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List of Publications by Year in descending order

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82
papers

2,171
citations

218677

26
h-index

243625

44
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85
all docs

85
docs citations

85
times ranked

2027
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the composition and magnetic properties of strontium hexaferrite synthesized by co-precipitation method. Journal of Magnetism and Magnetic Materials, 2008, 320, 336-343.	2.3	205
2	Influence of manganese substitution and annealing temperature on the formation, microstructure and magnetic properties of Mn ²⁺ -Zn ferrites. Journal of Magnetism and Magnetic Materials, 2008, 320, 1615-1621.	2.3	118
3	Synthesis and characterization of barium hexaferrite nanoparticles. Journal of Materials Processing Technology, 2007, 181, 106-109.	6.3	110
4	Preparation of silica nanoparticles from semi-burned rice straw ash. Powder Technology, 2008, 185, 31-35.	4.2	96
5	Controlling the synthesis conditions for silica nanosphere from semi-burned rice straw. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 162, 14-21.	3.5	89
6	Effect of Fe/Ba mole ratios and surface-active agents on the formation and magnetic properties of co-precipitated barium hexaferrite. Journal of Alloys and Compounds, 2008, 453, 304-308.	5.5	85
7	The structure and optical properties of PVA-BaTiO ₃ nanocomposite films. Optical Materials, 2021, 111, 110648.	3.6	79
8	Effect of Co ²⁺ and Y ³⁺ ions insertion on the microstructure development and magnetic properties of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ powders synthesized using Co-precipitation method. Journal of Magnetism and Magnetic Materials, 2015, 374, 359-366.	2.3	68
9	Synthesis and characterization of lithium ferrite by oxalate precursor route. Journal of Magnetism and Magnetic Materials, 2008, 320, 2800-2807.	2.3	65
10	Effect of γ -rays irradiation on Mn ²⁺ -Ni ferrites: Structure, magnetic properties and positron annihilation studies. Nuclear Instruments & Methods in Physics Research B, 2013, 304, 72-79.	1.4	65
11	Effect of Reducing Gas on the Volume Change during Reduction of Iron Oxide Compacts.. ISIJ International, 1996, 36, 640-649.	1.4	63
12	Carbon Monoxide Reduction and Accompanying Swelling of Iron Oxide Compacts.. ISIJ International, 1996, 36, 164-171.	1.4	55
13	Nano-crystalline copper ferrites from secondary iron oxide (mill scale). Journal of Magnetism and Magnetic Materials, 2009, 321, 181-187.	2.3	55
14	Hydrothermal synthesis and characterizations of Ti substituted Mn-ferrites. Journal of Alloys and Compounds, 2012, 529, 29-33.	5.5	52
15	Synthesis of Eco-Friendly Biopolymer, Alginate-Chitosan Composite to Adsorb the Heavy Metals, Cd(II) and Pb(II) from Contaminated Effluents. Materials, 2021, 14, 2189.	2.9	52
16	Magnetic behavior of cobalt ferrite nanowires prepared by template-assisted technique. Materials Chemistry and Physics, 2010, 123, 254-259.	4.0	46
17	Synthesis and magnetic properties of strontium hexaferrite from celestite ore. Journal of Alloys and Compounds, 2009, 476, 373-378.	5.5	45
18	Effect of synthesis conditions on the preparation of YIG powders via co-precipitation method. Journal of Magnetism and Magnetic Materials, 2009, 321, 3752-3757.	2.3	44

#	ARTICLE	IF	CITATIONS
19	Structural and magnetic properties of pure and doped nanocrystalline cadmium ferrite. <i>Journal of Alloys and Compounds</i> , 2009, 475, 832-839.	5.5	44
20	Exogenous Sodium Nitroprusside Mitigates Salt Stress in Lentil (<i>Lens culinaris</i> Medik.) by Affecting the Growth, Yield, and Biochemical Properties. <i>Molecules</i> , 2021, 26, 2576.	3.8	40
21	Enhancement of magnetic properties for the barium hexaferrite prepared through ceramic route. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 78, 282-287.	5.5	39
22	Preparation and characterization of some ferromagnetic glass-ceramics contains high quantity of magnetite. <i>Ceramics International</i> , 2009, 35, 1539-1544.	4.8	39
23	Impedance, FTIR and transport properties of plasticized proton conducting biopolymer electrolyte based on chitosan for electrochemical device application. <i>Results in Physics</i> , 2021, 29, 104770.	4.1	36
24	Glass fabrication using ceramic and porcelain recycled waste and lithium niobate: physical, structural, optical and nuclear radiation attenuation properties. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4074-4085.	5.8	36
25	Sintering and heating reduction processes of alumina containing iron ore samples. <i>Ironmaking and Steelmaking</i> , 2008, 35, 191-204.	2.1	30
26	A Comparative Study of Cerium- and Ytterbium-Based GO/g-C ₃ N ₄ /Fe ₂ O ₃ Composites for Electrochemical and Photocatalytic Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9000.	2.5	30
27	Biofertilizer-Based Zinc Application Enhances Maize Growth, Gas Exchange Attributes, and Yield in Zinc-Deficient Soil. <i>Agriculture (Switzerland)</i> , 2021, 11, 310.	3.1	24
28	Implementation of La ³⁺ ion substituted M-type strontium hexaferrite powders for enhancement of magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166187.	2.3	23
29	Investigating the Antibacterial Activity of Polymeric Membranes Fabricated with Aminated Graphene Oxide. <i>Membranes</i> , 2021, 11, 510.	3.0	22
30	Transformation of silica fume into chemical mechanical polishing (CMP) nano-slurries for advanced semiconductor manufacturing. <i>Powder Technology</i> , 2011, 205, 149-154.	4.2	20
31	Influence of carboxylic acid type on microstructure and magnetic properties of polymeric complex sol-gel driven NiFe ₂ O ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 398, 109-115.	2.3	20
32	Structural and Magnetolectrical Properties of MFe ₂ O ₄ (M = Co, Ni, Cu, Mg). <i>Tj ETQq0 0,0 rgBT /Overlock 10</i>	3.5	20
33	Catalytic impact of alloyed Al on the corrosion behavior of Co ₅₀ Ni ₂₃ Ga ₂₆ Al _{1.0} magnetic shape memory alloy and catalysis applications for efficient electrochemical H ₂ generation. <i>RSC Advances</i> , 2017, 7, 3635-3649.	3.6	18
34	Structural, thermal, and optical properties of polyvinyl alcohol films doped with La ₂ ZnOx nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2022, 580, 121405.	3.1	16
35	Reduction behavior of barium hexaferrite into metallic iron nanocrystallites. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 107-115.	2.3	15
36	Development of Tincal based polypropylene polymeric materials for radiation shielding applications: Experimental, theoretical, and Monte Carlo investigations. <i>Materials Science in Semiconductor Processing</i> , 2022, 146, 106696.	4.0	15

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37	Influence of aging on microstructure, martensitic transformation and mechanical properties of NiTiRe shape memory alloy. <i>Metals and Materials International</i> , 2014, 20, 997-1002.	3.4	14
38	Assessing the Radiological Risks Associated with High Natural Radioactivity of Microgranitic Rocks: A Case Study in a Northeastern Desert of Egypt. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 473.	2.6	14
39	Exploration of Nonlinear Optical Properties for the First Theoretical Framework of Non-Fullerene DTS(FBTTh ₂)-Based Derivatives. <i>ACS Omega</i> , 2022, 7, 18027-18040.	3.5	14
40	Evaluation of dielectric breakdown strength of transformer oil with BaTiO ₃ and NiFe ₂ O ₄ nanoparticles. <i>Electrical Engineering</i> , 2019, 101, 369-377.	2.0	13
41	Structural, magnetic and sensing properties of lanthanum ferrite via facile sol gel oxalate precursor route. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4170-4178.	2.2	12
42	Enhancing saturation magnetization of Mg ferrite nanoparticles for better magnetic recoverable photocatalyst. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	12
43	Breakdown performance of transformer oil in the presence of single-phase nanocrystalline ZnO and nano- ϵ -partial substitution. <i>IET Science, Measurement and Technology</i> , 2019, 13, 737-745.	1.6	12
44	Effect of MWCNTs Functionalization on Thermal, Electrical, and Ammonia-Sensing Properties of MWCNTs/PMMA and PHB/MWCNTs/PMMA Thin Films Nanocomposites. <i>Nanomaterials</i> , 2021, 11, 2625.	4.1	12
45	Fabrication and Characterization of Sulfonated Graphene Oxide-Doped Polymeric Membranes with Improved Anti-Biofouling Behavior. <i>Membranes</i> , 2021, 11, 563.	3.0	11
46	Fabrication, physical, structural, and optical investigation of cadmium lead-borate glasses doped with Nd ³⁺ ions: An experimental study. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 1877-1887.	2.2	11
47	Catalytic activity and magnetic properties of barium hexaferrite prepared from barite ore. <i>Materials Research Bulletin</i> , 2007, 42, 1242-1250.	5.2	10
48	Characterisation of iron ore sinter and its behaviour during non-isothermal reduction conditions. <i>Ironmaking and Steelmaking</i> , 2008, 35, 183-190.	2.1	10
49	Fabrication and Characterization of Sulfonated Graphene Oxide (SGO) Doped PVDF Nanocomposite Membranes with Improved Anti-Biofouling Performance. <i>Membranes</i> , 2021, 11, 749.	3.0	10
50	Controlling the structural, microstructure and magnetic properties of barium W-type hexaferrite elaborated using tartaric acid precursor strategy. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9771-9779.	2.2	9
51	Investigation of mechanical, photon buildup factors, and neutron-sensing properties of B ₂ O ₃ -Al ₂ O ₃ -Li ₂ O-CuO glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24401-24414.	2.2	9
52	Evaluating the optical and gamma-ray protection properties of bismo-tellurite sodium titanium zinc glasses. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 851-866.	1.9	8
53	Hierarchically porous NiO microspheres and their nanocomposites with exfoliated carbon as electrode materials for supercapacitor applications. <i>Journal of Taibah University for Science</i> , 2022, 16, 575-584.	2.5	8
54	Structural properties of ferric pseudobrookite Fe ₂ Ti ₁₀ O ₅ powder prepared by a new method. <i>International Journal of Nanoparticles</i> , 2011, 4, 2.	0.3	7

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55	Synthesis and Characterization of Nanocrystalline Barium-Samarium Titanate. High Temperature Materials and Processes, 2016, 35, 499-505.	1.4	7
56	Structural, optical, mechanical and simulating the gamma-ray shielding competencies of novel cadmium bismo-borate glasses: The impact of bismuth oxide. Journal of Materials Science: Materials in Electronics, 2021, 32, 24381-24393.	2.2	7
57	Optimization of Microstructure and Mechanical Properties of Hipped Inconel 718 by Various Heat Treatment Processes. Metallography, Microstructure, and Analysis, 2019, 8, 642-655.	1.0	6
58	The Role of Orientation and Temperature on the Mechanical Properties of a 20 Years Old Wind Turbine Blade GFR Composite. Polymers, 2021, 13, 1144.	4.5	6
59	A molecular biomimetic sensor of tris(2-benzimidazolymethyl)amine-based iron(III) complex for acrylamide detection: Electrochemical study and DFT calculations. Journal of the Chinese Chemical Society, 2021, 68, 2303-2311.	1.4	6
60	Investigating the performance of acetylated diethyl ether-Camelina sativa biodiesel as fuel in compression ignition engine. Energy, Ecology and Environment, 2022, 7, 281-295.	3.9	6
61	Effect of barite on mineralogical composition and structure of iron ore sinter. Ironmaking and Steelmaking, 2008, 35, 169-178.	2.1	5
62	Low-Temperature Synthesis of Nanocrystalline $Mn_{0.2}Ni_{0.8}Fe_2O_4$ by Oxalate Precursor Route. Advances in Materials Physics and Chemistry, 2013, 03, 1-7.	1.4	5
63	One-pot synthesis of novel substituted quinoxaline piperazine derivatives and their antimicrobial activities. Journal of Molecular Structure, 2022, 1253, 132260.	3.6	5
64	Investigation of the elastic moduli, optical characteristics, and ionizing radiation attenuation capacity of specific strontium borosilicate glasses. Journal of the Australian Ceramic Society, 2022, 58, 495-510.	1.9	5
65	Rationale Design, Synthesis, Pharmacological and <i>In silico</i> Investigation of Indole-Functionalized Isoxazoles as Anti-inflammatory Agents. ChemistrySelect, 2022, 7, .	1.5	5
66	Influence of Ti additions on martensitic transformation and magnetic properties of cast $Ni_{51}Fe_{22}Ga_{27}Ti_x$ shape memory alloys. Metals and Materials International, 2013, 19, 991-997.	3.4	4
67	Magnetic and colouring performances of Co^{2+} ion doped magnetite powders synthesised using isothermal gaseous reduction. Materials Technology, 2015, 30, 70-75.	3.0	4
68	Anionic ligands tune the structural and catalytic properties of quinoxaline-based copper(II) complexes as mimetics of copper-containing oxidase protein. Journal of Molecular Structure, 2022, 1250, 131809.	3.6	4
69	A Robust and Highly Precise Alternative against the Proliferation of Intestinal Carcinoma and Human Hepatocellular Carcinoma Cells Based on Lanthanum Strontium Manganite Nanoparticles. Materials, 2021, 14, 4979.	2.9	3
70	Synthesis of molybdenum silicide/mullite composites for high-temperature applications. International Journal of Self-Propagating High-Temperature Synthesis, 2011, 20, 72-81.	0.5	2
71	Radon concentration in compressed natural gas and liquefied petroleum gas and its release range in residential houses. Radiochimica Acta, 2021, 109, 793-798.	1.2	2
72	Microwave Assisted-Hydrothermal Synthesis of Nickel Ferrite Nanoparticles. Oriental Journal of Chemistry, 2018, 34, 2577-2582.	0.3	2

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73	Boost the Crystal Installation and Magnetic Features of Cobalt Ferrite/M-Type Strontium Ferrite Nanocomposites Double Substituted by La ³⁺ and Sm ³⁺ Ions (2CoFe ₂ O ₄ /SrFe ₁₂ ˆˆ2xSmxLaxO ₁₉). Materials, 2021, 14, 7820.	2.9	2
74	Functional miscibility and thermomechanical properties enhancement of substituted phthalic acetylated modified chitin filler in biopolymer composite. Royal Society Open Science, 2022, 9, .	2.4	2
75	Martensitic transformation and magnetic properties of aged Ni-Fe-Ga-Ti shape memory alloy. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 867-873.	4.9	1
76	SolidˆLiquid Phase Structural Studies of Bis(2-Picolyl)Amine-Based Zinc(II) Complexes as Functional Hydrolase Models: The Detoxification of Fenitrothion. Journal of Inorganic and Organometallic Polymers and Materials, 0, , 1.	3.7	1
77	Probing a new halogen-free electrolyte and Ba _{0.85} Sm _{0.1} TiO ₃ cathode for Mg battery applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 28781-28791.	2.2	1
78	Developed Process Circuit Flowsheet of Al Amar Ore for Production of Nanocrystalline Ferrite and Improving Gold Recovery. ACS Omega, 2020, 5, 30858-30870.	3.5	1
79	Synthesis and characterization of naphthaldiimine-based ruthenium(III) complexes; homogenous catalytic hydrogenation and isomerization of internal and terminal alkenes. Journal of Coordination Chemistry, 2022, 75, 587-610.	2.2	1
80	Structural and Magnetic Properties of Zinc and Silicon Oxides Doped Cu Ferrite for Temperature Controller Devices. High Temperature Materials and Processes, 2015, 34, .	1.4	0
81	Dominating the structural, microstructural, and magnetic features of Li ⁺ -substituted strontium hexaferrite (Sr _{1ˆˆx} Li _{2x} Fe ₁₂ O ₁₉). Journal of Materials Science: Materials in Electronics, 2021, 32, 16565-16576.	2.2	0
82	One Pot Microwave Irradiation Synthesis of Spherical and Nanotube Titanates Incorporated Reduced Graphene for Efficient Hydrogen Production Photo-Electrocatalytically. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 289-296.	3.7	0