

Ali Nemati

List of Publications by Year in descending order

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96
papers

2,448
citations

201674

27
h-index

243625

44
g-index

98
all docs

98
docs citations

98
times ranked

2909
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advancements in Bulk Metallic Glasses and Their Applications: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 233-268.	12.3	170
2	The effect of functionalisation method on the stability and the thermal conductivity of nanofluid hybrids of carbon nanotubes/gamma alumina. <i>Ceramics International</i> , 2013, 39, 3885-3891.	4.8	168
3	Magnetic CoFe ₂ O ₄ nanoparticles doped with metal ions: A review. <i>Ceramics International</i> , 2020, 46, 18391-18412.	4.8	155
4	Effect of Ti ⁴⁺ -Zn substitution on structural, magnetic and microwave absorption characteristics of strontium hexaferrite. <i>Journal of Alloys and Compounds</i> , 2014, 583, 325-328.	5.5	96
5	Pressureless sintering of ZrB ₂ ceramics codoped with TiC and graphite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 81, 189-195.	3.8	68
6	Properties, crystallization mechanism and microstructure of lithium disilicate glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 208-214.	3.1	65
7	Characterization of optical properties of amorphous BaTiO ₃ nanothin films. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2480-2484.	3.1	62
8	Crack-free nanostructured BaTiO ₃ thin films prepared by sol-gel dip-coating technique. <i>Ceramics International</i> , 2014, 40, 8613-8619.	4.8	61
9	A modified method for barium titanate nanoparticles synthesis. <i>Materials Research Bulletin</i> , 2011, 46, 2291-2295.	5.2	59
10	Comparison between electrochemical and photoelectrochemical detection of dopamine based on titania-ceria-graphene quantum dots nanocomposite. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111977.	10.1	58
11	Magnetron-sputtered Ti _x Ny thin films applied on titanium-based alloys for biomedical applications: Composition-microstructure-property relationships. <i>Surface and Coatings Technology</i> , 2018, 349, 251-259.	4.8	56
12	Doxorubicin-conjugated D-glucosamine- and folate- bi-functionalised InP/ZnS quantum dots for cancer cells imaging and therapy. <i>Journal of Drug Targeting</i> , 2018, 26, 267-277.	4.4	51
13	Preparation and characterisation of diopside-based glass-ceramic foams. <i>Ceramics International</i> , 2012, 38, 2005-2010.	4.8	50
14	Hydrophobic octadecylamine-functionalized graphene/TiO ₂ hybrid coating for corrosion protection of copper bipolar plates in simulated proton exchange membrane fuel cell environment. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15380-15389.	7.1	46
15	Densification and Properties of Fe ₂ O ₃ Nanoparticles added CaO Refractories. <i>Ceramics International</i> , 2016, 42, 12270-12275.	4.8	42
16	Performance improvement of MgO-CaO refractories by the addition of nano-sized Al ₂ O ₃ . <i>Materials Chemistry and Physics</i> , 2017, 198, 354-359.	4.0	40
17	Effect of Y ₂ O ₃ and Er ₂ O ₃ co-dopants on phase stabilization of bismuth oxide. <i>Ceramics International</i> , 2011, 37, 3451-3455.	4.8	39
18	Effects of Ce-Co substitution on structural, magnetic and dielectric properties of M-type barium hexaferrite nanoparticles synthesized by sol-gel auto-combustion route. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2134-2144.	2.2	39

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19	Phase and microstructural evolution of low carbon MgO-C refractories with addition of Fe-catalyzed phenolic resin. <i>Ceramics International</i> , 2019, 45, 3390-3406.	4.8	38
20	Molten salt synthesis of a SiC coating on graphite flakes for application in refractory castables. <i>Ceramics International</i> , 2016, 42, 11951-11957.	4.8	35
21	Synthesis and properties of Ce-doped TiO ₂ -reduced graphene oxide nanocomposite. <i>Journal of Alloys and Compounds</i> , 2018, 742, 986-995.	5.5	35
22	Two-step sintering of ZnO varistors. <i>Solid State Ionics</i> , 2011, 190, 99-105.	2.7	34
23	Preparation, magnetic properties, and photocatalytic performance under natural daylight irradiation of Fe ₃ O ₄ -ZnO core/shell nanoparticles designed on reduced GO platelet. <i>Materials Science in Semiconductor Processing</i> , 2017, 72, 85-92.	4.0	33
24	Catalytic graphitization behavior of phenolic resins by addition of in situ formed nano-Fe particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 101, 50-61.	2.7	32
25	The effect of mixing molar ratios and sand particles on microstructure and mechanical properties of metakaolin-based geopolymers. <i>Materials Chemistry and Physics</i> , 2020, 240, 122223.	4.0	32
26	Comprehensive study on the effect of SiC and carbon additives on the pressureless sintering and microstructural and mechanical characteristics of new ultra-high temperature ZrB ₂ ceramics. <i>Ceramics International</i> , 2015, 41, 11456-11463.	4.8	30
27	Effect of working pressure and annealing temperature on microstructure and surface chemical composition of barium strontium titanate films grown by pulsed laser deposition. <i>Bulletin of Materials Science</i> , 2015, 38, 1645-1650.	1.7	30
28	Synthesis and characterization of hydroxyapatite/titania nanocomposites using in situ precipitation technique. <i>Superlattices and Microstructures</i> , 2012, 51, 877-885.	3.1	29
29	Investigation of interfacial and mechanical properties of alumina-coated steel fiber reinforced geopolymer composites. <i>Construction and Building Materials</i> , 2021, 288, 123118.	7.2	28
30	Conductor-insulator transition and electronic structure of Ca-doped BiFeO ₃ films. <i>Materials Letters</i> , 2012, 83, 124-126.	2.6	27
31	Effect of simultaneous chemical substitution of A and B sites on the electronic structure of BiFeO ₃ films grown on BaTiO ₃ /SiO ₂ /Si substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2128-2134.	2.2	26
32	Enhancing glass ionomer cement features by using the HA/YSZ nanocomposite: A feed forward neural network modelling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 29, 317-327.	3.1	25
33	Electronic structure and morphological study of BaTiO ₃ film grown by pulsed-laser deposition. <i>Materials Letters</i> , 2012, 72, 107-109.	2.6	24
34	Effects of nucleation agents on the preparation of transparent glass-ceramics. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2989-2994.	5.7	24
35	Photoconductivity and diode effect in Bi rich multiferroic BiFeO ₃ thin films grown by pulsed-laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 815-820.	2.2	23
36	Effect of chemical substitution on the morphology and optical properties of Bi _{1-x} CaxFeO ₃ films grown by pulsed-laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 248-252.	2.2	23

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37	Nanothickness films, nanostructured films, and nanocrystals of barium titanate obtained directly by a newly developed sol-gel synthesis pathway. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 5345-5355.	2.2	23
38	Improving CNT distribution and mechanical properties of MWCNT reinforced alumina matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 617, 110-114.	5.6	22
39	The role of oxygen defects in magnetic properties of gamma-irradiated reduced graphene oxide. <i>Journal of Alloys and Compounds</i> , 2019, 784, 134-148.	5.5	22
40	Photocatalytic and photoluminescence properties of ZnO/graphene quasi core-shell nanoparticles. <i>Ceramics International</i> , 2019, 45, 8945-8961.	4.8	21
41	Microstructural and electrical properties of varistors prepared from coated ZnO nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 571-577.	2.2	19
42	Evaluation of ascorbic acid-loaded calcium phosphate bone cements: Physical properties and in vitro release behavior. <i>Ceramics International</i> , 2014, 40, 3961-3968.	4.8	19
43	Production of perovskite catalysts on ceramic monoliths with nanoparticles for dual fuel system automobiles. <i>International Journal of Environmental Science and Technology</i> , 2009, 6, 105-112.	3.5	18
44	Microwave assisted synthesis & properties of nano HA-TCP biphasic calcium phosphate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 441-445.	4.9	18
45	Dielectric and piezoelectric properties of porous PZT-PCN ceramics sintered at different temperatures. <i>Materials Letters</i> , 2015, 151, 85-88.	2.6	18
46	Investigation of dark and light conductivities in calcium doped bismuth ferrite thin films. <i>Materials Letters</i> , 2011, 65, 3086-3088.	2.6	17
47	Sintering of Al ₂ O ₃ -SiC composite from sol-gel method with MgO, TiO ₂ and Y ₂ O ₃ addition. <i>Ceramics International</i> , 2011, 37, 1681-1688.	4.8	17
48	Influence of Fe ₂ O ₃ on non-isothermal crystallization kinetics and microstructure of lithium titanium phosphate glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2015, 408, 130-136.	3.1	17
49	Optimization of the magnetic properties and microstructure of Co ₂ +La ₃₊ substituted strontium hexaferrite by varying the production parameters. <i>Ceramics International</i> , 2014, 40, 5675-5680.	4.8	16
50	Synthesis and characterization of co-doped TiO ₂ thin films on glass-ceramic. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 41-48.	4.0	15
51	Corrosion protection of 1050 aluminium alloy using a smart self-cleaning TiO ₂ -CNT coating. <i>Surface and Coatings Technology</i> , 2015, 275, 224-231.	4.8	15
52	Effects of Fe ₂ O ₃ content on ionic conductivity of Li ₂ O-TiO ₂ -P ₂ O ₅ glasses and glass-ceramics. <i>Materials Chemistry and Physics</i> , 2017, 190, 8-16.	4.0	15
53	Synthesis and characterization of rGO/Fe ₂ O ₃ nanocomposite as an efficient supercapacitor electrode material. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14998-15005.	2.2	15
54	Grain growth kinetics and electrical properties of CuO doped SnO ₂ -based varistors. <i>Journal of Alloys and Compounds</i> , 2019, 770, 784-791.	5.5	14

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55	Effect of intermediate nickel layer on seal strength and chemical compatibility of glass and ferritic stainless steel in oxidizing environment for solid oxide fuel cells. International Journal of Hydrogen Energy, 2015, 40, 16434-16442.	7.1	13
56	Interactions near the triple-phase boundaries metal/glass/air in planar solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 5306-5314.	7.1	13
57	Microwave-assisted sintering of Al ₂ O ₃ -MWCNT nanocomposites. Ceramics International, 2017, 43, 6105-6109.	4.8	13
58	The effects of SiO ₂ and K ₂ O on glass forming ability and structure of CaO-TiO ₂ -P ₂ O ₅ glass system. Ceramics International, 2012, 38, 3281-3290.	4.8	12
59	A comparative evaluation of the additional impact of nanometer-sized tetravalent oxides on the performance of Dolomite-Magnesia ceramic refractories. Ceramics International, 2018, 44, 2058-2064.	4.8	12
60	Characterization and photocatalytic activities of nanosized titanium dioxide thin films. International Journal of Environmental Science and Technology, 2011, 8, 545-552.	3.5	11
61	Microstructural, optical, and electrical characteristics of Ni/C doped BST thin films. Ceramics International, 2019, 45, 5503-5510.	4.8	11
62	Effects of nucleation agent particle size on properties, crystallisation and microstructure of glass-ceramics in TiO ₂ -ZrO ₂ -Li ₂ O-CaO-Al ₂ O ₃ -SiO ₂ system. Advances in Applied Ceramics, 2010, 109, 318-323.	1.1	10
63	Effects of processing conditions on the physico-chemical characteristics of titanium dioxide ultra-thin films deposited by DC magnetron sputtering. Ceramics International, 2015, 41, 7977-7981.	4.8	10
64	Hydrothermal synthesis of TiO ₂ nanorod for using as an electron transport material in perovskite solar cells. AIP Conference Proceedings, 2018, , .	0.4	10
65	Effect of YSZ sol-gel coating on interaction of Crofer22 APU with sealing glass for solid oxide fuel/electrolysis cell. Journal of Alloys and Compounds, 2020, 847, 156496.	5.5	10
66	Synthesis and crystallization of lead-zirconium-titanate (PZT) nanotubes at the low temperature using carbon nanotubes (CNTs) as sacrificial templates. Advanced Powder Technology, 2012, 23, 647-654.	4.1	9
67	Role of MgF ₂ on properties of glass-ceramics. Bulletin of Materials Science, 2012, 35, 853-858.	1.7	9
68	Reduced graphene oxide: An alternative for Magnetic Resonance Imaging contrast agent. Materials Letters, 2018, 233, 363-366.	2.6	9
69	Microstructural features of nanocomposite of alumina@carbon nanotubes/alumina nanoparticles synthesized by a solvothermal method. Ceramics International, 2012, 38, 3991-3998.	4.8	8
70	The Effect of Fatty Amine Chain Length on Synthesis Process of Inp/Zns Quantum Dots. Oriental Journal of Chemistry, 2016, 32, 2163-2169.	0.3	8
71	Crystallisation kinetics of hydroxyapatite thin films prepared by sol-gel process. Advances in Applied Ceramics, 2010, 109, 313-317.	1.1	7
72	Adsorption of hydrocarbons on modified nanoclays. IOP Conference Series: Materials Science and Engineering, 2011, 18, 182012.	0.6	7

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73	Utilization of DTA in the Determination of a Crystallization Mechanism in Transparent Glass-Ceramics with a Nanocrystalline Structure. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 561-570.	0.6	7
74	Microwave absorption properties of Ti ⁴⁺ /Zn substituted strontium hexaferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1901-1905.	2.2	7
75	Synthesis of Ca ²⁺ /Nd ³⁺ /Y tri-doped TiO ₂ photo-catalyst for MO degradation and characterization. <i>Materials Research Express</i> , 2015, 2, 105011.	1.6	6
76	Effect of Samarium Oxide on the Electrical Conductivity of Plasma-Sprayed SOFC Anodes. <i>Jom</i> , 2016, 68, 2569-2573.	1.9	6
77	Conventional and two step sintering of PZT-PCN ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	6
78	Dispute in photocatalytic and photoluminescence behavior in ZnO/graphene oxide core-shell nanoparticles. <i>Materials Letters</i> , 2019, 240, 117-120.	2.6	6
79	High voltage SnO ₂ varistors prepared from nanocrystalline powders. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 199-205.	2.2	5
80	The Effects of Composition and Sintering Conditions on Zirconia Toughened Alumina (ZTA) Nanocomposites. <i>Advanced Materials Research</i> , 0, 93-94, 695-698.	0.3	5
81	One-pot synthesis of ZnO nanoparticles and submicron-aggregates for dye-sensitized solar cells. <i>Materials Letters</i> , 2015, 139, 433-436.	2.6	5
82	Influence of synthesis variables on the properties of barium hexaferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4606-4612.	2.2	5
83	Synthesis and Characterization of Al ₂ O ₃ -SiC Nano Composite by Sol-Gel Method and the Effect of TiO ₂ on Sintering. <i>Journal of Nano Research</i> , 2011, 13, 7-19.	0.8	4
84	Effect of Iron Oxide and Silica Doping on Microstructure, Bandgap and Photocatalytic Properties of Titania by Water-in-Oil Microemulsion Technique. <i>Transactions of the Indian Ceramic Society</i> , 2011, 70, 227-232.	1.0	4
85	New Bi-Gravity from New Massive Gravity. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	4
86	Fabrication of SiC body by microwave sintering process. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5675-5685.	2.2	4
87	Cold compaction behavior and pressureless sinterability of ball milled WC and WC/Cu powders. <i>Science of Sintering</i> , 2016, 48, 71-79.	1.4	4
88	Influence of NaF on Crystallization and Machinability of Mica Glass Ceramics. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 958-964.	0.6	3
89	SiC fines effects on the microstructure and properties of bauxite-based low-cement refractory castables. <i>Ceramics International</i> , 2019, 45, 16338-16346.	4.8	3
90	EFFECT OF MgO NANO PARTICLES ON SINTERING BEHAVIOR OF Al ₂ O ₃ -SiC-MgO NANO COMPOSITES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 568-573.	0.7	2

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91	Synthesis and characterisation of β -tricalcium phosphate coating on zirconia toughened alumina by biomimetic method. <i>Advances in Applied Ceramics</i> , 2013, 112, 140-145.	1.1	2
92	Effect of different additives on the properties of alumina-spinel castables. <i>Ceramica</i> , 2012, 58, 489-494.	0.8	1
93	Gel combustion synthesis of fluorine-doped tin oxide and its characteristics: applying D-optimal factorial design of experiment. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	1
94	The relation between particle size and transformation temperature of gibbsite to β -LPHA-alumina. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2022, 131, 111-121.	0.2	1
95	Protection of titanium metal by nanohydroxyapatite coating with zirconia and alumina second phases. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012, 48, 688-691.	1.1	0
96	Synthesis of nanocrystalline Ni/Ce-YSZ powder via a polymerization route. <i>Materials Science-Poland</i> , 2013, 31, 343-349.	1.0	0