

Jahangeer Ahmed

List of Publications by Year in descending order

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113
papers

4,542
citations

81743

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118652

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116
all docs

116
docs citations

116
times ranked

4695
citing authors

#	ARTICLE	IF	CITATIONS
1	MAPbI ₃ -based efficient, transparent and air-stable broadband photodetectors. Indian Journal of Physics, 2022, 96, 903-908.	0.9	3
2	The hybrid halide perovskite: Synthesis strategies, fabrications, and modern applications. Ceramics International, 2022, 48, 7325-7343.	2.3	17
3	Investigation of enhanced electro-catalytic HER/OER performances of copper tungsten oxide@reduced graphene oxide nanocomposites in alkaline and acidic media. New Journal of Chemistry, 2022, 46, 1267-1272.	1.4	17
4	H ₂ S sensing material Pt-WO ₃ nanorods with excellent comprehensive performance. Journal of Alloys and Compounds, 2022, 900, 163398.	2.8	17
5	Silver-doped SnO ₂ nanostructures for photocatalytic water splitting and catalytic nitrophenol reduction. New Journal of Chemistry, 2022, 46, 2846-2857.	1.4	40
6	Rare earth doped metal oxide nanoparticles for photocatalysis: a perspective. Nanotechnology, 2022, 33, 142001.	1.3	90
7	External influences of cactus type composite for hydrogen evolution reaction. Journal of Alloys and Compounds, 2022, 903, 163813.	2.8	6
8	Iron-based composite nanomaterials for eco-friendly photocatalytic hydrogen generation. Ceramics International, 2022, 48, 15026-15033.	2.3	9
9	B-doped SnO ₂ nanoparticles: a new insight into the photocatalytic hydrogen generation by water splitting and degradation of dyes. Environmental Science and Pollution Research, 2022, 29, 47448-47461.	2.7	12
10	Investigation of microstructural and magnetic properties of Ca ²⁺ doped strontium hexaferrite nanoparticles. Journal of King Saud University - Science, 2022, 34, 101963.	1.6	26
11	Modified, Solvothermally Derived Cr-doped SnO ₂ Nanostructures for Enhanced Photocatalytic and Electrochemical Water-Splitting Applications. ACS Omega, 2022, 7, 14138-14147.	1.6	24
12	Self-Assembled Interwoven Nanohierarchitectures of NaNbO ₃ and NaNbO ₃ ∩TaO ₃ (0.05 at% x 0.20): Synthesis, Structural Characterization, Photocatalytic Applications, and Dielectric Properties. ACS Omega, 2022, 7, 16952-16967.	1.6	17
13	Reduced Graphene Oxide Supported Zinc Tungstate Nanoparticles as Proficient Electro-Catalysts for Hydrogen Evolution Reactions. Catalysts, 2022, 12, 530.	1.6	3
14	Nanomagnetic strontium ferrite nitrogen doped carbon (SrFe ₂ O ₄ -NC): Synthesis, characterization and excellent supercapacitor performance. Journal of Energy Storage, 2022, 52, 104821.	3.9	9
15	Sol-gel auto-combustion synthesis of double metal-doped barium hexaferrite nanoparticles for permanent magnet applications. Journal of Solid State Chemistry, 2022, 312, 123215.	1.4	19
16	Photocatalytic dye degradation efficiency and reusability of Cu-substituted Zn-Mg spinel nanoferrites for wastewater remediation. Journal of Water Process Engineering, 2022, 48, 102865.	2.6	44
17	Utilization of Phyllanthus emblica fruit-Astone as a Potential Biomaterial for Sustainable Remediation of Lead and Cadmium Ions from Aqueous Solutions. Molecules, 2022, 27, 3355.	1.7	9
18	Optical thermometry based on the luminescence intensity ratio of Dy ³⁺ -doped GdPO ₄ phosphors. Journal of Thermal Analysis and Calorimetry, 2022, 147, 11769-11775.	2.0	6

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19	Significant recycled efficiency of multifunctional nickel molybdenum oxide nanorods in photo-catalysis, electrochemical glucose sensing and asymmetric supercapacitors. <i>Materials Characterization</i> , 2021, 171, 110741.	1.9	27
20	Broad band white-light-emitting Y ₅ Si ₃ O ₁₂ N:Ce ³⁺ /Dy ³⁺ oxonitridosilicate phosphors for solid state lighting applications. <i>Journal of Luminescence</i> , 2021, 229, 117687.	1.5	17
21	Influence of silver doping on the structure, optical and photocatalytic properties of Ag-doped BaTiO ₃ ceramics. <i>Materials Chemistry and Physics</i> , 2021, 259, 124058.	2.0	26
22	Zinc molybdenum oxide sub-micron plates as electro-catalysts for hydrogen evolution reactions in acidic medium. <i>Materials Letters</i> , 2021, 284, 128996.	1.3	15
23	Development of structure and tuning ability of the luminescence of lead-free halide perovskite nanocrystals (NCs). <i>Chemical Engineering Journal</i> , 2021, 420, 127603.	6.6	18
24	BaTiO ₃ @rGO nanocomposite: enhanced photocatalytic activity as well as improved electrode performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12911-12921.	1.1	21
25	Nitrogen-doped carbon quantum dots (N-CQDs)/Co ₃ O ₄ nanocomposite for high performance supercapacitor. <i>Journal of King Saud University - Science</i> , 2021, 33, 101252.	1.6	42
26	Effects of Cu doping on the structural, photoluminescence and impedance spectroscopy of CoS ₂ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3948-3957.	1.1	2
27	Modern aspects of strategies for developing single-phase broadly tunable white light-emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13041-13071.	2.7	32
28	Cu-doping effects on nanostructural, electrical and optical properties of Cu _x Pd _{1-x} S/p-Si heterojunction. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	1
29	1.3 kW Continuous Wave Output Power of Ytterbium-Doped Large-Core Fiber Laser. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 026005.	0.9	3
30	Frequency and temperature dependence of dielectric permittivity/electric modulus, and efficient photocatalytic action of Fe-doped CeO ₂ NPs. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158127.	2.8	15
31	Bifunctional electro-catalytic performances of NiMoO ₄ -NRs@RGO nanocomposites for oxygen evolution and oxygen reduction reactions. <i>Journal of King Saud University - Science</i> , 2021, 33, 101317.	1.6	25
32	Single phase multi color emitting Ca ₂ LuTaO ₆ : Dy ³⁺ /Eu ³⁺ double perovskite oxide phosphors. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4911-4922.	1.9	16
33	Fabrication of GaN nano-towers based self-powered UV photodetector. <i>Scientific Reports</i> , 2021, 11, 10859.	1.6	55
34	Magnetic Nanoparticles – A Multifunctional Potential Agent for Diagnosis and Therapy. <i>Cancers</i> , 2021, 13, 2213.	1.7	58
35	Investigation of structural and electrical properties of synthesized Sr-doped lanthanum cobaltite (La _{1-x} Sr _x CoO ₃) perovskite oxide. <i>Journal of King Saud University - Science</i> , 2021, 33, 101419.	1.6	21
36	Synthesis, structure and photoluminescence properties of Ca ₂ YTaO ₆ :Bi ³⁺ +Eu ³⁺ double perovskite white light emitting phosphors. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159257.	2.8	32

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37	Self-assembled chitosan polymer intercalating peptide functionalized gold nanoparticles as nanoprobe for efficient imaging of urokinase plasminogen activator receptor in cancer diagnostics. <i>Carbohydrate Polymers</i> , 2021, 266, 118138.	5.1	33
38	Microporous activated carbon as adsorbent for the removal of noxious anthraquinone acid dyes: Role of adsorbate functionalization. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106308.	3.3	13
39	Activated InN nanocolumns as sensitive halogen sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1759-1765.	1.1	2
40	Synthesis of perovskite bismuth ferrite embedded nitrogen-doped Carbon (BiFeO ₃ -NC) nanocomposite for energy storage application. <i>Journal of Energy Storage</i> , 2021, 44, 103515.	3.9	23
41	Synthesis, Characterization and Enhanced Visible Light Photocatalytic Performance of ZnWO ₄ -NPs@rGO Nanocomposites. <i>Catalysts</i> , 2021, 11, 1536.	1.6	9
42	Copper nickel@reduced graphene oxide nanocomposite as bifunctional electro-catalyst for excellent oxygen evolution and oxygen reduction reactions. <i>Materials Letters</i> , 2020, 260, 126969.	1.3	20
43	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. <i>Journal of Cleaner Production</i> , 2020, 248, 119251.	4.6	73
44	Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. <i>Composites Part B: Engineering</i> , 2020, 183, 107655.	5.9	104
45	Hydrothermal preparation of Zn-doped In ₂ O ₃ nanostructure and its microstructural, optical, magnetic, photocatalytic and dielectric behaviour. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156479.	2.8	32
46	Efficient Multifunctional Catalytic and Sensing Properties of Synthesized Ruthenium Oxide Nanoparticles. <i>Catalysts</i> , 2020, 10, 780.	1.6	14
47	Multifunctional Electrochemical Properties of Synthesized Non-Precious Iron Oxide Nanostructures. <i>Crystals</i> , 2020, 10, 751.	1.0	12
48	Cost-effective synthesis of NiCo ₂ O ₄ @nitrogen-doped carbon nanocomposite using waste PET plastics for high-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16701-16707.	1.1	23
49	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
50	Synthesis of double perovskite La ₂ MnNiO ₆ nanoparticles as highly efficient oxygen evolution electro-catalysts. <i>Ceramics International</i> , 2020, 46, 20038-20044.	2.3	12
51	Biosynthesis, characterization and photo-catalytic degradation of methylene blue using silver nanoparticles. <i>Materials Today: Proceedings</i> , 2020, 29, 1039-1043.	0.9	5
52	Investigations on microstructure, optical, magnetic, photocatalytic, and dielectric behaviours of pure and Co-doped ZnO NPs. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6360-6371.	1.1	20
53	Synthesis, characterization, and significant photochemical performances of delafossite AgFeO ₂ nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 493-503.	1.1	22
54	Quenching Assisted Reverse Micellar Synthesis and Electrical Properties of High Surface Area BiFeO ₃ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3823-3831.	0.9	12

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55	Hydrothermal synthesis of novel nickel oxide@nitrogenous mesoporous carbon nanocomposite using costless smoked cigarette filter for high performance supercapacitor. <i>Materials Letters</i> , 2020, 266, 127492.	1.3	53
56	Metal organic precursor derived Ba _{1-x} CaxZrO ₃ (0.05 ≤ x ≤ 0.20) nanoceramics for excellent capacitor applications. <i>Journal of King Saud University - Science</i> , 2020, 32, 1937-1943.	1.6	12
57	Flux synthesis, crystal structure and electrochemical properties of Na ₂ La ₂ P ₄ O ₁₂ material for supercapacitors. <i>Materials Letters</i> , 2020, 272, 127803.	1.3	2
58	Synthesis of ultrafine NiMoO ₄ nano-rods for excellent electro-catalytic performance in hydrogen evolution reactions. <i>Materials Letters</i> , 2019, 257, 126696.	1.3	28
59	Facile Synthesis of Mesoporous Fe ₂ O ₃ @g-C ₃ N ₄ -NCs for Efficient Bifunctional Electro-catalytic Activity (OER/ORR). <i>Scientific Reports</i> , 2019, 9, 14139.	1.6	84
60	Biogenesis of ZnO nanoparticles using <i>Pandanus odorifer</i> leaf extract: anticancer and antimicrobial activities. <i>RSC Advances</i> , 2019, 9, 15357-15369.	1.7	166
61	Fe/La/Zn nanocomposite with graphene oxide for photodegradation of phenylhydrazine. <i>Journal of Molecular Liquids</i> , 2019, 285, 362-374.	2.3	13
62	Electrocatalytic and Enhanced Photocatalytic Applications of Sodium Niobate Nanoparticles Developed by Citrate Precursor Route. <i>Scientific Reports</i> , 2019, 9, 4488.	1.6	75
63	Synthesis of Graphite Oxide/Cobalt Molybdenum Oxide Hybrid Nanosheets for Enhanced Electrochemical Performance in Supercapacitors and the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2019, 6, 2524-2530.	1.7	42
64	High-Surface-Area Sodium Tantalate Nanoparticles with Enhanced Photocatalytic and Electrical Properties Prepared through Polymeric Citrate Precursor Route. <i>ACS Omega</i> , 2019, 4, 19408-19419.	1.6	35
65	rGO supported NiWO ₄ nanocomposites for hydrogen evolution reactions. <i>Materials Letters</i> , 2019, 240, 51-54.	1.3	52
66	Green synthesis of Fe ₃ O ₄ nanoparticles using aqueous extracts of <i>Pandanus odoratissimus</i> leaves for efficient bifunctional electro-catalytic activity. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1427-1435.	1.6	32
67	An efficient and cost-effective tri-functional electrocatalyst based on cobalt ferrite embedded nitrogen doped carbon. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 1-9.	5.0	84
68	Cellulose gum and copper nanoparticles based hydrogel as antimicrobial agents against urinary tract infection (UTI) pathogens. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 803-809.	3.6	42
69	Bifunctional Electrocatalysts (Co ₉ S ₈ @NSC) Derived from a Polymer-metal Complex for the Oxygen Reduction and Oxygen Evolution Reactions. <i>ChemElectroChem</i> , 2018, 5, 355-361.	1.7	27
70	Reverse Micellar Synthesis, Characterization, Magnetic and Ferroelectric Properties of YFeO ₃ Nanoparticles. <i>Materials Today: Proceedings</i> , 2018, 5, 15303-15310.	0.9	9
71	Molten Salts Derived Copper Tungstate Nanoparticles as Bifunctional Electro-catalysts for Electrolysis of Water and Supercapacitor Applications. <i>ChemElectroChem</i> , 2018, 5, 3938-3945.	1.7	55
72	Synthesis, characterization and dielectric properties of TiO ₂ /CeO ₂ . <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	11

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73	Synthesis, characterization, multifunctional electrochemical (OGR/ORR/SCs) and photodegradable activities of ZnWO ₄ nanobricks. Journal of Sol-Gel Science and Technology, 2018, 87, 137-146.	1.1	61
74	Iron-Nickel Nanoparticles as Bifunctional Catalysts in Water Electrolysis. ChemElectroChem, 2017, 4, 1222-1226.	1.7	22
75	Multifunctional properties and applications of yttrium ferrite nanoparticles prepared by citrate precursor route. Materials and Design, 2017, 126, 331-338.	3.3	71
76	Synthesis of a recyclable mesoporous nanocomposite for efficient removal of toxic Hg ²⁺ from aqueous medium. Journal of Industrial and Engineering Chemistry, 2017, 53, 268-275.	2.9	29
77	Dielectric, optical and enhanced photocatalytic properties of CuCrO ₂ nanoparticles. RSC Advances, 2017, 7, 27549-27557.	1.7	55
78	Bifunctional electro-catalytic performances of CoWO ₄ nanocubes for water redox reactions (OER/ORR). RSC Advances, 2017, 7, 45615-45623.	1.7	94
79	Nitrogen-Doped Cobalt Ferrite/Carbon Nanocomposites for Supercapacitor Applications. ChemElectroChem, 2017, 4, 2952-2958.	1.7	59
80	Efficient photodegradation of methylthioninium chloride dye in aqueous using barium tungstate nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	27
81	Structural characterization and dielectric properties of ceria-titania nanocomposites in low ceria region. Materials Research Express, 2017, 4, 125016.	0.8	7
82	Synthesis, characterization, and enhanced photocatalytic properties of NiWO ₄ nanobricks. New Journal of Chemistry, 2017, 41, 8178-8186.	1.4	77
83	Synthesis, characterization and electrocatalytic properties of delafossite CuGaO ₂ . Journal of Solid State Chemistry, 2016, 242, 77-85.	1.4	46
84	Ultrafine Iridium Oxide Nanorods Synthesized by Molten Salt Method toward Electrocatalytic Oxygen and Hydrogen Evolution Reactions. Electrochimica Acta, 2016, 212, 686-693.	2.6	76
85	Sol-gel synthesis, structural characterization and bifunctional catalytic activity of nanocrystalline delafossite CuGaO ₂ particles. Journal of Alloys and Compounds, 2016, 688, 1157-1161.	2.8	33
86	Delafossite CuAlO ₂ Nanoparticles with Electrocatalytic Activity toward Oxygen and Hydrogen Evolution Reactions. ACS Symposium Series, 2015, , 57-72.	0.5	18
87	Effect of gold ion concentration on size and properties of gold nanoparticles in TritonX-100 based inverse microemulsions. Applied Nanoscience (Switzerland), 2014, 4, 491-498.	1.6	49
88	Scalable synthesis of delafossite CuAlO ₂ nanoparticles for p-type dye-sensitized solar cells applications. Journal of Alloys and Compounds, 2014, 591, 275-279.	2.8	74
89	Structural Characterization, Antifungal Activity and Optical Properties of Gold Nanoparticles Prepared by Reverse Micelles. Advanced Science Letters, 2014, 20, 1631-1636.	0.2	9
90	Effect of high manganese substitution at ZnO host lattice using solvothermal method: Structural characterization and properties. Materials Chemistry and Physics, 2013, 138, 519-528.	2.0	20

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91	Biosynthesis, structural characterization and antimicrobial activity of gold and silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 107, 227-234.	2.5	212
92	Structural characterization and antimicrobial properties of silver nanoparticles prepared by inverse microemulsion method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 243-250.	2.5	65
93	Antifungal activity of gold nanoparticles prepared by solvothermal method. <i>Materials Research Bulletin</i> , 2013, 48, 12-20.	2.7	127
94	Synthesis of MSnO ₃ (M=Ba, Sr) nanoparticles by reverse micelle method and particle size distribution analysis by whole powder pattern modeling. <i>Materials Research Bulletin</i> , 2012, 47, 2282-2287.	2.7	31
95	Enhanced Electrocatalytic Activity of Copper–Cobalt Nanostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14526-14533.	1.5	39
96	Self-assembly of copper nanoparticles (cubes, rods and spherical nanostructures): Significant role of morphology on hydrogen and oxygen evolution efficiencies. <i>Solid State Sciences</i> , 2011, 13, 855-861.	1.5	41
97	Silver nanoparticles: Ultrasonic wave assisted synthesis, optical characterization and surface area studies. <i>Materials Letters</i> , 2011, 65, 520-522.	1.3	199
98	Nanorods of transition metal oxalates: A versatile route to the oxide nanoparticles. <i>Arabian Journal of Chemistry</i> , 2011, 4, 125-134.	2.3	42
99	Silver nanoparticles: Large scale solvothermal synthesis and optical properties. <i>Materials Research Bulletin</i> , 2010, 45, 1033-1038.	2.7	105
100	Binary Fe–Co Alloy Nanoparticles Showing Significant Enhancement in Electrocatalytic Activity Compared with Bulk Alloys. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18779-18784.	1.5	60
101	Palladacycle containing nitrogen and selenium: highly active pre-catalyst for the Suzuki–Miyaura coupling reaction and unprecedented conversion into nano-sized Pd ₁₇ Se ₁₅ . <i>Chemical Communications</i> , 2010, 46, 5954.	2.2	134
102	Microemulsion-mediated synthesis of cobalt (pure fcc and hexagonal phases) and cobalt–nickel alloy nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 814-819.	5.0	99
103	Controlled growth of nanocrystalline rods, hexagonal plates and spherical particles of the vaterite form of calcium carbonate. <i>CrystEngComm</i> , 2009, 11, 927.	1.3	39
104	Controlling the Size, Morphology, and Aspect Ratio of Nanostructures Using Reverse Micelles: A Case Study of Copper Oxalate Monohydrate. <i>Langmuir</i> , 2009, 25, 6469-6475.	1.6	70
105	Development of a microemulsion-based process for synthesis of cobalt (Co) and cobalt oxide (Co ₃ O ₄) nanoparticles from submicrometer rods of cobalt oxalate. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 434-441.	5.0	92
106	Bimetallic Cu–Ni nanoparticles of varying composition (CuNi ₃ , CuNi, Cu ₃ Ni). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 331, 206-212.	2.3	112
107	Tin dioxide nanoparticles: Reverse micellar synthesis and gas sensing properties. <i>Materials Research Bulletin</i> , 2008, 43, 264-271.	2.7	36
108	Microemulsion route to the synthesis of nanoparticles. <i>Pure and Applied Chemistry</i> , 2008, 80, 2451-2477.	0.9	81

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109	Controlled Synthesis of Nanomaterials using Reverse Micelles. Defence Science Journal, 2008, 58, 531-544.	0.5	12
110	Chemistry of Reverse Micelles: A Versatile Route to the Synthesis of Nanorods and Nanoparticles. , 2008, , .		1
111	Mimicking the Biomineralization of Aragonite (Calcium Carbonate) Using Reverse-Micelles Under Ambient Conditions. Journal of Nanoscience and Nanotechnology, 2007, 7, 1760-1767.	0.9	10
112	Polymeric metal complex-derived nitrogen-doped carbon-encapsulated γ -Fe ₂ O ₃ (NCF) nanocomposites as highly efficient adsorbent for the removal of Cd ²⁺ ion from aqueous medium. , 0, 162, 303-312.		3
113	Excellent stability, recyclable nature and high photo-catalytic performance of graphite oxide/Fe ₃ O ₄ nanocomposites. , 0, 168, 291-297.		0