Mohamed Bououdina

List of Publications by Year
in descending order

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358 papers	10,777 citations	34105 52 h-index	58581 82 g-index
363 all docs	363 docs citations	363 times ranked	10411 citing authors

#	Article	IF	Citations
1	Mechanical alloying and electronic simulations of (MgH2+M) systems (M=Al, Ti, Fe, Ni, Cu and Nb) for hydrogen storage. International Journal of Hydrogen Energy, 2004, 29, 73-80.	7.1	376
2	Optical and magnetic properties of Mg-doped ZnFe2O4 nanoparticles prepared by rapid microwave combustion method. Superlattices and Microstructures, 2013, 64, 118-131.	3.1	248
3	Synthesis, optical and magnetic properties of pure and Co-doped ZnFe2O4 nanoparticles by microwave combustion method. Journal of Magnetism and Magnetic Materials, 2014, 349, 249-258.	2.3	208
4	Effect of cobalt substitution on structural, elastic, magnetic and optical properties of zinc ferrite nanoparticles. Journal of Alloys and Compounds, 2018, 731, 1256-1266.	5.5	208
5	Structural, Optical, and Magnetic Properties of Zn-Doped CoFe2O4 Nanoparticles. Nanoscale Research Letters, 2017, 12, 141.	5.7	193
6	Solâ€“gel synthesis of 8nm magnetite (Fe3O4) nanoparticles and their magnetic properties. Superlattices and Microstructures, 2012, 52, 793-799.	3.1	191
7	Review on hydrogen absorbing materialsâ€”structure, microstructure, and thermodynamic properties. International Journal of Hydrogen Energy, 2006, 31, 177-182.	7.1	189
8	Structural characterization and antistructure modeling of cobalt-substituted zinc ferrites. Journal of Alloys and Compounds, 2017, 694, 777-791.	5.5	165
9	Structural, optical and magnetic properties of Zn1â^'xCuxFe2O4 nanoparticles prepared by microwave combustion method. Journal of Molecular Structure, 2013, 1035, 332-340.	3.6	164
10	Optical, structural and photocatalysis properties of Cu-doped TiO 2 thin films. Applied Surface Science, 2017, 395, 110-116.	6.1	156
11	Improved magnetic properties of Cr3+ doped SrFe12O19 synthesized via microwave hydrothermal route. Materials Research Bulletin, 2015, 63, 58-66.	5.2	150
12	Visible light driven photocatalytic degradation of rhodamine B using Mg doped cobalt ferrite spinel nanoparticles synthesized by microwave combustion method. Journal of Physics and Chemistry of Solids, 2017, 108, 61-75.	4.0	140
13	Okra extract-assisted green synthesis of CoFe2O4 nanoparticles and their optical, magnetic, and antimicrobial properties. Materials Chemistry and Physics, 2018, 204, 410-419.	4.0	138
14	Optical and magnetic properties of Ni-doped ZnO nanoparticles. Journal of Alloys and Compounds, 2017, 694, 522-531.	5.5	136
15	Studies on the efficient dual performance of Mn1â€“xNixFe2O4 spinel nanoparticles in photodegradation and antibacterial activity. Journal of Photochemistry and Photobiology B: Biology, 2016, 165, 121-132.	3.8	127
16	Synthesis, morphology, crystallite size and adsorption properties of nanostructured Mgâ€“Zn ferrites with enhanced porous structure. Journal of Alloys and Compounds, 2020, 819, 152945.	5.5	118
17	Magnetic and optical properties of manganese doped ZnO nanoparticles synthesized by solâ€“gel technique. Superlattices and Microstructures, 2013, 60, 139-147.	3.1	116
18	Eco-friendly synthesis of ZnO nanoparticles with different morphologies and their visible light photocatalytic performance for the degradation of Rhodamine B. Ceramics International, 2016, 42, 10259-10265.	4.8	116

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19	Structural, morphological, optical, and magnetic properties of Ni-doped CuO nanostructures prepared by a rapid microwave combustion method. Materials Science in Semiconductor Processing, 2014, 17, 110-118.	4.0	112
20	Investigation of the toxic effects of different polystyrene micro-and nanoplastics on microalgae Chlorella vulgaris by analysis of cell viability, pigment content, oxidative stress and ultrastructural changes. Marine Pollution Bulletin, 2020, 156, 111278.	5.0	112
21	Microwave combustion synthesis, structural, optical and magnetic properties of Zn1â˜'xSrxFe2O4 nanoparticles. Ceramics International, 2013, 39, 5909-5917.	4.8	97
22	Studies on the microwave assisted and conventional combustion synthesis of Hibiscus rosa-sinensis plant extract based ZnFe2O4 nanoparticles and their optical and magnetic properties. Ceramics International, 2016, 42, 2741-2749.	4.8	96
23	Effect of Cu2+ doping on structural, morphological, optical and magnetic properties of MnFe2O4 particles/sheets/flakes-like nanostructures. Ceramics International, 2015, 41, 15-26.	4.8	92
24	Enhanced anti-cancer and antimicrobial activities of curcumin nanoparticles. Artificial Cells, Nanomedicine and Biotechnology, 2017, 45, 98-107.	2.8	85
25	Synthesis, structural, magnetic and optical properties of nanocrystalline ZnFe2O4. Physica B: Condensed Matter, 2011, 406, 1989-1994.	2.7	84
26	Structural, optical and room-temperature ferromagnetic properties of Fe-doped CuO nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 53, 193-199.	2.7	83
27	New antistatic charge and electromagnetic shielding effectiveness from conductive epoxy resin/plasticized carbon black composites. Polymer Composites, 2008, 29, 125-132.	4.6	82
28	Occurrence and characterization of surface sediment microplastics and litter from North African coasts of Mediterranean Sea: Preliminary research and first evidence. Science of the Total Environment, 2020, 713, 136664.	8.0	77
29	Combustion synthesis, structure, magnetic and optical properties of cobalt aluminate spinel nanocrystals. Ceramics International, 2014, 40, 13067-13074.	4.8	75
30	Characterization of a lipopeptide biosurfactant produced by a crude-oil-emulsifying Bacillus sp. I-15. International Biodeterioration and Biodegradation, 2013, 84, 168-178.	3.9	74
31	Structure, microstructure and optical properties of Sn-doped ZnO thin films. Journal of Alloys and Compounds, 2014, 593, 148-153.	5.5	73
32	Optical, electrical and sensing properties of In2O3 nanoparticles. Materials Science in Semiconductor Processing, 2013, 16, 686-695.	4.0	72
33	Co-Doped ZnO Nanoparticles: Structural, Morphological, Optical, Magnetic and Antibacterial Studies. Journal of Materials Science and Technology, 2014, 30, 1108-1117.	10.7	71
34	Conventional and microwave combustion synthesis of optomagnetic CuFe2O4 nanoparticles for hyperthermia studies. Journal of Physics and Chemistry of Solids, 2018, 115, 162-171.	4.0	71
35	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
36	Comparative study of mechanical alloying of (Mg+Al) and (Mg+Al+Ni) mixtures for hydrogen storage. Journal of Alloys and Compounds, 2002, 336, 222-231.	5.5	63

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37	Structural and elastic properties of LiBH4 for hydrogen storage applications. Journal of Alloys and Compounds, 2012, 534, 20-24.	5.5	62
38	Fabrication and characterisations of n-CdS/p-PbS heterojunction solar cells using microwave-assisted chemical bath deposition. Solar Energy, 2013, 89, 143-151.	6.1	60
39	Nanostructured copper aluminate spinels: Synthesis, structural, optical, magnetic, and catalytic properties. Materials Science in Semiconductor Processing, 2014, 24, 146-156.	4.0	60
40	A Simple Combustion Synthesis and Optical Studies of Magnetic Zn_{1â€“<I>x</I>}Ni<I>_x</I>Fe₂O<SUB> Nanostructures for Photoelectrochemical Applications. Journal of Nanoscience and Nanotechnology, 2015, 15, 4948-4960.	0.9	60
41	Preparation of gold and goldâ€“silver alloy nanoparticles for enhancement of plasmonic dye-sensitized solar cells performance. Solar Energy, 2016, 126, 93-104.	6.1	59
42	Synergic effect of Cu2O/MoS2/rGO for the sonophotocatalytic degradation of tetracycline and ciprofloxacin antibiotics. Ceramics International, 2021, 47, 4226-4237.	4.8	58
43	High performance room temperature GaN-nanowires hydrogen gas sensor fabricated by chemical vapor deposition (CVD) technique. International Journal of Hydrogen Energy, 2013, 38, 14085-14101.	7.1	57
44	Fabrication of low cost UV photo detector using ZnO nanorods grown onto nylon substrate. Journal of Materials Science: Materials in Electronics, 2015, 26, 1322-1331.	2.2	57
45	Structural, microstructural, optical and magnetic properties of Mn-doped ZnO nanostructures. Journal of Molecular Structure, 2016, 1109, 89-96.	3.6	57
46	Toxicity effect of graphene oxide on growth and photosynthetic pigment of the marine alga Picochlorum sp. during different growth stages. Environmental Science and Pollution Research, 2017, 24, 4144-4152.	5.3	57
47	Structural stability of mechanically alloyed (Mg+10Nb) and (MgH2+10Nb) powder mixtures. Journal of Alloys and Compounds, 2003, 349, 217-223.	5.5	56
48	One-Pot Low Temperature Synthesis and Characterization Studies of Nanocrystalline Î±-Fe₂O₃ Based Dye Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2015, 15, 4358-4366.	0.9	56
49	Studies on Opuntia dilenii haw mediated multifunctional ZnFe 2 O 4 nanoparticles: Optical, magnetic and catalytic applications. Materials Chemistry and Physics, 2017, 194, 153-164.	4.0	55
50	Recent Advances in Iron Oxide Nanoparticles (IONPs): Synthesis and Surface Modification for Biomedical Applications. Journal of Superconductivity and Novel Magnetism, 2019, 32, 779-795.	1.8	55
51	Elastic properties of perovskite-type hydride NaMgH3 for hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 1484-1489.	7.1	54
52	Structural, optical and magnetic characterizations of Mn-doped MgO nanoparticles. Materials Chemistry and Physics, 2014, 143, 1500-1507.	4.0	54
53	Synthesis of Co-doped ZnO nanoparticles via co-precipitation: Structural, optical and magnetic properties. Powder Technology, 2015, 286, 757-765.	4.2	54
54	Effect of nickel alloying by using ball milling on the hydrogen absorption properties of TiFe. International Journal of Hydrogen Energy, 1999, 24, 885-890.	7.1	52

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55	Structural and magnetic properties of Mn-doped ZnO nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 107-112.	2.7	52
56	Microwave absorption studies of magnetic sublattices in microwave sintered Cr3+ doped SrFe12O19. Journal of Magnetism and Magnetic Materials, 2017, 426, 604-614.	2.3	52
57	Synthesis, characterization and photocatalytic behavior of Ag doped TiO2 thin film. Superlattices and Microstructures, 2015, 85, 255-265.	3.1	50
58	Characterization and study of antibacterial activity of spray pyrolysed ZnO:Al thin films. Applied Nanoscience (Switzerland), 2016, 6, 815-825.	3.1	50
59	Comparative investigation on the structural, morphological, optical, and magnetic properties of CoFe2O4 nanoparticles. Ceramics International, 2017, 43, 7682-7689.	4.8	50
60	Optical, magnetic and structural properties of ZnFe2O4 nanoparticles synthesized by conventional and microwave assisted combustion method: A comparative investigation. Optik, 2017, 129, 57-68.	2.9	50
61	Al-doped ZnO thin films grown onto ITO substrates as photoanode in dye sensitized solar cell. Solar Energy, 2017, 141, 127-144.	6.1	50
62	High performance and low-cost UVâ€“Visibleâ€“NIR photodetector based on tin sulphide nanostructures. Journal of Alloys and Compounds, 2018, 735, 2256-2262.	5.5	50
63	Dependence of structure/morphology on electrical/magnetic properties of hydrothermally synthesised cobalt ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 493, 165703.	2.3	49
64	Effect of growth time on Ti-doped ZnO nanorods prepared by low-temperature chemical bath deposition. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 88, 169-173.	2.7	48
65	Toxicity Effect of Silver Nanoparticles on Photosynthetic Pigment Content, Growth, ROS Production and Ultrastructural Changes of Microalgae Chlorella vulgaris. Nanomaterials, 2019, 9, 914.	4.1	48
66	Ball-milling of Mg2Ni under hydrogen. Journal of Alloys and Compounds, 1998, 268, 285-289.	5.5	47
67	Hydrogen gas sensing performance of GaN nanowires-based sensor at low operating temperature. Sensors and Actuators B: Chemical, 2014, 204, 497-506.	7.8	46
68	Self-assembly of aligned CuO nanorod arrays using nanoporous anodic alumina template by electrodeposition on Si substrate for IR photodetectors. Sensors and Actuators A: Physical, 2016, 239, 209-219.	4.1	46
69	Characterization of nanocrystalline PbS thin films prepared using microwave-assisted chemical bath deposition. Materials Science in Semiconductor Processing, 2012, 15, 564-571.	4.0	45
70	Effect of substrate temperature on indium tin oxide (ITO) thin films deposited by jet nebulizer spray pyrolysis and solar cell application. Materials Science in Semiconductor Processing, 2014, 27, 562-568.	4.0	45
71	Effect of Fe-doping on the structural, optical and magnetic properties of ZnO nanostructures synthesised by co-precipitation method. Ceramics International, 2016, 42, 1588-1596.	4.8	45
72	Facile hydrogenation of N-heteroarenes by magnetic nanoparticle-supported sub-nanometric Rh catalysts in aqueous medium. Catalysis Science and Technology, 2018, 8, 4709-4717.	4.1	45

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73	Spectroscopic analysis, structural, microstructural, optical and electrical properties of Zn-doped In2O3 thin films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 171-178.	3.9	44
74	Nanostructured ZnO-based biosensor: DNA immobilization and hybridization. Sensing and Bio-Sensing Research, 2017, 15, 46-52.	4.2	44
75	Phase stability and neutron diffraction studies of Laves phases Zr(Cr1âˆ'M)2 with M = Mn, Fe, Co, Ni, Cu and 0 < x < 0.2 and their hydrides. Journal of Alloys and Compounds, 1995, 219, 48-54.	5.5	43
76	The effect of processing conditions on carbon nanostructures formed on an iron-based catalyst. Carbon, 2006, 44, 2273-2280.	10.3	43
77	Rietveld analysis and MÃ¶ssbauer spectroscopy studies of nanocrystalline hematite Î±-Fe2O3. Journal of Alloys and Compounds, 2010, 502, 279-282.	5.5	42
78	Removal of Basic Fuchsin from water by using mussel powdered eggshell membrane as novel bioadsorbent: Equilibrium, kinetics, and thermodynamic studies. Environmental Research, 2020, 186, 109484.	7.5	42
79	Structural and optical properties of visible active photocatalytic Al doped ZnO nanostructured thin films prepared by dip coating. Optical Materials, 2021, 113, 110868.	3.6	42
80	Facile microwave assisted combustion synthesis, structural, optical and magnetic properties of La2âˆ'Sr CuO4 (0â€¯â‰¤â€¯x â‰¤ 0.5) perovskite nanostructures. Journal of Magnetism and Magnetic Materials, 2018, 465, 48-57.	2.3	41
81	Spectroscopic study and optical and electrical properties of Ti-doped ZnO thin films by spray pyrolysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 120, 297-303.	3.9	40
82	Facile synthesis of Fe3+ doped La2CuO4/LaFeO3 perovskite nanocomposites: Structural, optical, magnetic and catalytic properties. Materials Science in Semiconductor Processing, 2019, 100, 225-235.	4.0	40
83	Preparation of chemically deposited thin films of CdS/PbS solar cell. Superlattices and Microstructures, 2012, 52, 816-823.	3.1	39
84	Hybrid functional calculations of potential hydrogen storage material: Complex dimagnesium iron hydride. International Journal of Hydrogen Energy, 2014, 39, 9709-9717.	7.1	39
85	Revealing a room temperature ferromagnetism in cadmium oxide nanoparticles: an experimental and first-principles study. RSC Advances, 2015, 5, 33233-33238.	3.6	39
86	Nanocrystalline Ni doped Î±-Fe2O3 for adsorption of metals from aqueous solution. Journal of Alloys and Compounds, 2014, 588, 592-595.	5.5	38
87	Effect of magnetic iron oxide (Fe3O4) nanoparticles on the growth and photosynthetic pigment content of Picochlorum sp.. Environmental Science and Pollution Research, 2015, 22, 11728-11739.	5.3	38
88	Green synthesis of cobalt ferrite nanoparticles using Cydonia oblonga extract: structural and mÃ¶ssbauer studies. Molecular Crystals and Liquid Crystals, 2018, 672, 54-66.	0.9	38
89	Low-temperature growth and properties of flower-shaped - Ni(OH)2 and NiO structures composed of thin nanosheets networks. Superlattices and Microstructures, 2008, 44, 216-222.	3.1	37
90	Selectivity and efficient Pb and Cd ions removal by magnetic MFe2O4 (M=Co, Ni, Cu and Zn) nanoparticles. Materials Chemistry and Physics, 2019, 232, 254-264.	4.0	37

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91	Phase components and hydriding properties of the sintered Mgâ€“xwt.% LaNi5 (x=20â€“50) composites. Journal of Alloys and Compounds, 1999, 282, 252-257.	5.5	36
92	Experimental and first-principles DFT studies of electronic, optical and magnetic properties of ceriumâ€“manganese codoped zinc oxide nanostructures. Materials Science in Semiconductor Processing, 2015, 34, 27-38.	4.0	36
93	Ultravioletâ€“Visible photo-response of p-Cu2O/n-ZnO heterojunction prepared on flexible (PET) substrate. Materials Chemistry and Physics, 2015, 156, 54-60.	4.0	34
94	The influence of Cu2O crystal structure on the Cu2O/ZnO heterojunction photovoltaic performance. Superlattices and Microstructures, 2015, 85, 908-917.	3.1	34
95	A study of the effects of aligned vertically growth time on ZnO nanorods deposited for the first time on Teflon substrate. Applied Surface Science, 2017, 426, 906-912.	6.1	33
96	Physicochemical and electrochemical properties of Gd3+-doped ZnSe thin films fabricated by single-step electrochemical deposition process. Journal of Solid State Electrochemistry, 2018, 22, 1197-1207.	2.5	33
97	Biosynthesis of Zinc oxide nanoparticles from essential oil of Eucalyptus globulus with antimicrobial and anti-biofilm activities. Materials Today Communications, 2020, 25, 101553.	1.9	33
98	The investigation of the Zr1â^'yTiy(Cr1â^'xNix)2â€“H2 system 0.0â‰yâ‰1.0 and 0.0â‰xâ‰1.0 Phase composition analysis and thermodynamic properties. Journal of Alloys and Compounds, 1998, 281, 290-300.	5.5	32
99	Effects of mechanical grinding on the hydrogen storage and electrochemical properties of LaNi5. Journal of Alloys and Compounds, 1999, 292, 166-173.	5.5	32
100	Preparation, characterization, spectroscopic (FT-IR, FT-Raman, UV and visible) studies, optical properties and Kubo gap analysis of In2O3 thin films. Journal of Molecular Structure, 2013, 1049, 239-249.	3.6	32
101	Creation of RT-FM in CdO nanocrystalline powder by codoping with Cu and Gd: Effect of annealing in hydrogen atmosphere. Journal of Alloys and Compounds, 2014, 601, 162-166.	5.5	32
102	Structural and thermodynamic properties of the pseudo-binary TiCr2â^'xVx compounds with 0.0â‰xâ‰1.2. Journal of Alloys and Compounds, 2002, 340, 101-107.	5.5	31
103	One-dimensional ZnO nanostructure growth prepared by thermal evaporation on different substrates: Ultraviolet emission as a function of size and dimensionality. Ceramics International, 2013, 39, 7439-7444.	4.8	31
104	PbS nanocrystal solar cells fabricated using microwave-assisted chemical bath deposition. International Journal of Hydrogen Energy, 2013, 38, 807-815.	7.1	30
105	Morphological, structural, and gas-sensing characterization of tin-doped indium oxide nanoparticles. Ceramics International, 2014, 40, 1321-1328.	4.8	30
106	Influence of pH value on structural, optical and photoresponse properties of SnS films grown via chemical bath deposition. Materials Letters, 2018, 210, 279-282.	2.6	30
107	Influence of Milling Time on Structural and Microstructural Parameters of Ni₅₀Ti₅₀ Prepared by Mechanical Alloying Using Rietveld Analysis. Journal of Nanomaterials, 2018, 2018, 1-11.	2.7	30
108	Phase stability and neutron diffraction studies of the laves phase compounds Zr(Cr1Ã¢Â^Â'xMox)2 with 0.0Ã¢Â‰ÂxÃ¢Â‰Â0.5 and their hydrides. International Journal of Hydrogen Energy, 2000, 25, 1059-1068.	7.1	29

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109	The rhodium complex of bis(diphenylphosphinomethyl)dopamine-coated magnetic nanoparticles as an efficient and reusable catalyst for hydroformylation of olefins. New Journal of Chemistry, 2015, 39, 7293-7299.	2.8	29
110	Free growth of one-dimensional Î²-Ga2O3 nanostructures including nanowires, nanobelts and nanosheets using a thermal evaporation method. Ceramics International, 2016, 42, 13343-13349.	4.8	29
111	Co²⁺ substituted La₂CuO₄/LaCoO₃ perovskite nanocomposites: synthesis, properties and heterogeneous catalytic performance. New Journal of Chemistry, 2018, 42, 18128-18142.	2.8	29
112	Epoxy resin/plasticized carbon black composites. Part I. Electrical and thermal properties and their applications. Polymer Composites, 2008, 29, 511-517.	4.6	28
113	Structural, microstructural, and optical properties of Zn1â^'x Mg x O thin films grown onto glass substrate by ultrasonic spray pyrolysis. Applied Physics A: Materials Science and Processing, 2015, 120, 745-755.	2.3	28
114	Effect of Ce and Cu co-doping on the structural, morphological, and optical properties of ZnO nanocrystals and first principle investigation of their stability and magnetic properties. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 209-220.	2.7	28
115	Investigation of structural, surface morphological, optical properties and first-principles study on electronic and magnetic properties of (Ce, Fe)-co doped ZnO. Physica B: Condensed Matter, 2015, 456, 344-354.	2.7	28
116	Structural and magnetic properties and DFT analysis of ZnO:(Al,Er) nanoparticles. RSC Advances, 2017, 7, 32931-32941.	3.6	28
117	Structural, magnetic and catalytic properties of La2-Ba CuO4 (0â€¯â‰¤â€¯xâ€¯â‰¤â€¯0.5) perovskite nanoparticles. Ceramics International, 2018, 44, 18113-18122.	4.8	28
118	The influence of cationic surfactant CTAB on optical, dielectric and magnetic properties of cobalt ferrite nanoparticles. Ceramics International, 2020, 46, 11705-11716.	4.8	28
119	Novel SnO2-coated Î²-Ga2O3 nanostructures for room temperature hydrogen gas sensor. International Journal of Hydrogen Energy, 2021, 46, 7000-7010.	7.1	28
120	Structural, Magnetic, and Electrical Properties of Microwave-Sintered Cr3+-Doped Sr Hexaferrites. Journal of Electronic Materials, 2015, 44, 524-531.	2.2	27
121	Structural, optical and photocatalytic properties of ZnO nanorods: Effect of aging time and number of layers. Ceramics International, 2016, 42, 9673-9685.	4.8	27
122	Structural studies of Laves phases Zr(Cr1â^'xNix)2 with 0â‰¤xâ‰¤0.4 and their hydrides. Journal of Alloys and Compounds, 1997, 257, 82-90.	5.5	26
123	Natural rubber filled SiC and B₄C ceramic composites as a new NTC thermistors and piezoresistive sensor materials. Polymer Composites, 2008, 29, 109-118.	4.6	26
124	Optical and Magnetic Properties of Co-Doped CuO Flower/Plates/Particles-Like Nanostructures. Journal of Nanoscience and Nanotechnology, 2014, 14, 2577-2583.	0.9	26
125	High-performance pâ€“n heterojunction photodetectors based on V2O5 nanorods by spray pyrolysis. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	26
126	Self heating efficiency of CoFe2O4 nanoparticles: A comparative investigation on the conventional and microwave combustion method. Journal of Alloys and Compounds, 2018, 735, 1536-1545.	5.5	26

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127	Structural and Electrical Characterization of Ba/ZnO Nanoparticles Fabricated by Co-precipitation. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 2633-2644.	3.7	26
128	Composite zeolite beta catalysts for catalytic hydrocracking of plastic waste to liquid fuels. Materials for Renewable and Sustainable Energy, 2020, 9, 1.	3.6	26
129	Effects of the voltage and time of anodization on modulation of the pore dimensions of AAO films for nanomaterials synthesis. Superlattices and Microstructures, 2015, 88, 489-500.	3.1	25
130	Growth and conversion of Î²-Ga2O3 nanobelts into GaN nanowires via catalyst-free chemical vapor deposition technique. Superlattices and Microstructures, 2013, 54, 215-224.	3.1	24
131	A computational perspective on equilibrium geometry, vibrational spectra and electronic structure of antioxidant active Mannich base 1-[(Pyridin-2-yl amino) methyl] pyrrolidine-2,5-dione. Journal of Molecular Structure, 2014, 1072, 153-172.	3.6	24
132	The effect of hydrogen on the mechanical properties of FeTi for hydrogen storage applications. International Journal of Hydrogen Energy, 2014, 39, 12667-12675.	7.1	24
133	Effect of Ag doping of TiO2 nanoparticles on anatase-rutile phase transformation and excellent photodegradation of amlodipine besylate. Materials Letters, 2019, 236, 640-643.	2.6	24
134	Low temperature solvothermal synthesis of pristine Co3O4 nanoparticles as potential supercapacitor. Surfaces and Interfaces, 2020, 19, 100535.	3.0	24
135	Structure, microstructure and determination of optical constants from transmittance data of co-doped Zn0.90Co0.05M0.05O (M Al, Cu, Cd, Na) films. Journal of Alloys and Compounds, 2014, 599, 150-158.	5.5	23
136	Pt-decorated GaN nanowires with significant improvement in H 2 gas-sensing performance at room temperature. Journal of Colloid and Interface Science, 2015, 460, 135-145.	9.4	23
137	Structural and optical characteristics of Ti-doped ZnO nanorods deposited by simple chemical bath deposition. Journal of Materials Science: Materials in Electronics, 2017, 28, 11178-11185.	2.2	23
138	La-doped Ni_{0.5}Co_{0.5}Fe₂O₄ nanoparticles: effect of cobalt precursors on structure and morphology. Molecular Crystals and Liquid Crystals, 2018, 674, 110-119.	0.9	23
139	High-performance supercapacitor based on Cu2O/MoS2/rGO nanocomposite. Materials Letters, 2020, 275, 128095.	2.6	23
140	Improved kinetics by the multiphase alloys prepared from Laves phases and LaNi5. Journal of Alloys and Compounds, 1999, 288, 229-237.	5.5	22
141	Influence of sprayed nanocrystalline Zn-doped TiO2 photoelectrode with the dye extracted from Hibiscus Surattensis as sensitizer in dye-sensitized solar cell. Ceramics International, 2016, 42, 11136-11149.	4.8	22
142	Magnetic nanoparticle-supported ferrocenylphosphine: a reusable catalyst for hydroformylation of alkene and Mizorokiâ€“Heck olefination. RSC Advances, 2016, 6, 41687-41695.	3.6	22
143	Structural, optical, and magnetic properties of Ca2+ doped La2CuO4 perovskite nanoparticles. Vacuum, 2019, 167, 407-415.	3.5	22
144	Comprehensive photoresponse study on high performance and flexible Ï€-SnS photodetector with near-infrared response. Materials Science in Semiconductor Processing, 2019, 100, 270-274.	4.0	22

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145	Effect of acid nature in the starting solution on surface and photocatalytic properties of TiO2 thin films. Surface and Coatings Technology, 2014, 251, 170-176.	4.8	21
146	Milled goethite nanocrystalline for selective and fast uptake of cadmium ions from aqueous solution. Desalination and Water Treatment, 2016, 57, 6531-6539.	1.0	21
147	High sensitivity extended gate effect transistor based on V2O5 nanorods. Journal of Materials Science: Materials in Electronics, 2017, 28, 1364-1369.	2.2	21
148	Fabrication and characterization of nanostructured MgOÂ·Fe2O3 composite by mechanical milling as efficient adsorbent of heavy metals. Journal of Alloys and Compounds, 2019, 772, 1030-1039.	5.5	21
149	DC conductivity and magnetic properties of piezoelectricâ€“piezomagnetic composite system. Journal of Magnetism and Magnetic Materials, 2012, 324, 4118-4126.	2.3	20
150	Structural and optical properties of nanocrystalline lead sulfide thin films prepared by microwave-assisted chemical bath deposition. Materials Science in Semiconductor Processing, 2013, 16, 971-979.	4.0	20
151	Characterization of V2O5 nanorods grown by spray pyrolysis technique. Journal of Materials Science: Materials in Electronics, 2016, 27, 4613-4621.	2.2	20
152	Microwave-assisted synthesis, characterization and antibacterial properties of Ceâ€“Cu dual doped ZnO nanostructures. Optik, 2016, 127, 2360-2365.	2.9	20
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