

Wasi Khan

List of Publications by Year in descending order

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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	Investigation on structural, optical and dielectric properties of Co doped ZnO nanoparticles synthesized by gel-combustion route. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 428-435.	1.7	192
2	Mycofabricated biosilver nanoparticles interrupt <i>Pseudomonas aeruginosa</i> quorum sensing systems. <i>Scientific Reports</i> , 2015, 5, 13719.	1.6	149
3	Biosynthesis of Stable Antioxidant ZnO Nanoparticles by <i>Pseudomonas aeruginosa</i> Rhamnolipids. <i>PLoS ONE</i> , 2014, 9, e106937.	1.1	135
4	Structural and frequency dependent dielectric properties of Fe ³⁺ doped ZnO nanoparticles. <i>Materials Research Bulletin</i> , 2012, 47, 3952-3958.	2.7	129
5	Microstructural properties and enhanced photocatalytic performance of Zn doped CeO ₂ nanocrystals. <i>Scientific Reports</i> , 2017, 7, 12560.	1.6	126
6	Effect of size reduction on structural and optical properties of ZnO matrix due to successive doping of Fe ions. <i>Journal of Luminescence</i> , 2014, 145, 160-166.	1.5	117
7	Small polaron hopping conduction mechanism in Fe doped LaMnO ₃ . <i>Journal of Chemical Physics</i> , 2011, 135, 054501.	1.2	113
8	Effect of Zn doping on structural, magnetic and dielectric properties of LaFeO ₃ synthesized through sol-gel auto-combustion process. <i>Materials Research Bulletin</i> , 2013, 48, 4506-4512.	2.7	107
9	Structural and optical properties of gel-combustion synthesized Zr doped ZnO nanoparticles. <i>Optical Materials</i> , 2013, 35, 1189-1193.	1.7	99
10	Synthesis and characterization of structural, optical, thermal and dielectric properties of polyaniline/CoFe ₂ O ₄ nanocomposites with special reference to photocatalytic activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 109, 313-321.	2.0	97
11	Influence of Cr incorporation on structural, dielectric and optical properties of ZnO nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 283-291.	2.9	94
12	Flower-shaped ZnO nanoparticles synthesized by a novel approach at near-room temperatures with antibacterial and antifungal properties. <i>International Journal of Nanomedicine</i> , 2014, 9, 853.	3.3	94
13	Structural phase analysis, band gap tuning and fluorescence properties of Co doped TiO ₂ nanoparticles. <i>Optical Materials</i> , 2014, 38, 278-285.	1.7	83
14	Influence of Mn substitution on morphological, thermal and optical properties of nanocrystalline GdFeO ₃ .  overflow="scroll" altimg="si3.gif" > 3 orthoferrite. <i>Nano Structures Nano Objects</i> , 2018, 15, 17-27.	1.9	66
15	Temperature dependence anomalous dielectric relaxation in Co doped ZnO nanoparticles. <i>Materials Research Bulletin</i> , 2012, 47, 4161-4168.	2.7	64
16	Enhancement in alcohol vapor sensitivity of Cr doped ZnO gas sensor. <i>Materials Research Bulletin</i> , 2017, 93, 391-400.	2.7	60
17	Influence of Mn doping on microstructure, optical, dielectric and magnetic properties of BiFeO ₃ nanoceramics synthesized via sol-gel method. <i>Ceramics International</i> , 2019, 45, 7437-7445.	2.3	59
18	Investigation of structure and physical properties of cobalt doped nano-crystalline neodymium orthoferrite. <i>Journal of Alloys and Compounds</i> , 2019, 778, 439-451.	2.8	58

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19	Structural and optical properties of In ₂ O ₃ nanostructured thin film. <i>Materials Letters</i> , 2012, 79, 119-121.	1.3	57
20	Investigation on the structure and physical properties of Fe ₃ O ₄ /RGO nanocomposites and their photocatalytic application. <i>Materials Science in Semiconductor Processing</i> , 2019, 99, 44-53.	1.9	57
21	Silver-Decorated Cobalt Ferrite Nanoparticles Anchored onto the Graphene Sheets as Electrode Materials for Electrochemical and Photocatalytic Applications. <i>ACS Omega</i> , 2020, 5, 31076-31084.	1.6	52
22	Structural, optical and magnetic properties of perovskite (La ^{1-x} Sr ^x)(Fe ^{1-x} Ni ^x)O ₃ , (x = 0.0, 0.1 & amp;) Tj ETQq 0 0 0 rgBT /Overlo	1.0	51
23	Sol-gel derived cobalt doped LaCrO ₃ : Structure and physical properties. <i>Journal of Alloys and Compounds</i> , 2019, 784, 541-555.	2.8	49
24	Temperature-dependent dielectric and magnetic properties of Mn doped zinc oxide nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 516-526.	1.9	48
25	Correlation between structure, dielectric and multiferroic properties of lead free Ni modified BaTiO ₃ solid solution. <i>Ceramics International</i> , 2020, 46, 27336-27351.	2.3	48
26	Tailoring dielectric properties and multiferroic behavior of nanocrystalline BiFeO ₃ via Ni doping. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	47
27	Evaluation of the Toxic Potential of Graphene Copper Nanocomposite (GCNC) in the Third Instar Larvae of Transgenic <i>Drosophila melanogaster</i> (hsp70-lacZ)Bg9. <i>PLoS ONE</i> , 2013, 8, e80944.	1.1	45
28	Kinetic Study on Mutagenic Chemical Degradation through Three Pot Synthesized Graphene@ZnO Nanocomposite. <i>PLoS ONE</i> , 2015, 10, e0135055.	1.1	39
29	Magnetically recyclable Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ /Zn _{0.95} Ni _{0.05} O nano-photocatalyst: Structural, optical, magnetic and photocatalytic properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 1348-1356.	2.0	39
30	Biomimetically engineered Amphotericin B nano-aggregates circumvent toxicity constraints and treat systemic fungal infection in experimental animals. <i>Scientific Reports</i> , 2017, 7, 11873.	1.6	38
31	SYNTHESIS, STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF <i>IN-SITU</i> SYNTHESIZED POLYANILINE/SILVER NANOCOMPOSITES. <i>Functional Materials Letters</i> , 2012, 05, 1250026.	0.7	36
32	Significant enhancement in photocatalytic performance of Ni doped BiFeO ₃ nanoparticles. <i>Materials Research Express</i> , 2018, 5, 065506.	0.8	36
33	Dielectric response and room temperature ferromagnetism in Cr doped anatase TiO ₂ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 447, 155-166.	1.0	31
34	Structural, morphological, thermal and optical investigations on Mn doped GdCrO ₃ . <i>Journal of Alloys and Compounds</i> , 2019, 804, 401-414.	2.8	30
35	Enhanced visible light-driven photocatalytic performance of Zr doped CeO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8291-8300.	1.1	30
36	Crystallite structural, electrical and luminescent characteristics of thin films of In ₂ O ₃ nanocubes synthesized by spray pyrolysis. <i>Electronic Materials Letters</i> , 2013, 9, 53-57.	1.0	27

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37	Toxic Potential of Synthesized Graphene Zinc Oxide Nanocomposite in the Third Instar Larvae of Transgenic <i>Drosophila melanogaster</i> (hsp70-lacZ)Bg9. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	25
38	Influence of Mn doping on dielectric properties, conduction mechanism and photocatalytic nature of gadolinium-based orthochromites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9335-9351.	1.1	23
39	Structure of nanocrystalline Nd _{0.5} R _{0.5} FeO ₃ (R=La, Pr, and Sm) intercorrelated with optical, magnetic and thermal properties. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1250-1259.	2.8	22
40	Role of Cr doping in tuning the optical and dielectric properties of TiO ₂ nanostructures. <i>Materials Chemistry and Physics</i> , 2020, 256, 123641.	2.0	22
41	Low Temperature Synthesis And Magneto Resistance Study Of Nano La _{1-x} Sr _x MnO ₃ (x = 0.3, 0.33, And 0.4) Perovskites. <i>Advanced Materials Letters</i> , 2012, 3, 220-225.	0.3	22
42	Effect of bromocriptine alginate nanocomposite (BANC) on the transgenic <i>Drosophila</i> model of Parkinson's disease. <i>DMM Disease Models and Mechanisms</i> , 2015, 9, 63-8.	1.2	21
43	Epitaxial growth of cobalt doped TiO ₂ thin films on LaAlO ₃ (100) substrate by molecular beam epitaxy and their opto-magnetic based applications. <i>Applied Surface Science</i> , 2019, 493, 691-702.	3.1	21
44	Magnetic, transport and magnetoresistance behavior of Ni doped La _{0.67} Sr _{0.33} Mn _{1-x} Ni _x O ₃ (0.00 ≤ x ≤ 0.09) system. <i>Journal of Solid State Chemistry</i> , 2013, 204, 205-212.	1.4	20
45	Toxic potential of copper-doped ZnO nanoparticles in <i>Drosophila melanogaster</i> (Oregon R). <i>Toxicology Mechanisms and Methods</i> , 2015, 25, 425-432.	1.3	18
46	Consequences of (Cr/Co) co-doping on the microstructure, optical and magnetic properties of microwave assisted sol-gel derived TiO ₂ nanoparticles. <i>Journal of Luminescence</i> , 2019, 205, 406-416.	1.5	18
47	Fe dopants enhancing ethanol sensitivity of ZnO thin film deposited by RF magnetron sputtering. <i>Journal of Materials Science</i> , 2014, 49, 6248-6256.	1.7	17
48	Investigation of alteration in physical properties of dysprosium orthochromite instigated through cobalt doping. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155637.	2.8	17
49	Enhanced Photocatalytic Activity by Tuning of Structural and Optoelectrical Properties of Cr(III) Incorporated TiO ₂ Nanoparticles. <i>Journal of Electronic Materials</i> , 2019, 48, 7203-7215.	1.0	16
50	Structural modifications and enhanced ferroelectric nature of NdFeO ₃ –PbTiO ₃ composites. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	16
51	Influence of Cr Doping on the Microstructural, Optical and Photocatalytic Properties of ZnO Synthesized by Sol-Gel Method. <i>Current Nanoscience</i> , 2012, 8, 581-586.	0.7	15
52	Plasma enhanced chemical vapour deposition growth and physical properties of single-walled carbon nanotubes. <i>Materials Letters</i> , 2018, 219, 269-272.	1.3	15
53	Structural and dielectric properties of La _{0.8} Te _{0.2} MnO ₃ . <i>Solid State Communications</i> , 2013, 157, 29-33.	0.9	14
54	Synthesis of nanosized Cu ₂ O decorated single-walled carbon nanotubes and their superior catalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123933.	2.3	14

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55	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
56	Study of structural, electrical and magnetic properties of Zn doped La _{0.67} Sr _{0.33} MnO ₃ . Journal of Alloys and Compounds, 2012, 527, 48-52.	2.8	13
57	Thickness-Dependent Structural and Optoelectronic Properties of In ₂ O ₃ Films Prepared by Spray Pyrolysis Technique. Journal of Electronic Materials, 2016, 45, 4453-4459.	1.0	13
58	Investigation of structural, optical, electrical, and magnetic properties of Fe-doped La _{0.7} Sr _{0.3} MnO ₃ manganites. International Journal of Applied Ceramic Technology, 2020, 17, 2430-2438.	1.1	13
59	Structural, optical and enhanced multiferroic properties of La/Cr co-substituted BiFeO ₃ nanostructures. Journal of Materials Science: Materials in Electronics, 2020, 31, 11177-11194.	1.1	13
60	Synthesis and evolution of magnetic properties of Ni doped La _{2/3} Sr _{1/3} Mn _{1-x} Ni _x O ₃ nanoparticles. Journal of Applied Physics, 2012, 111, .	1.1	12
61	Structural, transport, magnetic, and dielectric properties of La _{1-x} Te _x MnO ₃ (x=0.10 and 0.15). Journal of Materials Science, 2013, 48, 3272-3282.	1.7	12
62	Adiabatic to non adiabatic change in conduction mechanism of Zn doped La _{0.67} Sr _{0.33} MnO ₃ perovskite. Journal of Alloys and Compounds, 2013, 563, 12-17.	2.8	11
63	Effect of pH variation on structural and optical properties of Zn _{0.95} Co _{0.05} O nanoparticles. Journal of Luminescence, 2015, 160, 311-316.	1.5	11
64	Investigation of Structural, Optical and Electrical Transport Properties of Yttrium Doped La _{0.7} Ca _{0.3} MnO ₃ Perovskites. Electronic Materials Letters, 2020, 16, 321-331.	1.0	11
65	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
66	Effect of cabergoline alginate nanocomposite on the transgenic <i>Drosophila melanogaster</i> model of Parkinson's disease. Toxicology Mechanisms and Methods, 2018, 28, 699-708.	1.3	10
67	Temperature dependent dielectric properties and ac conductivity of GdFe _{1-x} Mn _x O ₃ (0 ≤ x ≤ 0.3) perovskites. Journal of Materials Science: Materials in Electronics, 2019, 30, 20119-20131.	1.1	10
68	Synthesis and role of structural disorder on the optical, magnetic and dielectric properties of Zn doped NiFe ₂ O ₄ nanoferrites. Journal of Molecular Structure, 2022, 1253, 132205.	1.8	10
69	Study of structural correlations with temperature dependent dielectric response and ferroelectric behavior for (Sr, Mn) co-doped BaTiO ₃ . Journal of Materials Science: Materials in Electronics, 2022, 33, 6329-6353.	1.1	10
70	Tuning of magnetic properties and multiferroic nature: case study of cobalt-doped NdFeO ₃ . Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	9
71	Effect of pramipexole alginate nanodispersion (PAND) on the transgenic <i>Drosophila</i> expressing human alpha synuclein in the brain. Journal of Applied Biomedicine, 2018, 16, 111-119.	0.6	8
72	Thermally stimulated small polaron promoted conduction mechanism in Fe-doped La _{0.7} Sm _{0.3} CrO ₃ . Journal of Physics and Chemistry of Solids, 2020, 138, 109281.	1.9	8

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73	Ropinirole silver nanocomposite attenuates neurodegeneration in the transgenic <i>Drosophila melanogaster</i> model of Parkinson's disease. <i>Neuropharmacology</i> , 2020, 177, 108216.	2.0	7
74	Unravelling the effect of Ni doping on the structural, optical and dielectric properties of nanocrystalline SnO ₂ . <i>Chinese Journal of Physics</i> , 2020, 66, 543-552.	2.0	7
75	Variation in band gap of lanthanum chromate by transition metals doping LaCr _{0.9} A _{0.1} O ₃ (A:Fe/Co/Ni). , 2014, , .		6
76	Thermal analysis and temperature dependent dielectric responses of Co doped anatase TiO ₂ nanoparticles. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	6
77	Structural and electrochemical properties of GO/Mn ₃ O ₄ nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3894-3902.	1.1	6
78	The effect of Ni doping on the structural, optical and dielectric properties of nanocrystalline YbCrO ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2021, 159, 110280.	1.9	6
79	Ferromagnetism and adiabatic to non-adiabatic switching process in La _{0.33} Sr _{0.67} Mn _{1-x} Fe _x O ₃ (0 ≤ x ≤ 0.02) manganite. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 368, 273-280.	1.0	5
80	Microstructural and dielectric relaxation study of Gd ³⁺ ion substituted MgFe ₂ O ₄ . <i>AIP Conference Proceedings</i> , 2020, , .	0.3	5
81	Raman scattering, electronic transport and dielectric features of Co-doped DyCrO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15108-15133.	1.1	5
82	Non-isothermal kinetic analysis on the crystallization process in Seâ€“S glassy system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 823-829.	2.0	4
83	Exploring the Room-Temperature Ferromagnetism and Temperature-Dependent Dielectric Properties of Sr/Ni-Doped LaFeO ₃ Nanoparticles Synthesized by Reverse Micelle Method. <i>Journal of Electronic Materials</i> , 2018, 47, 1916-1923.	1.0	3
84	A comparative study of Sr-doped LaMnO ₃ synthesised via solid-state reaction and solâ€“gel methods. <i>Philosophical Magazine Letters</i> , 2018, 98, 365-374.	0.5	3
85	Room temperature dual ferroic behavior induced by (Bi, Ni) co-doping in nanocrystalline Nd _{0.7} Bi _{0.3} Fe _{1-x} Ni _x O ₃ (0 ≤ x ≤ 0.3). <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11010-11020.		3
86	Polaron hopping conduction mechanism and magnetic properties of Pbâ€“doped LaMnO ₃ . <i>Journal of the American Ceramic Society</i> , 2022, 105, 348-361.	1.9	3
87	Influence of Ni doping on physical properties of La _{0.7} Sr _{0.3} FeO ₃ synthesized by reverse micelle technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3753-3765.	1.1	3
88	Effects of Mn substitution on structural and optical properties of ZnO nanoparticles. , 2013, , .		2
89	Microstructural, optical and dielectric properties of La _{0.8} Ba _{0.2} FeO ₃ nanostructures synthesized by sol-gel combustion method. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
90	Influence of Fe ions on structural, optical and thermal properties of SnO ₂ nanoparticles. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2

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91	Microstructural, optical and electrical properties of LaFe _{0.5} Cr _{0.5} O ₃ perovskite nanostructures. AIP Conference Proceedings, 2016, , .	0.3	2
92	Temperature dependent dielectric response and conduction mechanism of nickel doped bismuth ferrite nanoparticles. AIP Conference Proceedings, 2019, , .	0.3	2
93	A comparative study of ZnO nanostructures synthesized via sol-gel and hydrothermal processes. AIP Conference Proceedings, 2020, , .	0.3	2
94	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
95	Structural and dielectric properties of LaFe _{1-x} Zn _x O ₃ (0 ≤ x ≤ 0.3). , 2013, , .		1
96	Microstructural and optical properties of Mn doped NiO nanostructures synthesized via sol-gel method. AIP Conference Proceedings, 2018, , .	0.3	1
97	Alkaline earth cation substitution effects in LaFeO ₃ orthoferrite nanocrystals studied by positron annihilation. AIP Conference Proceedings, 2019, , .	0.3	1
98	Influence of Ni doping on the optical properties of BiFeO ₃ multiferroic. AIP Conference Proceedings, 2020, , .	0.3	1
99	Modified multiferroic behavior: A case study of NdFeO ₃ -SrTiO ₃ composite. AIP Conference Proceedings, 2020, , .	0.3	1
100	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
101	Synthesis and structural evolution of ZnO/TiO ₂ nanocomposites. , 2012, , .		0
102	Microstructural and electrical properties of single phase multiferroic BiFeO ₃ nanoparticles. , 2013, , .		0
103	Dielectric response of polyethersulphone (PES) polymer irradiated with 145 MeV Ne ⁶⁺ ions. , 2013, , .		0
104	Influence of Zn incorporation on the microstructural and magnetic properties of La _{0.67} Sr _{0.33} Mn _{1-x} Zn _x O ₃ nanoparticles synthesised by the sol-gel method. Philosophical Magazine Letters, 2018, 98, 1-8.	0.5	0
105	Investigation of microstructural and optical properties of La _{0.8} Ca _{0.2} FeO ₃ nanostructure synthesized via gel combustion method. AIP Conference Proceedings, 2018, , .	0.3	0
106	Effect of codoping of Rare Earth ions on Microstructure and Band Gap of Ti _{0.98} A _{0.01} Gd _{0.01} O ₂ (A: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Materials Science and Engineering, 2019, 577, 012087.	0.3	0