

A Manikandan

List of Publications by Year in descending order

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229
papers

10,924
citations

19657

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48315

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docs citations

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times ranked

6419
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical and magnetic properties of Mg-doped ZnFe ₂ O ₄ nanoparticles prepared by rapid microwave combustion method. <i>Superlattices and Microstructures</i> , 2013, 64, 118-131.	3.1	248
2	Rare earth element (REE) lanthanum doped zinc oxide (La: ZnO) nanomaterials: Synthesis structural optical and antibacterial studies. <i>Journal of Alloys and Compounds</i> , 2017, 723, 1155-1161.	5.5	229
3	A simple aloe vera plant-extracted microwave and conventional combustion synthesis: Morphological, optical, magnetic and catalytic properties of CoFe ₂ O ₄ nanostructures. <i>Journal of Molecular Structure</i> , 2014, 1076, 188-200.	3.6	226
4	Synthesis, optical and magnetic properties of pure and Co-doped ZnFe ₂ O ₄ nanoparticles by microwave combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 349, 249-258.	2.3	208
5	Enhanced magneto-optical and photo-catalytic properties of transition metal cobalt (Co ²⁺ ions) doped spinel MgFe ₂ O ₄ ferrite nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 452, 380-388.	2.3	180
6	Effect of lattice strain on structure, morphology and magneto-dielectric properties of spinel NiGdxFe _{2-2x} O ₄ ferrite nano-crystallites synthesized by sol-gel route. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 238-251.	2.3	179
7	Microalgae an ecofriendly and sustainable wastewater treatment option: Biomass application in biofuel and bio-fertilizer production. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110603.	16.4	175
8	Structural, optical and magnetic properties of Zn _{1-x} Cu _x Fe ₂ O ₄ nanoparticles prepared by microwave combustion method. <i>Journal of Molecular Structure</i> , 2013, 1035, 332-340.	3.6	164
9	Spinel Ni _{1-x} Zn _x Fe ₂ O ₄ (0.0 ≤ x ≤ 1.0) nano-photocatalysts: Synthesis, characterization and photocatalytic degradation of methylene blue dye. <i>Journal of Molecular Structure</i> , 2016, 1119, 39-47.	3.6	156
10	Structural, morphological, enhanced magnetic properties and antibacterial bio-medical activity of rare earth element (REE) cerium (Ce ³⁺) doped CoFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 157-165.	2.3	139
11	A Novel One-Pot Combustion Synthesis and Opto-magnetic Properties of Magnetically Separable Spinel Mn _x Mg _{1-x} Fe ₂ O ₄ (0.0 ≤ x ≤ 0.5) Nanophotocatalysts. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1405-1416.	1.8	138
12	Magneto-optical and microstructural properties of spinel cubic copper ferrites with Li-Al co-substitution. <i>Ceramics International</i> , 2018, 44, 14242-14250.	4.8	138
13	A Novel Synthesis of Zn ²⁺ -Doped CoFe ₂ O ₄ Spinel Nanoparticles: Structural, Morphological, Opto-magnetic and Catalytic Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2539-2552.	1.8	125
14	A Novel Synthesis, Structural, Morphological, and Opto-magnetic Characterizations of Magnetically Separable Spinel Co _x Mn _{1-x} Fe ₂ O ₄ (0 ≤ x ≤ 1) Nano-catalysts. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2841-2857.	1.8	124
15	Enhanced Photocatalytic Degradation of Methylene Blue Dye, Opto-magnetic and Antibacterial Behaviour of Pure and La-doped ZnO Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 855-864.	1.8	124
16	Enhanced magnetic property and antibacterial biomedical activity of Ce ³⁺ doped CuFe ₂ O ₄ spinel nanoparticles synthesized by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 478, 140-147.	2.3	124
17	Fine cutting edge shaped Bi ₂ O ₃ rods/reduced graphene oxide (RGO) composite for supercapacitor and visible-light photocatalytic applications. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 449-459.	9.4	121
18	Hydrothermal synthesis of Co _y Zn _y Mn _{1-2y} Fe ₂ O ₄ nanoferrites: Magneto-optical investigation. <i>Ceramics International</i> , 2018, 44, 5751-5759.	4.8	120

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19	Comparative investigation of zirconium oxide (ZrO ₂) nano and microstructures for structural, optical and photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , 2013, 389, 91-98.	9.4	117
20	Photocatalytic degradation of methylene blue dye and magneto-optical studies of magnetically recyclable spinel Ni _x Mn _{1-x} Fe ₂ O ₄ (x=0.0-1.0) nanoparticles. <i>Journal of Molecular Structure</i> , 2016, 1113, 79-87.	3.6	115
21	Electromagnetic Properties and Humidity-Sensing Studies of Magnetically Recoverable LaMg _x Fe _{1-x} O ₃ Perovskites Nano-photocatalysts by Sol-Gel Route. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 1691-1701.	1.8	106
22	Room Temperature Ferromagnetism of Magnetically Recyclable Photocatalyst of Cu _{1-x} Mn _x Fe ₂ O ₄ -TiO ₂ (0.0 ≤ x ≤ 0.5) Nanocomposites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1783-1795.	1.8	105
23	Facile combustion synthesis, structural, morphological, optical and antibacterial studies of Bi _{1-x} Al _x FeO ₃ (0.0 ≤ x ≤ 0.15) nanoparticles. <i>Ceramics International</i> , 2018, 44, 13247-13252.	4.8	104
24	Recent trends in nano-based drug delivery systems for efficient delivery of phytochemicals in chemotherapy. <i>RSC Advances</i> , 2016, 6, 48294-48314.	3.6	103
25	Microwave combustion synthesis, structural, optical and magnetic properties of Zn _{1-x} Sr _x Fe ₂ O ₄ nanoparticles. <i>Ceramics International</i> , 2013, 39, 5909-5917.	4.8	97
26	Magnetically Recyclable Spinel Mn _x Ni _{1-x} Fe ₂ O ₄ (x= 0.0-0.5) Nano-photocatalysts: Structural, Morphological and Opto-magnetic Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 477-486.	1.8	96
27	Structural, optical and magnetic properties of Fe ₃ O ₄ nanoparticles prepared by a facile microwave combustion method. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2077-2085.	5.8	95
28	Structural, morphological and magneto-optical properties of CuMoO ₄ electrochemical nanocatalyst as supercapacitor electrode. <i>Ceramics International</i> , 2018, 44, 20075-20083.	4.8	95
29	Magnetic Attributes of NiFe ₂ O ₄ Nanoparticles: Influence of Dysprosium Ions (Dy ³⁺) Substitution. <i>Nanomaterials</i> , 2019, 9, 820.	4.1	95
30	Impact of La ³⁺ and Y ³⁺ ion substitutions on structural, magnetic and microwave properties of Ni _{0.3} Cu _{0.3} Zn _{0.4} Fe ₂ O ₄ nanospinel ferrites synthesized via sonochemical route. <i>RSC Advances</i> , 2019, 9, 30671-30684.	3.6	90
31	Comparative Studies of Spinel MnFe ₂ O ₄ ; Nanostructures: Structural, Morphological, Optical, Magnetic and Catalytic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 9732-9740.	0.9	89
32	The Role of Mn ²⁺ -Doping on Structural, Morphological, Optical, Magnetic and Catalytic Properties of Spinel ZnFe ₂ O ₄ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5929-5943.	0.9	89
33	Microwave combustion synthesis, magneto-optical and electrochemical properties of NiMoO ₄ nanoparticles for supercapacitor application. <i>Ceramics International</i> , 2018, 44, 13879-13887.	4.8	89
34	Ni _{0.4} Cu _{0.2} Zn _{0.4} Tb _x Fe _{2-x} O ₄ nanospinel ferrites: Ultrasonic synthesis and physical properties. <i>Ultrasonics Sonochemistry</i> , 2019, 59, 104757.	8.2	89
35	Influence of WO ₃ nanowires on structural, morphological and flux pinning ability of YBa ₂ Cu ₃ O _y superconductor. <i>Ceramics International</i> , 2019, 45, 2621-2628.	4.8	89
36	Effect of Cr ³⁺ substitution on AC susceptibility of Ba hexaferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 458, 204-212.	2.3	88

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37	Structural, magnetic and electrochemical characterizations of Bi ₂ MoO ₉ nanoparticle for supercapacitor application. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 486, 165254.	2.3	88
38	Room-Temperature Superparamagnetism and Enhanced Photocatalytic Activity of Magnetically Reusable Spinel ZnFe ₂ O ₄ Nanocatalysts. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 2631-2640.	1.8	85
39	Fundamental study of LaMg _x Cr _{1-x} O ₃ perovskites nano-photocatalysts: Sol-gel synthesis, characterization and humidity sensing. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1590-1598.	2.7	84
40	A Novel Synthesis and Characterization Studies of Magnetic Co ₃ O ₄ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4580-4586.	0.9	80
41	Comparative investigation of NiO nano- and microstructures for structural, optical and magnetic properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 49, 117-123.	2.7	77
42	Substitution effect of Cr ³⁺ on hyperfine interactions, magnetic and optical properties of Sr-hexaferrites. <i>Ceramics International</i> , 2018, 44, 15995-16004.	4.8	77
43	Review on recent advances of zinc substituted cobalt ferrite nanoparticles: Synthesis characterization and diverse applications. <i>Ceramics International</i> , 2021, 47, 10512-10535.	4.8	76
44	Enhanced Catalytic Activity and Magnetic Properties of Spinel Mn _x Zn _{1-x} Fe ₂ O ₄ (0.0 ≤ x ≤ 1.0) Nano-Photocatalysts by Microwave Irradiation Route. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 2141-2149.	1.8	74
45	Mössbauer Studies and Magnetic Properties of Cubic CuFe ₂ O ₄ Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 557-564.	1.8	74
46	Structure, morphology and opto-magnetic properties of Bi ₂ MoO ₆ nano-photocatalyst synthesized by sol-gel method. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3271-3278.	4.2	73
47	Magneto-Optical Properties of Reusable Spinel Ni _x Mg _{1-x} Fe ₂ O ₄ (0.0 ≤ x ≤ 1.0) Nano-Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7325-7336.	0.9	73
48	Biogenic synthesis, characterization of gold and silver nanoparticles from <i>Coleus forskohlii</i> and their clinical importance. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 183, 251-257.	3.8	73
49	Microstructural, Optical, and Magnetic Properties of Vanadium-Substituted Nickel Spinel Nanoferrites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1057-1065.	1.8	72
50	A facile hydrothermal synthesis of visible-light responsive BiFeWO ₆ /MoS ₂ composite as superior photocatalyst for degradation of organic pollutants. <i>Ceramics International</i> , 2019, 45, 18683-18690.	4.8	72
51	Improvement of flux pinning ability by tungsten oxide nanoparticles added in YBa ₂ Cu ₃ O _y superconductor. <i>Ceramics International</i> , 2019, 45, 6828-6835.	4.8	71
52	Enhancement on the exchange coupling behavior of SrCo _{0.02} Zr _{0.02} Fe _{11.96} O ₁₉ /MFe ₂ O ₄ (M = Co, Ni, Cu,) <i>Tj ETQq0 0 0 rgBT /Ov</i> 2020, 499, 166308.	2.3	71
53	Functional Sr _{0.5} Ba _{0.5} Sm _{0.02} Fe _{11.98} O ₄ /x(Ni _{0.8} Zn _{0.2} Fe ₂ O ₄) Hard-Soft Ferrite Nanocomposites: Structure, Magnetic and Microwave Properties. <i>Nanomaterials</i> , 2020, 10, 2134.	4.1	71
54	Hibiscus rosa-sinensis Leaf Extracted Green Methods, Magneto-Optical and Catalytic Properties of Spinel CuFe ₂ O ₄ Nano- and Microstructures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 1019-1031.	3.7	69

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55	Structure and magnetic properties of Cu-Ni alloy nanoparticles prepared by rapid microwave combustion method. Transactions of Nonferrous Metals Society of China, 2014, 24, 1467-1473.	4.2	68
56	One-pot preparation of AgBr/Ag ₂ WO ₄ composite with superior photocatalytic activity under visible-light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124079.	4.7	68
57	Electrical properties of lithium bromide poly ethylene oxide / poly vinyl pyrrolidone polymer blend electrolyte. Physica B: Condensed Matter, 2019, 553, 120-126.	2.7	67
58	Enhanced Opto-Magneto Properties of Ni _{1-x} Mg _x Fe ₂ O ₄ (0.0 ≤ x ≤ 1.0) Ferrites Nano-Catalysts. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 1326-1333.	0.5	66
59	Structural, Optical and Magnetic Properties of Porous Zn _{0.5} Fe _{0.5} O ₃ Nanostructures Prepared by Rapid Combustion Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 2986-2992.	0.9	65
60	Hydrothermal synthesis and characterization studies of Fe ₂ O ₃ /MnO ₂ nanocomposites for energy storage supercapacitor application. Ceramics International, 2020, 46, 6222-6233.	4.8	65
61	Role of Mn ²⁺ Doping on Structural, Morphological, and Opto-Magnetic Properties of Spinel Mn _x Co _{1-x} Fe ₂ O ₄ (x = 0.0, 0.1, 0.2, 0.3, 0.4, and 0.5) Nanocatalysts. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2047-2058.	1.8	64
62	Comparative Studies of Microwave- and Sol-Gel-Assisted Combustion Methods of Fe ₃ O ₄ Nanostructures: Structural, Morphological, Optical, Magnetic, and Catalytic Properties. Journal of Superconductivity and Novel Magnetism, 2015, 28, 179-190.	1.8	62
63	The Temperature Effect on Magnetic Properties of NiFe ₂ O ₄ Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1587-1597.	3.7	62
64	Review on Recent Advances of Synthesis, Magnetic Properties, and Water Treatment Applications of Cobalt Ferrite Nanoparticles and Nanocomposites. Journal of Superconductivity and Novel Magnetism, 2021, 34, 995-1018.	1.8	62
65	A Simple Combustion Synthesis and Optical Studies of Magnetic Zn _{0.5} Ni _{0.5} O ₃ Nanostructures for Photoelectrochemical Applications. Journal of Nanoscience and Nanotechnology, 2015, 15, 4948-4960.	0.9	60
66	Formation of functional nanofibrous electrospun polyurethane and murivenna oil with improved haemocompatibility for wound healing. Polymer Testing, 2017, 61, 106-113.	4.8	60
67	Mn ²⁺ Doped NiS (Mn _x Ni _{1-x} S: x = 0.0, 0.3 and 0.5) Nanocrystals: Structural, Morphological, Opto-magnetic and Photocatalytic Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 804-815.	3.7	59
68	Magneto-Optical and Photocatalytic Properties of Magnetically Recyclable Mn _x Zn _{1-x} S (x = 0.0, 0.3,) Tj ETQq0 0 0 rgBT /Overlock 10	1.8	59
69	Synthesis of NiMoO ₄ nanoparticles by sol-gel method and their structural, morphological, optical, magnetic and photocatalytic properties. Transactions of Nonferrous Metals Society of China, 2017, 27, 1785-1793.	4.2	59
70	Electrochemical Investigations of Magnetic Co ₃ O ₄ Nanoparticles as an Active Electrode for Supercapacitor Applications. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2427-2436.	1.8	58
71	Comparative Study of Structural, Morphological, Magneto-Optical and Photo-Catalytic Properties of Magnetically Reusable Spinel MnFe ₂ O ₄ Nano-Catalysts. Journal of Nanoscience and Nanotechnology, 2018, 18, 3523-3531.	0.9	57
72	One-Pot Low Temperature Synthesis and Characterization Studies of Nanocrystalline Fe ₂ O ₃ Based Dye Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2015, 15, 4358-4366.	0.9	56

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73	One-Pot Flash Combustion Synthesis, Structural, Morphological and Opto-Magnetic Properties of Spinel $Mn_xCo_{1-x}Al_2O_4$ ($x = 0, 0.3, \text{ and } 0.5$) Nanocatalysts. Journal of Superconductivity and Novel Magnetism, 2015, 28, 209-218.	1.8	56
74	Preparation and Characterization Studies of Nanostructured CdO Thin Films by SILAR Method for Photocatalytic Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 692-699.	3.7	56
75	Nickel substituted $MgFe_2O_4$ nanoparticles via co-precipitation method for photocatalytic applications. Physica B: Condensed Matter, 2021, 606, 412660.	2.7	55
76	Microwave Combustion Synthesis and Characterization Studies of Magnetic $Zn_{1-x}Cd_xFe_2O_4$ ($0 \leq x \leq 0.5$) Nanoparticles. Journal of Nanoscience and Nanotechnology, 2015, 15, 4543-4551.	2.7	54
77	<i>Sesamum indicum</i> Plant Extracted Microwave Combustion Synthesis and Opto-Magnetic Properties of Spinel $Mn_xCo_{1-x}Al_2O_4$ ($x = 0, 0.3, \text{ and } 0.5$) Nano-Catalysts. Journal of Nanoscience and Nanotechnology, 2016, 16, 448-456.	0.9	54
78	Cellulose dissolution and regeneration using various imidazolium based protic ionic liquids. Journal of Molecular Liquids, 2017, 238, 582-588.	4.9	54
79	Electrical conductivity studies on Ammonium bromide incorporated with Zwitterionic polymer blend electrolyte for battery application. Physica B: Condensed Matter, 2017, 515, 89-98.	2.7	53
80	Novel Synthesis of Spinel $Mn_xCo_{1-x}Al_2O_4$ ($x = 0.0 \text{ to } 1.0$) Nanocatalysts: Effect of Mn^{2+} Doping on Structural, Morphological, and Opto-Magnetic Properties. Journal of Superconductivity and Novel Magnetism, 2017, 30, 691-699.	1.8	53
81	Comparative Study of Combustion Methods, Opto-Magnetic and Catalytic Properties of Spinel $CoAl_2O_4$ Nano- and Microstructures. Advanced Science, Engineering and Medicine, 2015, 7, 672-682.	0.3	53
82	Investigation of the effects of Tm^{3+} on the structural, microstructural, optical, and magnetic properties of Sr hexaferrites. Results in Physics, 2019, 13, 102166.	4.1	52
83	Effect of Annealing Temperature on Magnetic and Mössbauer Properties of $ZnFe_2O_4$ Nanoparticles by Sol-gel Approach. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3347-3356.	1.8	51
84	Synthesis and Magnetic Characterization of Cu Substituted Barium Hexaferrites. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1065-1071.	3.7	51
85	Electrochemical and magneto-optical properties of cobalt molybdate nano-catalyst as high-performance supercapacitor. Ceramics International, 2018, 44, 17735-17742.	4.8	51
86	Magnetically Recyclable Spinel $Mn_xZn_{1-x}Fe_2O_4$ ($0.0 \leq x \leq 0.5$) Nano-Photocatalysts. Advanced Science, Engineering and Medicine, 2015, 7, 33-46.	2.7	51
87	A Novel Approach for the Synthesis and Characterization Studies of Mn^{2+} -Doped CdS Nanocrystals by a Facile Microwave-Assisted Combustion Method. Journal of Superconductivity and Novel Magnetism, 2014, 27, 2725-2733.	1.8	50
88	Electrospinning applications from diagnosis to treatment of diabetes. RSC Advances, 2016, 6, 83638-83655.	3.6	49
89	Evaluation of Cu^{2+} - $MgFe_2O_4$ spinel nanoparticles for photocatalytic and antimicrobial activities. Journal of Physics and Chemistry of Solids, 2021, 153, 110010.	4.0	49
90	Electrical Impedance Studies on Sodium Ion Conducting Composite Blend Polymer Electrolyte. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 257-265.	3.7	48

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91	Effect of surfactants (PVB/EDTA/CTAB) assisted sol-gel synthesis on structural, magnetic and dielectric properties of NiFe ₂ O ₄ nanoparticles. <i>Ceramics International</i> , 2018, 44, 22068-22079.	4.8	48
92	Surface Modification of Titanium and its Alloys for the Enhancement of Osseointegration in Orthopaedics. <i>Current Science</i> , 2016, 111, 1003.	0.8	48
93	Fabrication of exchange coupled hard/soft magnetic nanocomposites: Correlation between composition, magnetic, optical and microwave properties. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102992.	4.9	46
94	Cancer-related fatigue treatment: An overview. <i>Journal of Cancer Research and Therapeutics</i> , 2017, 13, 916-929.	0.9	46
95	Nanomaterials as a game changer in the management and treatment of diabetic foot ulcers. <i>RSC Advances</i> , 2016, 6, 114859-114878.	3.6	45
96	Investigations of lithium ion conducting polymer blend electrolytes using biodegradable cornstarch and PVP. <i>Physica B: Condensed Matter</i> , 2020, 580, 411940.	2.7	45
97	Influence of Dy ³⁺ Ions on the Microstructures and Magnetic, Electrical, and Microwave Properties of [Ni _{0.4} Cu _{0.2} Zn _{0.4}](Fe ₂ Dy _x)O ₄ (0.00 ≤ x ≤ 0.04) Spinel Ferrites. <i>ACS Omega</i> , 2021, 6, 10266-10280.	3.5	45
98	Green synthesis and characterization studies of biogenic zirconium oxide (ZrO ₂) nanoparticles for adsorptive removal of methylene blue dye. <i>Journal of Molecular Structure</i> , 2022, 1247, 131275.	3.6	45
99	Impact of nickel substitution on structure, magneto-optical, electrical and acoustical properties of cobalt ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157517.	5.5	44
100	Preparation and characterization studies of La doped CuS nanospheres by microwave irradiation for high performance supercapacitors. <i>Physica B: Condensed Matter</i> , 2019, 573, 92-101.	2.7	42
101	Impact of Tm ³⁺ and Tb ³⁺ Rare Earth Cations Substitution on the Structure and Magnetic Parameters of Co-Ni Nanospinel Ferrite. <i>Nanomaterials</i> , 2020, 10, 2384.	4.1	42
102	Enhanced Antibacterial Activity and Photo-Catalytic Properties of ZnO Nanoparticles: <i>Petalium Murex</i> Plant Extract-Assisted Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2888-2894.	0.9	41
103	Structural, morphological and optical properties of multifunctional magnetic-luminescent ZnO@Fe ₃ O ₄ nanocomposite. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114291.	2.7	41
104	Biomimetic electrospun polyurethane matrix composites with tailor made properties for bone tissue engineering scaffolds. <i>Polymer Testing</i> , 2019, 78, 105955.	4.8	40
105	Effect of zinc precursor ratio on morphology and luminescent properties of ZnO nanoparticles synthesized in CTAB medium. <i>Ceramics International</i> , 2018, 44, 15290-15297.	4.8	38
106	Comparative investigation of the ball milling role against hand grinding on microstructure, transport and pinning properties of Y ₃ Ba ₅ Cu ₈ O ₁₈ and YBa ₂ Cu ₃ O ₇ . <i>Ceramics International</i> , 2018, 44, 19950-19957.	4.8	37
107	Excess conductivity and AC susceptibility studies of Y-123 superconductor added with TiO ₂ nano-wires. <i>Materials Chemistry and Physics</i> , 2019, 235, 121721.	4.0	37
108	Investigation of exchange coupling and microwave properties of hard/soft (SrNi _{0.02} Zr _{0.01} Fe _{11.96} O ₁₉)/(CoFe ₂ O ₄) _x nanocomposites. <i>Materials Today Nano</i> , 2022, 18, 100186.	4.6	37

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109	Photocatalytic degradation of reactive anionic dyes RB5, RR198 and RY145 via rare earth element (REE) lanthanum substituted CaTiO ₃ perovskite catalysts. Journal of Materials Research and Technology, 2021, 15, 5936-5947.	5.8	36
110	Enhanced Magneto-optical and Photocatalytic Properties of Ferromagnetic Mg _{1-x} Y _x Ni _y Fe ₂ O ₄ (0.0 ≤ x, y ≤ 1). Journal of Materials Research and Technology, 2021, 15, 5948-5957.	1.8	35
111	Dielectric Investigation of NaLiS Nanoparticles Loaded on Alginate Polymer Matrix Synthesized by Single Pot Microwave Irradiation. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 671-678.	3.7	35
112	Okra (<i>Abelmoschus esculentus</i>) Plant Extract-Assisted Combustion Synthesis and Characterization Studies of Spinel ZnAl ₂ O ₄ Nano-Catalysts. Journal of Nanoscience and Nanotechnology, 2018, 18, 4072-4081.	0.9	35
113	Effect of electrical conductivity studies for CuS nanofillers mixed magnesium ion based PVA-PVP blend polymer solid electrolyte. Physica B: Condensed Matter, 2019, 572, 129-138.	2.7	35
114	Electronic, magnetic, and microwave properties of hard/soft nanocomposites based on hexaferrite SrNi _{0.02} Zr _{0.02} Fe _{11.96} O ₁₉ with variable spinel phase MFe ₂ O ₄ (M = Mn, Co, Cu, and Zn). Ceramics International, 2021, 47, 35209-35223.	4.8	35
115	Effects of Ce-Dy rare earths co-doping on various features of Ni-Co spinel ferrite microspheres prepared via hydrothermal approach. Journal of Materials Research and Technology, 2021, 14, 2534-2553.	5.8	35
116	Studies on sodium nitrate based polyethylene oxide / polyvinyl pyrrolidone polymer blend electrolytes. Physica B: Condensed Matter, 2018, 547, 55-63.	2.7	34
117	Magneto-resistivity and magnetization investigations of YBCO superconductor added by nano-wires and nano-particles of titanium oxide. Journal of Materials Science: Materials in Electronics, 2019, 30, 8805-8813.	2.2	34
118	Review on nitride compounds and its polymer composites: a multifunctional material. Journal of Materials Research and Technology, 2022, 18, 2175-2193.	5.8	34
119	Engineered electrospun polyurethane and castor oil nanocomposite scaffolds for cardiovascular applications. Journal of Materials Science, 2017, 52, 10673-10685.	3.7	33
120	Sol-Gel Synthesis and Characterization Studies of NiMoO ₄ Nanostructures for Photocatalytic Degradation of Methylene Blue Dye. Nanoscience and Nanotechnology Letters, 2016, 8, 438-443.	0.4	33
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