

Saeid Baghshahi

List of Publications by Year in descending order

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65
papers

1,109
citations

516710

16
h-index

454955

30
g-index

65
all docs

65
docs citations

65
times ranked

1403
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of silver nanoparticles using the plant extract of <i>Salvia spinosa</i> grown in vitro and their antibacterial activity assessment. <i>Journal of Nanostructure in Chemistry</i> , 2019, 9, 1-9.	9.1	346
2	Biosynthesis of silver nanoparticles using <i>Ocimum basilicum</i> cultured under controlled conditions for bactericidal application. <i>Materials Science and Engineering C</i> , 2019, 98, 250-255.	7.3	63
3	Synthesis of Mg ₂ SiO ₄ :Eu ³⁺ by combustion method and investigating its luminescence properties. <i>Journal of Alloys and Compounds</i> , 2013, 555, 62-67.	5.5	34
4	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
5	Hot corrosion behavior of Al ₂ O ₃ laser clad plasma sprayed YSZ thermal barrier coatings. <i>Ceramics International</i> , 2016, 42, 17698-17705.	4.8	32
6	Thermal stability of nanostructured aluminum powder synthesized by high-energy milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6702-6707.	5.6	31
7	Structure, phase formation, and wetting behavior of BaO-SiO ₂ -B ₂ O ₃ based glass-ceramics as sealants for solid oxide fuel cells. <i>Ionics</i> , 2014, 20, 55-64.	2.4	26
8	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
9	Effects of alumina and zirconia addition on transformation of andalusite to mullite. <i>Advances in Applied Ceramics</i> , 2009, 108, 389-395.	1.1	23
10	Microstructural characteristics and grain growth kinetics of Pr ₆ O ₁₁ Doped SnO ₂ -based varistors. <i>Solid State Ionics</i> , 2011, 189, 13-18.	2.7	23
11	Photoluminescence and microstructural properties of SiO ₂ -ZnO-B ₂ O ₃ system containing TiO ₂ and V ₂ O ₅ . <i>Ceramics International</i> , 2012, 38, 1663-1670.	4.8	22
12	Preparation, heat treatment and photoluminescence properties of V-doped ZnO-SiO ₂ -B ₂ O ₃ glasses. <i>Journal of Luminescence</i> , 2012, 132, 1126-1132.	3.1	19
13	Improving the Thermal Shock Resistance of Thermal Barrier Coatings Through Formation of an In Situ YSZ/Al ₂ O ₃ Composite via Laser Cladding. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1890-1899.	2.5	19
14	Comparison of copper compounds on copper foil as current collector for fabrication of graphene/polypyrrole electrode. <i>Journal of Energy Storage</i> , 2018, 19, 201-212.	8.1	19
15	The influence of heat treatment on the microstructure, flux pinning and magnetic properties of bulk BSCCO samples prepared by sol-gel route. <i>Ceramics International</i> , 2018, 44, 5209-5218.	4.8	18
16	Enhancement in the performance of BSCCO (Bi-2223) superconductor with functionalized TiO ₂ nanorod additive. <i>Ceramics International</i> , 2019, 45, 21878-21886.	4.8	18
17	Synthesis of white pearlescent pigments using the surface response method of statistical analysis. <i>Ceramics International</i> , 2008, 34, 2029-2035.	4.8	17
18	Structural and Magnetic Properties of Sn ⁴⁺ Doped Strontium Hexaferrites Prepared via Sol-Gel Auto-Combustion Method. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-6.	2.1	17

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19	Preparation, phase formation and photoluminescence properties of ZnO/SiO ₂ /B ₂ O ₃ glasses with different ZnO/B ₂ O ₃ ratios. <i>Optical Materials</i> , 2012, 34, 850-855.	3.6	16
20	Synthesis of Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ green emitting luminescent nano-pigment by solution combustion method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4412-4417.	2.2	15
21	Surface crystallization of rare-earth aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 290, 208-215.	3.1	14
22	Impact of functionalized SiC nano-whisker on the flux pinning ability and superconductor features of Bi-2223 ceramics. <i>Ceramics International</i> , 2021, 47, 3706-3712.	4.8	14
23	Synthesis of novel hard/soft ferrite composites particles with improved magnetic properties and exchange coupling. <i>Processing and Application of Ceramics</i> , 2018, 12, 248-256.	0.8	14
24	Advantages of Nano Pigments Over Micro Pigments in Obtaining Larger Spectra of Colours in CMYK System. <i>Transactions of the Indian Ceramic Society</i> , 2011, 70, 93-99.	1.0	13
25	Graphite flake carbon composites with a sinterable microbead matrix. <i>Carbon</i> , 2003, 41, 1593-1603.	10.3	11
26	Synthesis and Characterization of La _x Co _{1-x} O ₃ (0 ≤ x ≤ 1) Nano-Crystal Powders by Pechini Type Sol-Gel Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 25-30.	0.6	11
27	Suspension medium's impact on the EPD of nano-YSZ on Fecralloy. <i>Surface Engineering</i> , 2017, 33, 310-318.	2.2	11
28	A comparison of the Electrochemical Properties of graphene/Mn ₃ O ₄ Composites fabricated by two Different Methods. <i>International Journal of Electrochemical Science</i> , 2018, 13, 2462-2473.	1.3	11
29	Deposition of Cu ₂ ZnSnS ₄ films by doctor blade printing using a one-step microwave heated ink as an absorber layer for solar cells. <i>Ceramics International</i> , 2020, 46, 2325-2331.	4.8	11
30	Bi-2223 superconductor ceramics added with cubic-shaped TiO ₂ nanoparticles: Structural, microstructural, magnetic, and vortex pinning studies. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163201.	5.5	11
31	PZT ceramics prepared through a combined method of B-site precursor and wet mechanically activated calcinate in a planetary ball mill. <i>Ceramics International</i> , 2017, 43, 3873-3878.	4.8	10
32	Enhancement in superconducting properties of Bi ₂ Sr ₂ Ca ₁ Cu ₂ O ₈ + <i>δ</i> (Bi-2212) by means of boron oxide additive. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 548, 31-39.	1.2	10
33	Facile and scalable fabrication of graphene/polypyrrole/MnO _x /Cu(OH) ₂ composite for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3317-3329.	2.5	10
34	Effect of Polyaniline on Magnetic and Microwave Absorption Properties in SrFe ₁₂ O ₁₉ /Zn _{0.4} Co _{0.2} Ni _{0.4} Fe ₂ O ₄ Ferrite Nanocomposites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4014-4026.	3.7	10
35	Effect of MgO and CaO on Transformation of Andalusite to Mullite. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1637-1644.	2.5	9
36	Effect of Partial Substitution of Mn for Ni on Mechanical Properties of Friction Stir Processed Hypoeutectic Al-Ni Alloys. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3007-3018.	2.1	9

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37	Effect of Cu ²⁺ substitution on structural and magnetic properties of Ni ²⁺ /Zn ferrite nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11447-11456.	2.2	8
38	Hydrophobic nanocrystalline glazes based on cassiterite for self-cleaning outdoor power grid insulators. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5750-5754.	5.7	8
39	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
40	Photodeposition of Pd nanoparticles on TiO ₂ using sacrificial organic alcohols. <i>Journal of the Australian Ceramic Society</i> , 2018, 54, 383-388.	1.9	7
41	Modification of doped strontium hexaferrite by MWCNT and PANI for photocatalytic degradation of methylene blue dye. <i>Research on Chemical Intermediates</i> , 2019, 45, 5559-5575.	2.7	7
42	The effect of Eu and Dy dopants on the luminescence properties of Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ , Dy ³⁺ phosphorescent nano-pigments prepared by the solution combustion method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12533-12538.	2.2	6
43	Photodeposition of Pd nanoparticles on TiO ₂ utilizing a channel type quartz reactor. <i>Ceramics International</i> , 2017, 43, 9322-9326.	4.8	6
44	Improving mechanical properties of Mn-added hypoeutectic Al-4Ni alloy by friction stir processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 460-472.	4.2	6
45	Kinetic evaluation of YSZ/Al ₂ O ₃ nanocomposite coatings fabricated by electrophoretic deposition on a nickel-based superalloy. <i>Processing and Application of Ceramics</i> , 2021, 15, 1-10.	0.8	6
46	Synergic effect of additives on the structure and properties of nano strontium hexaferrite synthesized via the gel combustion method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115631.	3.5	6
47	Fabrication and characterization of YSZ/Al ₂ O ₃ nano-composite coatings on Inconel by electrophoretic deposition. <i>Journal of Materials Research</i> , 2017, 32, 3402-3408.	2.6	5
48	The effect of lanthanum substitution on the sintering behavior and the dielectric and piezoelectric properties of niobium doped Pb(Zr _{0.95} Ti _{0.05})O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4863-4870.	2.2	5
49	Theoretical and experimental study of PbO-SiO ₂ -Sb ₂ O ₃ glasses as gamma ray shielding materials. <i>Journal of the Australian Ceramic Society</i> , 2018, 54, 459-465.	1.9	5
50	An investigation on the properties of YSZ/Al ₂ O ₃ nanocomposite coatings on Inconel by electrophoretic deposition. <i>Journal of Composite Materials</i> , 2018, 52, 81-89.	2.4	5
51	A novel gel-cast SiC with potential application in turbine hot section: Investigation of the rheological behavior and mechanical properties. <i>Ceramics International</i> , 2019, 45, 15996-16001.	4.8	5
52	Effect of Al ₂ O ₃ and Y ₂ O ₃ on the corrosion behavior of ZrO ₂ -benzotriazole nanostructured coatings applied on AA2024 via a sol-gel method. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 1344-1353.	4.9	4
53	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
54	A New Systematic Approach to the Morphology and Magnetic Properties of Spherical, Cubic, and Rod-like Magnetite Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 1949-1954.	1.8	3

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55	Synthesis and Dispersion of Fe ₃ O ₄ Nanoparticles Using Anionic PEG-g-acrylic Comb Dispersants. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 861-867.	0.6	2
56	Investigation of Electrochemical Behavior of Zirconia-Benzotriazole Hybrid Nanostructured Coating Applied on Al 2024 by Sol-Gel Method. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 1050-1058.	1.1	2
57	Effect of Titanium Nitride, Diamond-Like Carbon and Chromium Carbonitride Coatings on the Life Time of an AISI M2 Steel Punch Forming Tool. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	2.6	2
58	The effect of lanthanum substitution on μ_r and k_p aging rates of niobium doped Pb(Zr _{0.95} Ti _{0.05})O ₃ ceramics. Journal of the Australian Ceramic Society, 2017, 53, 761-766.	1.9	1
59	The effect of tantalum substitution on the microstructure and dielectric and piezoelectric properties of Pb _{0.99} (Zr _{0.95} Ti _{0.05}) _{0.98} Nb _{0.02} O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 17948-17955.	2.2	1
60	The relation between particle size and transformation temperature of gibbsite to γ -LPHA-alumina. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2022, 131, 111-121.	0.2	1
61	Physical properties and microstructural characterization of copper-ZrO ₂ /YSZ nano-composites produced via double-pressing double-sintering method (DPDS). Journal of Materials Science: Materials in Electronics, 2021, 32, 28307-28320.	2.2	1
62	Synthesis and characterization of hydrophobic nano-silica thin coatings for outdoor insulators. Processing and Application of Ceramics, 2020, 14, 40-46.	0.8	1
63	The Formation of a New Phase during Crystallization of TiO ₂ -Doped Nd ₂ O ₃ -Al ₂ O ₃ -SiO ₂ Glasses. Transactions of the Indian Ceramic Society, 2022, 81, 22-29.	1.0	1
64	Sintering and Thermal Shock Behavior of Yttria-Stabilized Zirconia Coating Deposited by Electrophoretic Method On Inconel 738LC Superalloy. Transactions of the Indian Institute of Metals, 0, , .	1.5	1
65	Flash-photoreduction method to enhance hydrogen photogeneration on Pd@TiO ₂ . Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2432.	1.5	0