Wasi Khan

List of Publications by Year in descending order

106 papers	3,228 citations	136740 32 h-index	168136 53 g-index
106 all docs	106 docs citations	106 times ranked	3727 citing authors

#	Article	IF	Citations
1	Polaron hopping conduction mechanism and magnetic properties of Pbâ€doped LaMnO₃. Journal of the American Ceramic Society, 2022, 105, 348-361.	1.9	3
2	Synthesis and role of structural disorder on the optical, magnetic and dielectric properties of Zn doped NiFe2O4 nanoferrites. Journal of Molecular Structure, 2022, 1253, 132205.	1.8	10
3	Study of structural correlations with temperature dependent dielectric response and ferroelectric behavior for (Sr, Mn) co-doped BaTiO3. Journal of Materials Science: Materials in Electronics, 2022, 33, 6329-6353.	1.1	10
4	Structural and electrochemical properties of GO/Mn3O4 nanocomposite. Journal of Materials Science: Materials in Electronics, 2021, 32, 3894-3902.	1.1	6
5	Tuning of magnetic properties and multiferroic nature: case study of cobalt-doped NdFeO3. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	9
6	Modification of magnetic properties, energy band gap and conduction mechanism of lanthanum orthochromite via (Sm, Fe) codoping. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	2
7	Raman scattering, electronic transport and dielectric features of Co-doped DyCrO3. Journal of Materials Science: Materials in Electronics, 2021, 32, 15108-15133.	1.1	5
8	Structural modifications and enhanced ferroelectric nature of NdFeO3â€“PbTiO3 composites. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	16
9	Microstructure, optical and dielectric properties of cobalt-doped zinc ferrite nanostructures. Journal of Materials Science: Materials in Electronics, 2021, 32, 21988-22002.	1.1	14
10	The effect of Ni doping on the structural, optical and dielectric properties of nanocrystalline YbCrO3. Journal of Physics and Chemistry of Solids, 2021, 159, 110280.	1.9	6
11	Influence of Ni doping on physical properties of La0.7Sr0.3FeO3 synthesized by reverse micelle technique. Journal of Materials Science: Materials in Electronics, 2021, 32, 3753-3765.	1.1	3
12	Thermally stimulated small polaron promoted conduction mechanism in Fe-doped La0.7Sm0.3CrO3. Journal of Physics and Chemistry of Solids, 2020, 138, 109281.	1.9	8
13	Role of Cr doping in tuning the optical and dielectric properties of TiO2 nanostructures. Materials Chemistry and Physics, 2020, 256, 123641.	2.0	22
14	Ropinirole silver nanocomposite attenuates neurodegeneration in the transgenic Drosophila melanogaster model of Parkinson's disease. Neuropharmacology, 2020, 177, 108216.	2.0	7
15	Correlation between structure, dielectric and multiferroic properties of lead free Ni modified BaTiO3 solid solution. Ceramics International, 2020, 46, 27336-27351.	2.3	48
16	Silver-Decorated Cobalt Ferrite Nanoparticles Anchored onto the Graphene Sheets as Electrode Materials for Electrochemical and Photocatalytic Applications. ACS Omega, 2020, 5, 31076-31084.	1.6	52
17	Influence of Ni doping on the optical properties of BiFeO3 multiferroic. AIP Conference Proceedings, 2020, , .	0.3	1
18	A comparative study of ZnO nanostructures synthesized via sol-gel and hydrothermal processes. AIP Conference Proceedings, 2020, , .	0.3	2

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19	Modified multiferroic behavior: A case study of NdFeO3-SrTiO3 composite. AIP Conference Proceedings, 2020, , .	0.3	1
20	Microstructural and dielectric relaxation study of Gd3+ ion substituted MgFe2O4. AIP Conference Proceedings, 2020, , .	0.3	5
21	Influence of Mn doping on dielectric properties, conduction mechanism and photocatalytic nature of gadolinium-based orthochromites. Journal of Materials Science: Materials in Electronics, 2020, 31, 9335-9351.	1.1	23
22	Investigation of structural, optical, electrical, and magnetic properties of Feâ€doped La_{0.7}Sr_{0.3}MnO₃ manganites. International Journal of Applied Ceramic Technology, 2020, 17, 2430-2438.	1.1	13
23	Unravelling the effect of Ni doping on the structural, optical and dielectric properties of nanocrystalline SnO2. Chinese Journal of Physics, 2020, 66, 543-552.	2.0	7
24	Room temperature dual ferroic behavior induced by (Bi, Ni) co-doping in nanocrystalline Nd0.7Bi0.3Fe1â^'xNixO3 (0â€‰â‰¤â€‰xâ€‰â‰¤â€‰0.3). Journal of Materials Science: Materials in Electronics, 2020, 31, 11010-11020.	1.1	13
25	Investigation of alteration in physical properties of dysprosium orthochromite instigated through cobalt doping. Journal of Alloys and Compounds, 2020, 843, 155637.	2.8	17
26	Structural, optical and enhanced multiferroic properties of La/Cr co-substituted BiFeO3 nanostructures. Journal of Materials Science: Materials in Electronics, 2020, 31, 11177-11194.	1.1	13
27	Investigation of Structural, Optical and Electrical Transport Properties of Yttrium Doped La0.7Ca0.3MnO3 Perovskites. Electronic Materials Letters, 2020, 16, 321-331.	1.0	11
28	Enhanced Photocatalytic Activity by Tuning of Structural and Optoelectrical Properties of Cr(III) Incorporated TiO2 Nanoparticles. Journal of Electronic Materials, 2019, 48, 7203-7215.	1.0	16
29	Structure of nanocrystalline Nd0.5R0.5FeO3 (R=La, Pr, and Sm) intercorrelated with optical, magnetic and thermal properties. Journal of Alloys and Compounds, 2019, 806, 1250-1259.	2.8	22
30	Structural, morphological, thermal and optical investigations on Mn doped GdCrO3. Journal of Alloys and Compounds, 2019, 804, 401-414.	2.8	30
31	Epitaxial growth of cobalt doped TiO2 thin films on LaAlO3(100) substrate by molecular beam epitaxy and their opto-magnetic based applications. Applied Surface Science, 2019, 493, 691-702.	3.1	21
32	Temperature dependent dielectric properties and ac conductivity of GdFe1â^'xMnxO3 (0â€‰â‰¤â€‰xâ€‰â‰¤â€‰0.3) perovskites. Journal of Materials Science: Materials in Electronics, 2019, 30, 20119-20131.	1.1	10
33	Temperature dependent dielectric response and conduction mechanism of nickel doped bismuth ferrite nanoparticles. AIP Conference Proceedings, 2019, , .	0.3	2
34	Synthesis of nanosized Cu2O decorated single-walled carbon nanotubes and their superior catalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 581, 123933.	2.3	14
35	Investigation on the structure and physical properties of Fe3O4/RGO nanocomposites and their photocatalytic application. Materials Science in Semiconductor Processing, 2019, 99, 44-53.	1.9	57
36	Enhanced visible light-driven photocatalytic performance of Zr doped CeO2 nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 8291-8300.	1.1	30

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37	Effect of codoping of Rare Earth ions on Microstructure and Band Gap of Ti0.98A0.01Gd0.01O2 (A:) Tj ETQq1 1 0.784314 rgBT /Over Materials Science and Engineering, 2019, 577, 012087.	0.3	0
38	Alkaline earth cation substitution effects in LaFeO3 orthoferrite nanocrystals studied by positron annihilation. AIP Conference Proceedings, 2019, , .	0.3	1
39	Consequences of (Cr/Co) co-doping on the microstructure, optical and magnetic properties of microwave assisted sol-gel derived TiO2 nanoparticles. Journal of Luminescence, 2019, 205, 406-416.	1.5	18
40	Investigation of structure and physical properties of cobalt doped nano-crystalline neodymium orthoferrite. Journal of Alloys and Compounds, 2019, 778, 439-451.	2.8	58
41	Sol-gel derived cobalt doped LaCrO3: Structure and physical properties. Journal of Alloys and Compounds, 2019, 784, 541-555.	2.8	49
42	Influence of Mn doping on microstructure, optical, dielectric and magnetic properties of BiFeO3 nanoceramics synthesized via solâ€“gel method. Ceramics International, 2019, 45, 7437-7445.	2.3	59
43	Influence of Zn incorporation on the microstructural and magnetic properties of La_{0.67}Sr_{0.33}Mn_{1â^'x}Zn_xO₃ nanoparticles synthesised by the solâ€“gel method. Philosophical Magazine Letters, 2018, 98, 1-8.	0.5	0
44	Plasma enhanced chemical vapour deposition growth and physical properties of single-walled carbon nanotubes. Materials Letters, 2018, 219, 269-272.	1.3	15
45	Microstructural and optical properties of Mn doped NiO nanostructures synthesized via sol-gel method. AIP Conference Proceedings, 2018, , .	0.3	1
46	Effect of pramipexole alginate nanodispersion (PAND) on the transgenic Drosophila expressing human alpha synuclein in the brain. Journal of Applied Biomedicine, 2018, 16, 111-119.	0.6	8
47	Exploring the Room-Temperature Ferromagnetism and Temperature-Dependent Dielectric Properties of Sr/Ni-Doped LaFeO3 Nanoparticles Synthesized by Reverse Micelle Method. Journal of Electronic Materials, 2018, 47, 1916-1923.	1.0	3
48	Influence of Mn substitution on morphological, thermal and optical properties of nanocrystalline GdFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml83" display="inline" overflow="scroll" altimg="si3.gif"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math> orthoferrite. Nano Structures Nano Objects, 2018, 15, 17-27.	1.9	66
49	Dielectric response and room temperature ferromagnetism in Cr doped anatase TiO2 nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 447, 155-166.	1.0	31
50	A comparative study of Sr-doped LaMnO₃ synthesised via solid-state reaction and solâ€“gel methods. Philosophical Magazine Letters, 2018, 98, 365-374.	0.5	3
51	Tailoring dielectric properties and multiferroic behavior of nanocrystalline BiFeO3 via Ni doping. Journal of Applied Physics, 2018, 124, .	1.1	47
52	Significant enhancement in photocatalytic performance of Ni doped BiFeO₃ nanoparticles. Materials Research Express, 2018, 5, 065506.	0.8	36
53	Investigation of microstructural and optical properties of La0.8Ca0.2FeO3 nanostructure synthesized via gel combustion method. AIP Conference Proceedings, 2018, , .	0.3	0
54	Effect of cabergoline alginate nanocomposite on the transgenicDrosophila melanogastermodel of Parkinsonâ€™s disease. Toxicology Mechanisms and Methods, 2018, 28, 699-708.	1.3	10

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55	Enhancement in alcohol vapor sensitivity of Cr doped ZnO gas sensor. Materials Research Bulletin, 2017, 93, 391-400.	2.7	60
56	Microstructural properties and enhanced photocatalytic performance of Zn doped CeO2 nanocrystals. Scientific Reports, 2017, 7, 12560.	1.6	126
57	Biomimetically engineered Amphotericin B nano-aggregates circumvent toxicity constraints and treat systemic fungal infection in experimental animals. Scientific Reports, 2017, 7, 11873.	1.6	38
58	Influence of Fe ions on structural, optical and thermal properties of SnO2 nanoparticles. AIP Conference Proceedings, 2016, , .	0.3	2
59	Microstructural, optical and electrical properties of LaFe0.5Cr0.5O3 perovskite nanostructures. AIP Conference Proceedings, 2016, , .	0.3	2
60	Thickness-Dependent Structural and Optoelectronic Properties of In2O3 Films Prepared by Spray Pyrolysis Technique. Journal of Electronic Materials, 2016, 45, 4453-4459.	1.0	13
61	Mycofabricated biosilver nanoparticles interrupt Pseudomonas aeruginosa quorum sensing systems. Scientific Reports, 2015, 5, 13719.	1.6	149
62	Microstructural, optical and dielectric properties of La0.8Ba0.2FeO3 nanostructures synthesized by sol-gel combustion method. AIP Conference Proceedings, 2015, , .	0.3	2
63	Kinetic Study on Mutagenic Chemical Degradation through Three Pot Synthesiszed Graphene@ZnO Nanocomposite. PLoS ONE, 2015, 10, e0135055.	1.1	39
64	Effect of bromocriptine alginate nanocomposite (BANC) on the transgenic Drosophila model of Parkinson's disease. DMM Disease Models and Mechanisms, 2015, 9, 63-8.	1.2	21
65	Effect of pH variation on structural and optical properties of Zn0.95Co0.05O nanoparticles. Journal of Luminescence, 2015, 160, 311-316.	1.5	11
66	Toxic potential of copper-doped ZnO nanoparticles inDrosophila melanogaster(Oregon R). Toxicology Mechanisms and Methods, 2015, 25, 425-432.	1.3	18
67	Thermal analysis and temperature dependent dielectric responses of Co doped anatase TiO2 nanoparticles. AIP Conference Proceedings, 2015, , .	0.3	6
68	Influence of Cr incorporation on structural, dielectric and optical properties of ZnO nanoparticles. Journal of Industrial and Engineering Chemistry, 2015, 21, 283-291.	2.9	94
69	Magnetically recyclable Ni0.5Zn0.5Fe2O4/Zn0.95Ni0.05O nano-photocatalyst: Structural, optical, magnetic and photocatalytic properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 1348-1356.	2.0	39
70	Biosynthesis of Stable Antioxidant ZnO Nanoparticles by Pseudomonas aeruginosa Rhamnolipids. PLoS ONE, 2014, 9, e106937.	1.1	135
71	Toxic Potential of Synthesized Graphene Zinc Oxide Nanocomposite in the Third Instar Larvae of TransgenicDrosophila melanogaster (hsp70-lacZ)Bg9. BioMed Research International, 2014, 2014, 1-10.	0.9	25
72	Variation in band gap of lanthanum chromate by transition metals doping LaCr0.9A0.1O3 (A:Fe/Co/Ni). , 2014, , .		6

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73	Effect of size reduction on structural and optical properties of ZnO matrix due to successive doping of Fe ions. Journal of Luminescence, 2014, 145, 160-166.	1.5	117
74	Structural phase analysis, band gap tuning and fluorescence properties of Co doped TiO2 nanoparticles. Optical Materials, 2014, 38, 278-285.	1.7	83
75	Fe dopants enhancing ethanol sensitivity of ZnO thin film deposited by RF magnetron sputtering. Journal of Materials Science, 2014, 49, 6248-6256.	1.7	17
76	Formation of self-assembled spherical-flower like nanostructures of cobalt doped anatase TiO 2 and its optical band-gap. Materials Letters, 2014, 133, 28-31.	1.3	10
77	Ferromagnetism and adiabatic to non-adiabatic switching process in La0.33Sr0.67Mn1â^'xFexO3 (0â‰¤xâ‰¤0.02) manganite. Journal of Magnetism and Magnetic Materials, 2014, 368, 273-280.	1.0	5
78	Temperature-dependent dielectric and magnetic properties of Mn doped zinc oxide nanoparticles. Materials Science in Semiconductor Processing, 2014, 26, 516-526.	1.9	48
79	Flower-shaped ZnO nanoparticles synthesized by a novel approach at near-room temperatures with antibacterial and antifungal properties. International Journal of Nanomedicine, 2014, 9, 853.	3.3	94
80	Structural and optical properties of gel-combustion synthesized Zr doped ZnO nanoparticles. Optical Materials, 2013, 35, 1189-1193.	1.7	99
81	Magnetic, transport and magnetoresistance behavior of Ni doped La0.67Sr0.33Mn1â^'Ni O3 (0.00â‰¤xâ‰¤0.09) system. Journal of Solid State Chemistry, 2013, 204, 205-212.	1.4	20
82	Effect of Zn doping on structural, magnetic and dielectric properties of LaFeO3 synthesized through solâ€“gel auto-combustion process. Materials Research Bulletin, 2013, 48, 4506-4512.	2.7	107
83	Crystallite structural, electrical and luminescent characteristics of thin films of In2O3 nanocubes synthesized by spray pyrolysis. Electronic Materials Letters, 2013, 9, 53-57.	1.0	27
84	Structural, optical and magnetic properties of perovskite (La1â^'x Sr x)(Fe1â^'x Ni x)O3, (x = 0.0, 0.1 &) Tj ETQq0 0 0 rgBT /Overloc	1.0	51
85	Structural and dielectric properties of La0.8Te0.2MnO3. Solid State Communications, 2013, 157, 29-33.	0.9	14
86	Synthesis and characterization of structural, optical, thermal and dielectric properties of polyaniline/CoFe2O4 nanocomposites with special reference to photocatalytic activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 109, 313-321.	2.0	97
87	Adiabatic to non adiabatic change in conduction mechanism of Zn doped La0.67Sr0.33MnO3 perovskite. Journal of Alloys and Compounds, 2013, 563, 12-17.	2.8	11
88	Structural, transport, magnetic, and dielectric properties of La1â^'x Te x MnO3 (xÂ=Â0.10 and 0.15). Journal of Materials Science, 2013, 48, 3272-3282.	1.7	12
89	Microstructural and electrical properties of single phase multifeorric BiFeO[sub 3] nanoparticles. , 2013, , .		0
90	Effects of Mn substitution on structural and optical properties of ZnO nanoparticles. , 2013, , .		2

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91	Structural and dielectric properties of LaFe[sub 1â^'x]Zn[sub x]O[sub 3](0â‰¤xâ‰¤0.3). , 2013, , .		1
92	Dielectric response of polyethersulphone (PES) polymer irradiated with 145 MeV Ne6+ ions. , 2013, , .		0
93	Evaluation of the Toxic Potential of Graphene Copper Nanocomposite (GCNC) in the Third Instar Larvae of Transgenic Drosophila melanogaster (hsp70-lacZ)Bg9. PLoS ONE, 2013, 8, e80944.	1.1	45
94	Synthesis and structural evolution of ZnO/TiO2 nanocomposites. , 2012, , .		0
95	Influence of Cr Doping on the Microstructural, Optical and Photocatalytic Properties of ZnO Synthesized by Sol-Gel Method. Current Nanoscience, 2012, 8, 581-586.	0.7	15
96	Non-isothermal kinetic analysis on the crystallization process in Seâ€“S glassy system. Journal of Thermal Analysis and Calorimetry, 2012, 110, 823-829.	2.0	4
97	Study of structural, electrical and magnetic properties of Zn doped La0.67Sr0.33MnO3. Journal of Alloys and Compounds, 2012, 527, 48-52.	2.8	13
98	Structural and frequency dependent dielectric properties of Fe3+ doped ZnO nanoparticles. Materials Research Bulletin, 2012, 47, 3952-3958.	2.7	129
99	Temperature dependence anomalous dielectric relaxation in Co doped ZnO nanoparticles. Materials Research Bulletin, 2012, 47, 4161-4168.	2.7	64
100	SYNTHESIS, STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF IN-SITU SYNTHESIZED POLYANILINE/SILVER NANOCOMPOSITES. Functional Materials Letters, 2012, 05, 1250026.	0.7	36
101	Synthesis and evolution of magnetic properties of Ni doped La2/3Sr1/3Mn1â^'xNixO3 nanoparticles. Journal of Applied Physics, 2012, 111, .	1.1	12
102	Structural and optical properties of In2O3 nanostructured thin film. Materials Letters, 2012, 79, 119-121.	1.3	57
103	Investigation on structural, optical and dielectric properties of Co doped ZnO nanoparticles synthesized by gel-combustion route. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 428-435.	1.7	192
104	Influence of Mn Doping on Structural, Optical, Dielectric and Electrical Properties of ZnO Nanostructures. Journal of Nanoengineering and Nanomanufacturing, 2012, 2, 385-392.	0.3	1
105	Low Temperature Synthesis And Magneto Resistance Study Of Nano La1-xSrxMnO3 (x = 0.3, 0.33, And 0.4) Perovskites. Advanced Materials Letters, 2012, 3, 220-225.	0.3	22
106	Small polaron hopping conduction mechanism in Fe doped LaMnO3. Journal of Chemical Physics, 2011, 135, 054501.	1.2	113