 3D graphene/nano-Fe ₃ O ₄ hybrid aerogels with improved mechanical and thermal properties. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163718.	2.8	5
3	Engineered graphene-based mixed matrix membranes to boost CO ₂ separation performance: Latest developments and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112294.	8.2	22
4	Performance improvement of cement paste loaded with MWCNTs/magnetite nanocomposite. <i>Advances in Cement Research</i> , 2021, 33, 357-366.	0.7	2
5	On the desalination performance of multi-layer graphene membranes; A molecular dynamics study. <i>Computational Materials Science</i> , 2021, 191, 110335.	1.4	4
6	Thermal resistance analysis of hybrid graphene-boron nitride nanosheets: The effect of geometry, temperature, size, strain and structural defects. <i>Computational Materials Science</i> , 2020, 174, 109484.	1.4	19
7	High-performance cement containing nanosized Fe ₃ O ₄ -decorated graphene oxide. <i>Construction and Building Materials</i> , 2020, 260, 120454.	3.2	11
8	A comparative study on the mechanical, physical and morphological properties of cement-micro/nanoFe ₃ O ₄ composite. <i>Scientific Reports</i> , 2020, 10, 2859.	1.6	27
9	Microwave-reduced graphene oxide wrapped NCM layered oxide as a cathode material for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155014.	2.8	18
10	Constructing a three-dimensional graphene structure via bonding layers by ion beam irradiation. <i>Scientific Reports</i> , 2019, 9, 8127.	1.6	18
11	Mechanically induced combustion synthesis and thermoelectric properties of nanostructured strontium hexaboride (SrB ₆). <i>Ceramics International</i> , 2019, 45, 14426-14431.	2.3	3
12	Mechanochemical combustion synthesis of vanadium carbide (VC), niobium carbide (NbC) and tantalum carbide (TaC) nanoparticles. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 79, 177-184.	1.7	25
13	Solution combustion synthesis of the nanocrystalline NCM oxide for lithium-ion battery uses. <i>Materials Research Express</i> , 2018, 5, 025506.	0.8	8
14	Mechanical properties of defective hybrid graphene-boron nitride nanosheets: A molecular dynamics study. <i>Computational Materials Science</i> , 2018, 149, 170-181.	1.4	69
15	Self-propagating mechanosynthesis of HfB ₂ nanoparticles by a magnesiothermic reaction. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1412-1419.	1.9	18
16	A new combustion route for synthesis of TaB ₂ nanoparticles. <i>Ceramics International</i> , 2018, 44, 1142-1146.	2.3	7
17	The effect of calcination conditions on the crystal growth and battery performance of nanocrystalline Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ as a cathode material for Li-ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 19026-19033.	1.4	25
18	Mesoporous Silica by Solution-Combustion Synthesis Followed by Etching. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2018, 27, 221-227.	0.2	3

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19	Studying the effects of longitudinal and transverse defects on the failure of hybrid graphene-boron nitride sheets: A molecular dynamics simulation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 104, 71-81.	1.3	27
20	Mechanically induced combustion synthesis of niobium carbonitride nanoparticles. <i>Journal of Solid State Chemistry</i> , 2018, 267, 106-112.	1.4	3
21	Nanostructured vanadium carbonitride prepared by combustion synthesis during mechanical milling. <i>Journal of Alloys and Compounds</i> , 2018, 763, 18-24.	2.8	3
22	The mechanical design of hybrid graphene/boron nitride nanotransistors: Geometry and interface effects. <i>Solid State Communications</i> , 2018, 270, 82-86.	0.9	30
23	Synthesis mechanism of sono-chemically prepared mesoporous ZnS nanoparticles. <i>Materials Research Express</i> , 2017, 4, 035014.	0.8	6
24	A novel, simple and rapid route to the synthesis of boron carbonitride nanosheets: combustive gaseous unfolding. <i>Scientific Reports</i> , 2017, 7, 3453.	1.6	42
25	Combustion synthesis of amorphous boron in a very-short-term magnesiothermic reduction. <i>Materials Research Express</i> , 2016, 3, 115018.	0.8	7
26	The effect of preliminary mechanical activation on the zinc loss control in combustive reduction of MoO ₃ by Zn. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 54, 251-259.	1.7	9
27	A mechanistic study on the production of nanosized Mo in microwave assisted combustive reduction of MoO ₃ by Zn. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 50, 191-196.	1.7	30
28	On the formation of Mo ₂ C nanocrystals by a novel system through microwave assisted combustion synthesis. <i>Materials Characterization</i> , 2015, 108, 79-84.	1.9	7
29	<i>In Situ</i> Synthesis of a ZrB ₂ -Based Composite Powder Using a Mechanochemical Reaction for the Zircon/Magnesium/Boron Oxide/Graphite System. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 551-559.	1.1	5
30	The role of boron oxide and carbon amounts in the mechanosynthesis of ZrB ₂ -SiC-ZrC nanocomposite via a self-sustaining reaction in the zircon/magnesium/boron oxide/graphite system. <i>Journal of Alloys and Compounds</i> , 2014, 598, 113-119.	2.8	14
31	An investigation on the formation mechanism of nano ZrB ₂ powder by a magnesiothermic reaction. <i>Journal of Alloys and Compounds</i> , 2014, 588, 36-41.	2.8	33
32	Formation mechanism of ZrB ₂ -Al ₂ O ₃ nanocomposite powder by mechanically induced self-sustaining reaction. <i>Journal of Materials Science</i> , 2013, 48, 7557-7567.	1.7	10
33	Mechanochemical synthesis of ZrB ₂ -SiC-ZrC nanocomposite powder by metallothermic reduction of zircon. <i>Journal of Alloys and Compounds</i> , 2013, 581, 782-787.	2.8	34
34	Nano-SiC/SiC anti-oxidant coating on the surface of graphite. <i>Applied Surface Science</i> , 2013, 264, 128-132.	3.1	29
35	Mechanosynthesis of nanocrystalline ZrB ₂ -based powders by mechanically induced self-sustaining reaction method. <i>Advances in Applied Ceramics</i> , 2013, 112, 383-388.	0.6	45
36	Effect of composition on structural and magnetic properties of nanocrystalline ball milled Ni ^{1-x} Zn ^x Fe ₂ O ₄ ferrite. <i>Physica B: Condensed Matter</i> , 2010, 405, 507-512.	1.3	60

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37	SYNTHESIS, GRAIN GROWTH, Cu-DOPING, AND MAGNETIC PROPERTIES OF NANOCRYSTALLINE Ni-Zn FERRITE. International Journal of Modern Physics B, 2010, 24, 1067-1077.	1.0	3
38	Mechanosynthesis of nanostructured magnetic Ni-Zn ferrite. Powder Technology, 2009, 193, 150-153.	2.1	51
39	Investigation of structural and magnetic properties of nanocrystalline Ni _{0.3} Zn _{0.7} Fe ₂ O ₄ prepared by high energy ball milling. Journal of Alloys and Compounds, 2009, 480, 737-740.	2.8	33
40	Comparison of the Activation Energies of the Formation of Chromium Carbide Coating on Carburized and Uncarburized AISI 1020 Steel. , 2009, 80, 859.		3
41	The effects of NbC nanoparticles synthesized by combustion method on the mechanical properties of Cu-NbC nanocomposite. International Journal of Applied Ceramic Technology, 0, , .	1.1	0