

Maaz Khan

List of Publications by Year in descending order

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90
papers

4,265
citations

186265
28
h-index

114465
63
g-index

94
all docs

94
docs citations

94
times ranked

4622
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and magnetic properties of cobalt ferrite (CoFe ₂ O ₄) nanoparticles prepared by wet chemical route. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 308, 289-295.	2.3	786
2	Photocatalytic degradation of dyes using semiconductor photocatalysts to clean industrial water pollution. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 111-128.	5.8	515
3	Synthesis and magnetic characterization of nickel ferrite nanoparticles prepared by co-precipitation route. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1838-1842.	2.3	405
4	Synthesis of nanomaterials using various top-down and bottom-up approaches, influencing factors, advantages, and disadvantages: A review. <i>Advances in Colloid and Interface Science</i> , 2022, 300, 102597.	14.7	301
5	Surface Plasmonic-Assisted Photocatalysis and Optoelectronic Devices with Noble Metal Nanocrystals: Design, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1906744.	14.9	186
6	Temperature dependent coercivity and magnetization of nickel ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2199-2202.	2.3	169
7	Structural analysis of nickel doped cobalt ferrite nanoparticles prepared by coprecipitation route. <i>Physica B: Condensed Matter</i> , 2009, 404, 3947-3951.	2.7	126
8	Magnetic characterization of Co _{1-x} Ni _x Fe ₂ O ₄ (0 ≤ x ≤ 1/2) nanoparticles prepared by co-precipitation route. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 593-599.	2.7	108
9	Exchange bias and vertical shift in CoFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 313, 266-272.	2.3	94
10	Development of non-enzymatic cholesterol bio-sensor based on TiO ₂ nanotubes decorated with Cu ₂ O nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127200.	7.8	70
11	Influence of manganese substitution on structural and magnetic properties of CoFe ₂ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 639, 533-540.	5.5	67
12	Temperature-Dependent Magnetic Response of Antiferromagnetic Doping in Cobalt Ferrite Nanostructures. <i>Nanomaterials</i> , 2016, 6, 73.	4.1	65
13	Magnetic response of core-shell cobalt ferrite nanoparticles at low temperature. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	62
14	Effect of Crystallographic Texture on Magnetic Characteristics of Cobalt Nanowires. <i>Nanoscale Research Letters</i> , 2010, 5, 1111-1117.	5.7	59
15	Noble metal nanoparticle-functionalized ZnO nanoflowers for photocatalytic degradation of RhB dye and electrochemical sensing of hydrogen peroxide. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	59
16	Semiconductor to metallic transition and polaron conduction in nanostructured cobalt ferrite. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 165404.	2.8	54
17	Enhanced photocatalytic and electrochemical properties of Au nanoparticles supported TiO ₂ microspheres. <i>New Journal of Chemistry</i> , 2014, 38, 1424.	2.8	52
18	Voltage-Switchable Biosensor with Gold Nanoparticles on TiO ₂ Nanotubes Decorated with CdS Quantum Dots for the Detection of Cholesterol and H ₂ O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3653-3668.	8.0	52

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19	Structural and magnetic response of Mn substituted Co ₂ Y-type barium hexaferrites. Journal of Alloys and Compounds, 2016, 686, 1017-1024.	5.5	49
20	Reduced conductivity and enhancement of Debye orientational polarization in lanthanum doped cobalt ferrite nanoparticles. Physica B: Condensed Matter, 2011, 406, 4393-4399.	2.7	48
21	Structure optimization of perovskite quantum dot light-emitting diodes. Nanoscale, 2019, 11, 5021-5029.	5.6	48
22	Evolution of low-dimensional material-based field-effect transistors. Nanoscale, 2021, 13, 5162-5186.	5.6	39
23	Electrical conduction mechanism in ZnS nanoparticles. Journal of Alloys and Compounds, 2014, 612, 64-68.	5.5	38
24	Temperature induced delocalization of charge carriers and metallic phase in Co _{0.6} Sn _{0.4} Fe ₂ O ₄ nanoparticles. Journal of Applied Physics, 2012, 112, .	2.5	37
25	Controlled crystallinity and crystallographic orientation of Cu nanowires fabricated in ion-track templates. Nanotechnology, 2010, 21, 365605.	2.6	33
26	Electrical and magnetic properties of nano-sized Eu doped barium hexaferrites. Journal of Alloys and Compounds, 2017, 727, 683-690.	5.5	32
27	Effect of temperature on the magnetic characteristics of Ni _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles. Materials Chemistry and Physics, 2012, 133, 1006-1010.	4.0	31
28	Ag TiO ₂ nanocomposite for environmental and sensing applications. Materials Chemistry and Physics, 2016, 181, 194-203.	4.0	29
29	Diameter dependent failure current density of gold nanowires. Journal Physics D: Applied Physics, 2009, 42, 185403.	2.8	28
30	Overcoming the Electroluminescence Efficiency Limitations in Quantum-Dot Light-Emitting Diodes. Advanced Optical Materials, 2019, 7, 1900695.	7.3	26
31	Characterization of Cobalt Nanowires Fabricated in Anodic Alumina Template Through AC Electrodeposition. IEEE Nanotechnology Magazine, 2010, 9, 223-228.	2.0	23
32	Effect of etching conditions on pore shape in etched ion-track polycarbonate membranes. Radiation Measurements, 2009, 44, 779-782.	1.4	22
33	Single domain limit for Ni _{1-x} Co _x Fe ₂ O ₄ (0 ≤ x ≤ 1) nanoparticles synthesized by coprecipitation route. Materials Chemistry and Physics, 2012, 137, 359-364.	4.0	22
34	Magnetic behavior of arrays of nickel nanowires: Effect of microstructure and aspect ratio. Materials Chemistry and Physics, 2011, 130, 1103-1108.	4.0	21
35	Fabrication and temperature dependent magnetic properties of nickel nanowires embedded in alumina templates. Ceramics International, 2015, 41, 12081-12086.	4.8	21
36	Electrochemical polymerization and characterization of polypyrrole nanowires and nanotubules. Physica B: Condensed Matter, 2010, 405, 2461-2465.	2.7	19

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37	Nickel segment-length dependent magnetic properties of Au@Ni@Au nanowires at low temperature fabricated by electrochemical deposition. <i>Journal of Solid State Chemistry</i> , 2013, 199, 160-163.	2.9	18
38	Enhancement of electrical conductivity and dielectric constant in Sn-doped nanocrystalline CoFe ₂ O ₄ . <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	16
39	Swift-heavy ion irradiation-induced latent tracks in few- and mono-layer MoS ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	16
40	Toxicity of PEG-Coated CoFe ₂ O ₄ Nanoparticles with Treatment Effect of Curcumin. <i>Nanoscale Research Letters</i> , 2018, 13, 52.	5.7	16
41	Graphene electrical properties modulated by swift heavy ion irradiation. <i>Carbon</i> , 2019, 154, 244-253.	10.3	16
42	Surface Modification and Damage of MeV-Energy Heavy Ion Irradiation on Gold Nanowires. <i>Nanomaterials</i> , 2017, 7, 108.	4.1	15
43	Degradation in AlGaN/GaN HEMTs irradiated with swift heavy ions: Role of latent tracks. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 430, 59-63.	1.4	15
44	Fabrication and low temperature magnetic studies of Ni@Co core-shell nanowires. <i>Journal of Alloys and Compounds</i> , 2016, 662, 296-301.	5.5	14
45	A molecular dynamics simulation study of irradiation induced defects in gold nanowire. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 405, 22-30.	1.4	14
46	Synthesis, characterization and electrochemical analysis of TiO ₂ nanostructures for sensing L-Cysteine and hydrogen peroxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 128, 114541.	2.7	14
47	Ab-initio characterization of B ₄ C ₃ monolayer as a toxic gases sensing material. <i>Applied Surface Science</i> , 2021, 544, 148877.	6.1	14
48	Energy level splitting and luminescence enhancement in AlN:Er by an external magnetic field. <i>Optical Materials</i> , 2015, 46, 601-604.	3.6	13
49	Development of Silver Nanowires Based Highly Sensitive Amperometric Glucose Biosensor. <i>Electroanalysis</i> , 2015, 27, 1498-1506.	2.9	13
50	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. <i>Nanomaterials</i> , 2016, 6, 72.	4.1	12
51	Raman investigation of lattice defects and stress induced in InP and GaN films by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 372, 29-37.	1.4	12
52	Superparamagnetic nickel-substituted manganese ferrite (Mn _{0.8} Ni _{0.2} Fe ₂ O ₄) nanoplates as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 701, 147-152.	5.5	12
53	Silver Nanoparticles Embedded Graphene Oxide Nanocomposite with Enhanced Antibacterial and Photocatalytic Degradation Activities. <i>ChemistrySelect</i> , 2019, 4, 8372-8377.	1.5	12
54	Ni and Co synergy in bimetallic nanowires for the electrochemical detection of hydrogen peroxide. <i>Nanotechnology</i> , 2021, 32, 205501.	2.6	12

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55	Temperature- and Angle-Dependent Magnetic Properties of Ni Nanotube Arrays Fabricated by Electrodeposition in Polycarbonate Templates. <i>Nanomaterials</i> , 2016, 6, 231.	4.1	11
56	Fabrication and size dependent magnetic studies of $\text{Ni}_x\text{Mn}_{1-x}\text{Fe}_2\text{O}_4$ ($x=0.2$) cubic nanoplates. <i>Journal of Alloys and Compounds</i> , 2016, 684, 656-662.	5.5	11
57	Fabrication and temperature-dependent magnetic properties of one-dimensional embedded nickel segment in gold nanowires. <i>Journal of Alloys and Compounds</i> , 2012, 541, 483-487.	5.5	10
58	Fabrication and temperature-dependent magnetic properties of one-dimensional multilayer $\text{Au}/\text{Ni}/\text{Au}/\text{Ni}/\text{Au}$ nanowires. <i>Journal of Solid State Chemistry</i> , 2014, 210, 116-120.	2.9	10
59	Fabrication and temperature dependent magnetic properties of $\text{Ni}/\text{Cu}/\text{Co}$ composite nanowires. <i>Physica B: Condensed Matter</i> , 2015, 475, 99-104.	2.7	10
60	A sensitive non-enzymatic glucose sensor based on MgO entangled nanosheets decorated with CdS nanoparticles: Experimental and DFT study. <i>Journal of Molecular Liquids</i> , 2022, 360, 119366.	4.9	10
61	Effect of particle size on the magnetic properties of $\text{Ni}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$ ($x=0.3$) nanoparticles. <i>Chemical Physics Letters</i> , 2012, 549, 67-71.	2.6	9
62	TiO_2 nanotube array-modified electrodes for L-cysteine biosensing: experimental and density-functional theory study. <i>Nanotechnology</i> , 2020, 31, 505501.	2.6	9
63	Magnetic properties of one-dimensional embedded nickel nanostructures in gold nanowires. <i>Current Applied Physics</i> , 2012, 12, 65-68.	2.4	8
64	Magnetic and Dielectric Investigations of Mn-Doped Ba Hexaferrite Nanoparticles by Hydrothermal Approach. <i>Journal of Electronic Materials</i> , 2016, 45, 5853-5859.	2.2	8
65	Low energy proton induced single event upset in 65 nm DDR and QDR commercial SRAMs. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 443-448.	1.4	8
66	Tungsten oxide multifunctional nanostructures: Enhanced environmental and sensing applications. <i>Materials Chemistry and Physics</i> , 2019, 221, 250-257.	4.0	8
67	Electrical transport properties of single crystal vanadium pentoxide nanowires. <i>Materials Chemistry and Physics</i> , 2015, 159, 19-24.	4.0	7
68	Fabrication and temperature dependent magnetic properties of Co-Ni nanotube arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 110, 123-126.	2.7	7
69	Fabrication of Au/Ni/NiO heterostructure nanowires by electrochemical deposition and their temperature dependent magnetic properties. <i>Journal of Solid State Chemistry</i> , 2020, 284, 121186.	2.9	7
70	Preparation of oxidized Zn/In nanostructures for electrochemical non-enzymatic cholesterol sensing. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106101.	4.0	7
71	Anodic SnO_2 Nanoporous Channels Functionalized with CuO Quantum Dots for Selective H_2O_2 Biosensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 9096-9111.	5.0	7
72	Electronic transport in MoSe_2 FETs modified by latent tracks created by swift heavy ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 125102.	2.8	6

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73	Investigation of optical properties of Cu/Ni multilayer nanowires embedded in etched ion-track template. <i>Applied Surface Science</i> , 2016, 388, 155-159.	6.1	5
74	Effect of temperature on the exchange bias in naturally oxidized Ni _x Co _{1-x} (x=0.2) nanowires fabricated by electrochemical deposition technique. <i>Journal of Alloys and Compounds</i> , 2012, 520, 272-276.	5.5	4
75	Luminescence Enhancement in Amorphous AlN:W by Co-Doped Gd ³⁺ . <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1519-1522.	2.5	4
76	A comparison of heavy ion induced single event upset susceptibility in unhardened 6T/SRAM and hardened ADE/SRAM. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 437-442.	1.4	4
77	Morphological evolution of ZnO nanostructures with hydrothermal oxidation time and their electrochemical glucose sensing properties. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 2059-2068.	3.1	4
78	Synergic effect of plasmonic gold nanoparticles and graphene oxide on the performance of glucose sensing. <i>New Journal of Chemistry</i> , 2019, 43, 18925-18934.	2.8	4
79	Effect of aging on the magnetic characteristics of nickel nanowires embedded in polycarbonate. <i>Journal of Applied Physics</i> , 2011, 110, 013908.	2.5	3
80	Correlation between magnetic and electrical properties of Co _{0.6} Sn _{0.4} Fe ₂ O ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	3
81	Effects of substrate on swift heavy ion irradiation induced defect engineering in MoSe ₂ . <i>Materials Chemistry and Physics</i> , 2022, 277, 125624.	4.0	3
82	Controlled Structure of Electrochemically Deposited Pd Nanowires in Ion-Track Templates. <i>Nanoscale Research Letters</i> , 2015, 10, 481.	5.7	2
83	A potential lattice damage scale in swift heavy ion irradiated InP. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 971-979.	2.5	2
84	A new approach to study combination mixture organic solvent ethylene carbonate with lithium-ion for alkali-ion battery: A density functional theory. <i>Journal of Materials Research and Technology</i> , 2021, 11, 1672-1677.	5.8	2
85	In situ tailoring the morphology of In(OH) ₃ nanostructures via surfactants during anodization and their transformation into In ₂ O ₃ nanoparticles. <i>Nanotechnology</i> , 2021, 32, 315602.	2.6	2
86	Magnetic properties of nickel nanowires decorated with cobalt nanoparticles fabricated by two step electrochemical deposition technique. <i>Materials Chemistry and Physics</i> , 2016, 182, 466-471.	4.0	1
87	Thermal aging impact on microstructure, creep and corrosion behavior of lead-free solder alloy (SAC387) use in electronics. <i>Microelectronics Reliability</i> , 2021, 122, 114180.	1.7	1
88	Dynamic evolutions of swift heavy ion induced latent tracks under electron bombardment from TEM. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 429, 9-13.	1.4	1
89	Investigations of nano-defect morphology and vibrational spectra of swift heavy ion irradiated muscovite mica. <i>Surface and Coatings Technology</i> , 2018, 355, 186-190.	4.8	0
90	Structural and mechanical analyses of soldering materials containing Pb, Sn, Ag, Cu, Bi and Zn. <i>Materials Today: Proceedings</i> , 2020, 47, S83-S83.	1.8	0