

Saira Riaz

List of Publications by Year in descending order

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234
papers

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159585

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235
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235
times ranked

4870
citing authors

#	ARTICLE	IF	CITATIONS
1	Size- and Shape-Dependent Antibacterial Studies of Silver Nanoparticles Synthesized by Wet Chemical Routes. <i>Nanomaterials</i> , 2016, 6, 74.	4.1	525
2	Gold Nanoparticles: An Efficient Antimicrobial Agent against Enteric Bacterial Human Pathogen. <i>Nanomaterials</i> , 2016, 6, 71.	4.1	239
3	Synthesis and investigation of structural, morphological, magnetic, dielectric and impedance spectroscopic characteristics of Ni-Zn ferrite nanoparticles. <i>Ceramics International</i> , 2017, 43, 2486-2494.	4.8	120
4	Characterization of Copper Oxide Nanoparticles Fabricated by the Sol-Gel Method. <i>Journal of Electronic Materials</i> , 2015, 44, 3704-3709.	2.2	117
5	Magnetic Properties of Polyvinyl Alcohol and Doxorubicine Loaded Iron Oxide Nanoparticles for Anticancer Drug Delivery Applications. <i>PLoS ONE</i> , 2016, 11, e0158084.	2.5	79
6	Microwave-Assisted Green Synthesis and Characterization of Silver Nanoparticles Using <i>Melia azedarach</i> for the Management of Fusarium Wilt in Tomato. <i>Frontiers in Microbiology</i> , 2020, 11, 238.	3.5	74
7	Room-temperature ferromagnetism in Ni-doped TiO ₂ diluted magnetic semiconductor thin films. <i>Journal of Applied Research and Technology</i> , 2017, 15, 132-139.	0.9	68
8	Tunable structural and electrical impedance properties of pyrochlores based Nd doped lanthanum zirconate nanoparticles for capacitive applications. <i>Ceramics International</i> , 2018, 44, 2170-2177.	4.8	66
9	Temperature-Dependent Magnetic Response of Antiferromagnetic Doping in Cobalt Ferrite Nanostructures. <i>Nanomaterials</i> , 2016, 6, 73.	4.1	65
10	Structural and complex impedance spectroscopic studies of Mg-substituted CoFe ₂ O ₄ . <i>Ceramics International</i> , 2016, 42, 18271-18282.	4.8	64
11	Photocatalytic, antibacterial, optical and magnetic properties of Fe-doped ZnO nano-particles prepared by sol-gel. <i>Materials Science in Semiconductor Processing</i> , 2018, 88, 109-119.	4.0	64
12	Synthesis and characterization of silver nanoparticle-decorated cobalt nanocomposites (Co@AgNPs) and their density-dependent antibacterial activity. <i>Royal Society Open Science</i> , 2019, 6, 182135.	2.4	62
13	Magnetic and antibacterial studies of sol-gel dip coated Ce doped TiO ₂ thin films: Influence of Ce contents. <i>Ceramics International</i> , 2020, 46, 381-390.	4.8	60
14	Structural, optical, magnetic and half-metallic studies of cobalt doped ZnS thin films deposited via chemical bath deposition. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6755-6763.	5.5	59
15	Fabrication and properties of zinc oxide thin film prepared by sol-gel dip coating method. <i>Materials Science-Poland</i> , 2015, 33, 515-520.	1.0	59
16	Nanocrystalline Zn _{1-x} Co _{0.5} Ni _{0.5} Fe ₂ O ₄ ferrites: Fabrication via co-precipitation route with enhanced magnetic and electrical properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 56-61.	2.3	54
17	Enhanced magnetic, antibacterial and optical properties of Sm doped ZnO thin films: Role of Sm doping. <i>Optical Materials</i> , 2020, 108, 110457.	3.6	51
18	Numerical Modeling and Optimization of Lead-Free Hybrid Double Perovskite Solar Cell by Using SCAPS-1D. <i>Journal of Renewable Energy</i> , 2021, 2021, 1-12.	3.6	46

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19	Synthesis of Iron Oxide Nanoparticles by Sol-Gel Technique and Their Characterization. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	45
20	Efficient energy storage and fast switching capabilities in Nd-substituted La ₂ Sn ₂ O ₇ pyrochlores. Chemical Engineering Journal, 2020, 396, 125198.	12.7	37
21	Antimicrobial activity of citric acid functionalized iron oxide nanoparticles –Superparamagnetic effect. Ceramics International, 2020, 46, 10942-10951.	4.8	36
22	Optimising conditions for the growth of nanocrystalline ZnS thin films from acidic chemical baths. Materials Science in Semiconductor Processing, 2015, 30, 292-297.	4.0	35
23	Sol-gel based fiber optic pH nanosensor: Structural and sensing properties. Sensors and Actuators A: Physical, 2016, 238, 8-18.	4.1	35
24	A Comparative Assessment of Nanotoxicity Induced by Metal (Silver, Nickel) and Metal Oxide (Cobalt,) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.1	35
25	Preparation and characterization of crack-free sol-gel based SiO ₂ -TiO ₂ hybrid nanoparticle film. Journal of Sol-Gel Science and Technology, 2013, 68, 162-168.	2.4	34
26	Role of Mn in biological, optical, and magnetic properties ZnO nano-particles. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	34
27	Sol-gel based phenolphthalein encapsulated heterogeneous silica-titania optochemical pH nanosensor. Journal of Industrial and Engineering Chemistry, 2016, 34, 258-268.	5.8	33
28	Correlation between particle size and magnetic characteristics of Mn-substituted ZnFe ₂ O ₄ ferrites. Superlattices and Microstructures, 2016, 93, 50-56.	3.1	33
29	Synthesis of NiO nanoparticles by sol-gel technique. Materials Science-Poland, 2018, 36, 547-552.	1.0	33
30	Optical properties and antibacterial activity of V doped ZnO used in solar cells and biomedical applications. Materials Research Bulletin, 2019, 115, 121-129.	5.2	32
31	Microwave assisted synthesis and antimicrobial activity of Fe ₃ O ₄ -doped ZrO ₂ nanoparticles. Ceramics International, 2019, 45, 10106-10113.	4.8	31
32	Effect of Cu-Doped Nickel Ferrites on Structural, Magnetic, and Dielectric Properties. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	30
33	Optical and structural properties of thin films of ZnO at elevated temperature. Journal of Alloys and Compounds, 2014, 606, 177-181.	5.5	30
34	Structural, Electrical and Magnetic Properties of Iron Oxide Thin Films. Advanced Science Letters, 2013, 19, 828-833.	0.2	30
35	Room temperature stabilized TiO ₂ doped ZrO ₂ thin films for teeth coatings –A sol-gel approach. Journal of Alloys and Compounds, 2018, 767, 1238-1252.	5.5	29
36	Assessment of antibacterial and optical features of sol-gel dip coated La doped TiO ₂ thin films. Materials Chemistry and Physics, 2020, 250, 123217.	4.0	29

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37	Mesoporous SiO ₂ @TiO ₂ nanocomposite for pH sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 993-1002.	7.8	28
38	Inhibition mechanism of green-synthesized copper oxide nanoparticles from <i>Cassia fistula</i> towards <i>Fusarium oxysporum</i> by boosting growth and defense response in tomatoes. <i>Environmental Science: Nano</i> , 2021, 8, 1729-1748.	4.3	28
39	Effect of Cu doping on the structural, magnetic and optical properties of ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	27
40	Investigation of structural, electrical, electrical polarization and dielectric properties of CTAB assisted Ni ²⁺ substituted R-type nano-hexaferrites. <i>Journal of Alloys and Compounds</i> , 2019, 770, 1112-1118.	5.5	27
41	Sol-gel synthesis and investigation of structural, electrical and magnetic properties of Pb doped La _{0.1} Bi _{0.9} FeO ₃ multiferroics. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 352-356.	2.4	25
42	Synthesis and characterization of multilayered sol-gel based plastic-clad fiber optic pH sensor. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 140-144.	5.8	25
43	Surfactant and template free synthesis of porous ZnS nanoparticles. <i>Materials Chemistry and Physics</i> , 2017, 189, 28-34.	4.0	25
44	Surface functionality and optical properties impact of phenol red dye on mesoporous silica matrix for fiber optic pH sensing. <i>Sensors and Actuators A: Physical</i> , 2018, 276, 267-277.	4.1	25
45	Correlation of La-mediated structural transition and dielectric relaxation in Bi ₂ Mg ₂ /3Nb ₄ /3O ₇ pyrochlores. <i>Ceramics International</i> , 2019, 45, 14576-14585.	4.8	25
46	Structural, optical and magnetic properties of manganese zinc oxide thin films prepared by sol-gel dip coating method. <i>Superlattices and Microstructures</i> , 2015, 82, 472-482.	3.1	24
47	Magneto-electric characteristics in (Mn, Cu) co-doped BiFeO ₃ multiferroic nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8966-8972.	2.2	24
48	Microwave assisted sol-gel synthesis of bioactive zirconia nanoparticles – Correlation of strength and structure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104012.	3.1	23
49	Biosynthesis, characterization and anti-dengue vector activity of silver nanoparticles prepared from <i>Azadirachta indica</i> and <i>Citrullus colocynthis</i> . <i>Royal Society Open Science</i> , 2020, 7, 200540.	2.4	23
50	Synthesis and characterization of hybrid matrix with encapsulated organic sensing dyes for pH sensing application. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4408-4414.	5.8	22
51	Magnetic and Magnetization Properties of Co-Doped Fe ₂ O ₃ /ZnO ₃ Thin Films. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	22
52	Dip coated nickel zinc oxide thin films: Structural, optical and magnetic investigations. <i>Superlattices and Microstructures</i> , 2015, 77, 171-180.	3.1	22
53	Electronic and Structural Properties of Phase-Pure Magnetite Thin Films: Effect of Preferred Orientation. <i>Journal of Electronic Materials</i> , 2018, 47, 6613-6624.	2.2	22
54	Structural tuning of dielectric properties of Ce-substituted Nd ₂ Zr ₂ O ₇ . <i>Journal of Saudi Chemical Society</i> , 2019, 23, 397-406.	5.2	22

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55	Peculiar magnetic behavior and structural, electrical, dielectric properties of substituted R-type hexagonal ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166309.	2.3	22
56	Antibacterial, magnetic, optical and dielectric analysis of novel La ₂ O ₃ doped ZnO thin films. <i>Optical Materials</i> , 2020, 109, 110287.	3.6	22
57	Structural, Optical, and Dielectric Properties of Aluminum Oxide Nanofibers Synthesized by a Lower-Temperature Sol-Gel Approach. <i>Journal of Electronic Materials</i> , 2016, 45, 5185-5197.	2.2	21
58	Study of structural, magnetic and microwave absorption properties of Dy-Mn substituted nanosized material in X-band frequency range. <i>Journal of Alloys and Compounds</i> , 2017, 715, 284-290.	5.5	21
59	Transparent boron-doped zinc oxide films for antibacterial and magnetic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11911-11926.	2.2	21
60	Determination of dual magnetic phases and the study of structural, dielectric, electrical, surface morphological, optical properties of Ce ³⁺ substituted hexagonal ferrites. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164324.	5.5	21
61	Room Temperature Magnetic Behavior of Sol-Gel Synthesized Mn Doped ZnO. <i>Chinese Journal of Chemical Physics</i> , 2010, 23, 469-472.	1.3	20
62	Role of precursor to solvent ratio in tuning the magnetization of iron oxide thin films – A sol-gel approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 14-24.	2.3	20
63	Tuning of optical and antibacterial characteristics of ZnO thin films: Role of Ce content. <i>Ceramics International</i> , 2019, 45, 3930-3939.	4.8	20
64	In-vitro hemolytic activity and free radical scavenging by sol-gel synthesized Fe ₃ O ₄ stabilized ZrO ₂ nanoparticles. <i>Arabian Journal of Chemistry</i> , 2020, 13, 7598-7608.	4.9	20
65	Simultaneous normal – Anomalous dielectric dispersion and room temperature ferroelectricity in CBD perovskite BaTiO ₃ thin films. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11439-11452.	5.8	20
66	Self-assembled hierarchical phenolphthalein encapsulated silica nanoparticles: Structural, optical and sensing response. <i>Sensors and Actuators A: Physical</i> , 2017, 266, 111-121.	4.1	19
67	Probe of ZrTiO ₂ thin films with TiO ₂ -ZrO ₂ binary oxides deposited by dip coating technique. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 183, 357-366.	3.8	19
68	Tunable structural and electrical impedance properties of ordered and disordered iron oxide phases for capacitive applications. <i>Ceramics International</i> , 2018, 44, 16352-16364.	4.8	19
69	La ³⁺ -substituted $\hat{1}^2$ -ferrite: Investigation of structural, dielectric, FTIR and electrical polarization properties. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154854.	5.5	19
70	Optically active-thermally stable multi-dyes encapsulated mesoporous silica aerogel: A potential pH sensing nanomatrix. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 183-189.	4.4	18
71	Effect of in-situ oxidation on structure and ferromagnetic properties of Fe ₃ Al and FeAl ₂ O ₄ thin films prepared by electrodeposition. <i>Ceramics International</i> , 2018, 44, 9550-9560.	4.8	17
72	Biological and optical properties of sol-gel derived ZnO using different percentages of silver contents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 383-390.	5.0	17

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73	Effect of Co doping on the physical properties of Co-doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 5953-5961.	2.2	16
74	A comparative study of graphene growth by APCVD, LPCVD and PECVD. Materials Research Express, 2018, 5, 035606.	1.6	16
75	Influence of organic pH dyes on the structural and optical characteristics of silica nanostructured matrix for fiber optic sensing. Sensors and Actuators A: Physical, 2018, 282, 28-38.	4.1	16
76	Characteristics of Al-doped ZnO:Ni films grown on glass by sol-gel dip coating technique. Journal of Saudi Chemical Society, 2017, 21, 425-433.	5.2	15
77	Thermally activated variations in conductivity and activation energy in SrMnO ₃ . Journal of Materials Science: Materials in Electronics, 2017, 28, 7171-7176.	2.2	15
78	Crack-free high surface area silica-titania nanocomposite coating as opto-chemical sensor device. Sensors and Actuators A: Physical, 2018, 270, 153-161.	4.1	15
79	Optical CO ₂ Gas Sensing Based on TiO ₂ Thin Films of Diverse Thickness Decorated with Silver Nanoparticles. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.8	15
80	Highly stable dielectric frequency response of chemically synthesized Mn-substituted ZnFe ₂ O ₄ . Journal of Saudi Chemical Society, 2019, 23, 417-426.	5.2	15
81	Ferromagnetic ordering and electromagnons in microwave synthesized BiFeO ₃ thin films. Journal of Magnetism and Magnetic Materials, 2019, 475, 60-69.	2.3	15
82	Dip-coated V doped ZnO thin films: Dielectric and magnetic properties. Ceramics International, 2020, 46, 14605-14612.	4.8	15
83	Effect of post-deposition annealing temperature on the charge carrier mobility and morphology of DPPDTT based organic field effect transistors. Chemical Physics Letters, 2020, 750, 137507.	2.6	15
84	CNTs embedded in layered Zn-doped Co ₃ O ₄ nano-architectures as an efficient hybrid anode material for SIBs. Journal of Alloys and Compounds, 2021, 867, 158730.	5.5	15
85	Synthesis of bone implant substitutes using organic additive based zirconia nanoparticles and their biodegradation study. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 48-57.	3.1	14
86	Honey mediated microwave assisted sol-gel synthesis of stabilized zirconia nanofibers. Journal of Sol-Gel Science and Technology, 2018, 87, 554-567.	2.4	14
87	Antibacterial performance of glucose-fructose added MW based zirconia coatings - Possible treatment for bone infection. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103621.	3.1	14
88	Structural confirmation and elucidation of optical, photo-catalytic and antibacterial properties of cerium doped Bi ₂ O ₄ . Journal of Physics and Chemistry of Solids, 2021, 155, 110104.	4.0	14
89	Sustainable synthesis of microwave-assisted IONPs using Spinacia oleracea L. for control of fungal wilt by modulating the defense system in tomato plants. Journal of Nanobiotechnology, 2022, 20, 8.	9.1	14
90	Sol-gel-based single and multilayer nanoparticle thin films on low-temperature substrate poly-methyl methacrylate for optical applications. Journal of Sol-Gel Science and Technology, 2016, 77, 396-403.	2.4	13

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91	Thermally assisted electro-active regions in SrMnO ₃ ceramics. Materials Chemistry and Physics, 2017, 200, 128-135.	4.0	13
92	Synthesis of optically active bromophenol blue encapsulated mesoporous silica-titania nanomatrix: structural and sensing characteristics. Journal of Sol-Gel Science and Technology, 2018, 85, 231-242.	2.4	13
93	CR incorporation in mesoporous silica matrix for fiber optic pH sensing. Sensors and Actuators A: Physical, 2018, 280, 429-436.	4.1	13
94	Silica-titania nanocomposite based fiber optic sensor for aromatic hydrocarbons detection. Optics Communications, 2020, 471, 125825.	2.1	13
95	CNTs/ZnO and CNTs/ZnO/Ag multilayers spray coated on cellulose fiber for use as an efficient humidity sensor. Ceramics International, 2020, 46, 25593-25597.	4.8	13
96	Ferromagnetic Effects in Cr-Doped Fe ₂ O ₃ Thin Films. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	12
97	Microwave Assisted Iron Oxide Nanoparticles Structural and Magnetic Properties. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	12
98	Effect of Fe ³⁺ /Fe ²⁺ Ratio on Superparamagnetic Behavior of Spin Coated Iron Oxide Thin Films. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	12
99	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. Nanomaterials, 2016, 6, 72.	4.1	12
100	Structural, optical and magnetic properties of aluminum doped MnZnO films deposited by dip coating. Journal of Alloys and Compounds, 2016, 662, 489-496.	5.5	12
101	Influence of ZnO doping on structural, optical and pH-stimulus characteristics of silica-titania nanocomposite matrix. Journal of Saudi Chemical Society, 2018, 22, 826-837.	5.2	12
102	Magneto-dielectric properties of in-situ oxidized magnesium-aluminium spinel thin films using electrodeposition. Ceramics International, 2020, 46, 8588-8600.	4.8	12
103	Dielectric and magnetic properties of dilute magnetic semiconductors Ag-doped ZnO thin films. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	12
104	Antibacterial, magnetic and dielectric properties of nano-structured V doped TiO ₂ thin films deposited by dip coating technique. Materials Chemistry and Physics, 2021, 267, 124659.	4.0	12
105	Magnetic Properties of Fe ₃ O ₄ Stabilized Zirconia. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	11
106	Effect of Solvents on the Ferromagnetic Behavior of Undoped BiFeO ₃ Prepared by Sol-Gel. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	11
107	Magnetic, Structural, and Dielectric Properties of Bi _{1-x} K _x FeO ₃ Thin Films Using Sol-Gel. IEEE Transactions on Magnetics, 2014, 50, 1-4.		
108	Structural, Optical, and Magnetic Properties of Cobalt-Doped Dip Coated ZnO Films. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	11

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109	Effect of Calcination on Structural and Magnetic Properties of Co-Doped ZnO Nanostructures. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	11
110	Enhanced microwave absorption properties of CTAB assisted Pr ²⁺ Cu substituted nanomaterial. Journal of Magnetism and Magnetic Materials, 2016, 414, 198-203.	2.3	11
111	Sol-gel based optically active phenolphthalein encapsulated nanomaterials for sensing application. Journal of Sol-Gel Science and Technology, 2016, 79, 616-627.	2.4	11
112	Optical, magnetic and structural properties of Cr-doped ZnO thin films by sol-gel dip-coating method. Materials Research Express, 2017, 4, 096403.	1.6	11
113	Role of Ni ²⁺ Ions in Magnetite Nano-particles Synthesized by Co-precipitation Method. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1177-1186.	1.8	11
114	Molarity dependent oscillatory structural and magnetic behavior of phase pure BiFeO ₃ thin films: Sol-gel approach. Ceramics International, 2019, 45, 5111-5123.	4.8	11
115	Investigation of structural, optical and magnetic characteristics of Co ₃ O ₄ thin films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	11
116	Solvent mediated phase stability and temperature dependent magnetic modulation in BiFeO ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 503, 166563.	2.3	11
117	Colossal dielectric constant and ferroelectric investigation of BaTiO ₃ nano-ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 5402-5415.	2.2	11
118	Enhanced structural and magnetic ordering in as-synthesized Ca doped bismuth iron oxide nanoceramics. Journal of Alloys and Compounds, 2020, 832, 154725.	5.5	11
119	Structural and Magnetic Properties of Mn/Fe co-Doped ZnO Thin Films Prepared by Sol-Gel Technique. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
120	Free Growth of Iron Oxide Nanostructures by Sol-Gel Spin Coating Technique—Structural and Magnetic Properties. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	10
121	Effect of Bi/Fe Ratio on the Structural and Magnetic Properties of BiFeO ₃ Thin Films by Sol-Gel. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
122	Thermal tuning of electrical and dielectric characteristics of Mn-doped Zn _{0.95} Fe _{0.05} O dilute magnetic semiconductors. Journal of Materials Science: Materials in Electronics, 2018, 29, 3943-3951.	2.2	10
123	Tuning of opto-electrical properties of hematite thin films using Co ²⁺ doping. Journal of Materials Science: Materials in Electronics, 2019, 30, 4203-4218.	2.2	10
124	Mesoporous anatase based opto-chemical sensor. Materials Science in Semiconductor Processing, 2019, 100, 236-244.	4.0	10
125	Optically active phenolphthalein encapsulated gold nanodendrites for fiber optic pH sensing. Applied Surface Science, 2019, 485, 323-331.	6.1	10
126	On the Operational, shelf life and degradation mechanism in polymer field effect transistors. Superlattices and Microstructures, 2019, 126, 125-131.	3.1	10

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127	Theoretical and Experimental Investigation of Microwave Absorbing X-Type Hexaferrites Nanomaterial Synthesized by Cotton Soaked Method. IEEE Transactions on Magnetics, 2020, 56, 1-10.	2.1	10
128	Thermally stable Au decorated silica-titania mesoporous nanocomposite for pH sensing evaluation. Applied Surface Science, 2020, 521, 146329.	6.1	10
129	Characterization and curve fittings of Mg ⁺² substituted R-type hexagonal ferrites. Physica B: Condensed Matter, 2021, 605, 412642.	2.7	10
130	Tangerine mediated synthesis of zirconia as potential protective dental coatings. Materials Science and Engineering C, 2021, 120, 111653.	7.3	10
131	Microwave assisted synthesis of Fe ₃ O ₄ stabilized ZrO ₂ nanoparticles – Free radical scavenging, radiolabeling and biodistribution in rabbits. Life Sciences, 2021, 271, 119070.	4.3	10
132	Sol-gel synthesized boron nitride (BN) thin films for antibacterial and magnetic applications. Optik, 2021, 243, 167502.	2.9	10
133	Analysis of the Nd dopant on optical, dielectric and biological properties of ZnO nanostructures. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105016.	3.1	10
134	Fabrication and characterization of Ni _{1+x} Zr _x Fe _{2-2x} O ₄ nanoparticles for potential applications in high frequency devices. Ceramics International, 2016, 42, 16359-16363.	4.8	9
135	Deposition of porous titanium oxide thin films as anti-fogging and anti-reflecting medium. Optik, 2016, 127, 5124-5127.	2.9	9
136	Structural, Optical and Magnetic Properties of Nanocrystalline Co-Doped ZnO Thin Films Grown by Sol-Gel. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 73, 13-21.	1.5	9
137	Substituted Mg-Co-nanoferrite: recyclable magnetic photocatalyst for the reduction of methylene blue and degradation of toxic dyes. Journal of Materials Science: Materials in Electronics, 2017, 28, 2250-2256.	2.2	9
138	Investigation of Fe doping on the magnetic and optical properties of ZnO thin films. Materials Research Express, 2018, 5, 036418.	1.6	9
139	Synthesis of surfactant-coated cobalt ferrite nanoparticles for adsorptive removal of acid blue 45 dye. Materials Research Express, 2018, 5, 035058.	1.6	9
140	Preparation and characterization of doubly substituted microwave absorbing material by sol-gel technique for super high frequency applications. Progress in Natural Science: Materials International, 2018, 28, 478-482.	4.4	9
141	BPB dye confined growth of surfactant-assisted mesostructured silica matrix fiber optic sensing tracers. Journal of Saudi Chemical Society, 2019, 23, 427-438.	5.2	9
142	Tunable properties of rare earth elements (Ce, Dy, Yb, La and Pr) substituted R-type hexagonal ferrites. Journal of Materials Science: Materials in Electronics, 2019, 30, 19394-19403.	2.2	9
143	Tailoring of optical, biological and magnetic properties of nanocrystalline Fe doped TiO ₂ thin films. Materials Research Express, 2019, 6, 1250h2.	1.6	9
144	Role of Ca doping on oxygen vacancy production in modulating dielectric, ferroelectric and magnetic polarization in BaTiO ₃ thin films. Journal of Materials Research and Technology, 2022, 16, 993-1007.	5.8	9

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145	Uptake and clearance analysis of Technetium ^{99m} labelled iron oxide nanoparticles in a rabbit brain. IET Nanobiotechnology, 2015, 9, 136-141.	3.8	8
146	FeAl ₂ O ₄ Thin Films Prepared by Sol-gel – Structural and Magnetic Properties. Materials Today: Proceedings, 2015, 2, 5150-5154.	1.8	8
147	Magnetically driven robust polarization in (1-x)BiFeO ₃ -xPbTiO ₃ multiferroic composites. Materials Letters, 2019, 238, 10-12.	2.6	8
148	Enhancement in the mobility of solution processable polymer based FET by incorporating graphene interlayer. Superlattices and Microstructures, 2020, 137, 106331.	3.1	8
149	Fast responsive thermally stable silica microspheres for sensing evaluation: sol-gel approach. Journal of Sol-Gel Science and Technology, 2020, 96, 614-626.	2.4	8
150	STRUCTURAL AND MAGNETIC PROPERTIES OF THIN FILM OF IRON NITRIDE. Surface Review and Letters, 2014, 21, 1450013.	1.1	7
151	Effects of Temperature on Zirconia Nanoparticles During and after Synthesis. Materials Today: Proceedings, 2015, 2, 5786-5792.	1.8	7
152	Carriers mediated magnetic and impedance spectroscopic analysis of sol-gel synthesized Zn _{0.95} Mn _x Fe _{0.05} O (0 ≤ x ≤ 0.05) DMSs. Journal of Sol-Gel Science and Technology, 2016, 79, 535-542.	2.4	7
153	Pulsed laser deposition of SmCo thin films for MEMS applications. Journal of Applied Research and Technology, 2016, 14, 287-292.	0.9	7
154	Study of the structural and electronic properties of FeO at the LDA and GGA level. Chinese Journal of Physics, 2017, 55, 1135-1141.	3.9	7
155	Fabrication and characterization of nanocrystalline Al, Co:ZnO thin films by a sol-gel dip coating. Optical and Quantum Electronics, 2017, 49, 1.	3.3	7
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