Jahangeer Ahmed

List of Publications by Year
in descending order

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113	4,542	81743	118652
papers	citations	39 h-index	62 g-index

116	116	116	4695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biosynthesis, structural characterization and antimicrobial activity of gold and silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2013, 107, 227-234.	2.5	212
2	Silver nanoparticles: Ultrasonic wave assisted synthesis, optical characterization and surface area studies. Materials Letters, 2011, 65, 520-522.	1.3	199
3	Biogenesis of ZnO nanoparticles using Pandanus odorifer leaf extract: anticancer and antimicrobial activities. RSC Advances, 2019, 9, 15357-15369.	1.7	166
4	Palladacycle containing nitrogen and selenium: highly active pre-catalyst for the Suzukiâ€“Miyaura coupling reaction and unprecedented conversion into nano-sized Pd17Se15. Chemical Communications, 2010, 46, 5954.	2.2	134
5	Antifungal activity of gold nanoparticles prepared by solvothermal method. Materials Research Bulletin, 2013, 48, 12-20.	2.7	127
6	Bimetallic Cuâ€“Ni nanoparticles of varying composition (CuNi3, CuNi, Cu3Ni). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 331, 206-212.	2.3	112
7	Silver nanoparticles: Large scale solvothermal synthesis and optical properties. Materials Research Bulletin, 2010, 45, 1033-1038.	2.7	105
8	Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. Composites Part B: Engineering, 2020, 183, 107655.	5.9	104
9	Microemulsion-mediated synthesis of cobalt (pure fcc and hexagonal phases) and cobaltâ€“nickel alloy nanoparticles. Journal of Colloid and Interface Science, 2009, 336, 814-819.	5.0	99
10	Bifunctional electro-catalytic performances of CoWO₄ nanocubes for water redox reactions (OER/ORR). RSC Advances, 2017, 7, 45615-45623.	1.7	94
11	Development of a microemulsion-based process for synthesis of cobalt (Co) and cobalt oxide (Co3O4) nanoparticles from submicrometer rods of cobalt oxalate. Journal of Colloid and Interface Science, 2008, 321, 434-441.	5.0	92
12	Rare earth doped metal oxide nanoparticles for photocatalysis: a perspective. Nanotechnology, 2022, 33, 142001.	1.3	90
13	An efficient and cost-effective tri-functional electrocatalyst based on cobalt ferrite embedded nitrogen doped carbon. Journal of Colloid and Interface Science, 2018, 514, 1-9.	5.0	84
14	Facile Synthesis of Mesoporous Î±-Fe2O3@g-C3N4-NCs for Efficient Bifunctional Electro-catalytic Activity (OER/ORR). Scientific Reports, 2019, 9, 14139.	1.6	84
15	Microemulsion route to the synthesis of nanoparticles. Pure and Applied Chemistry, 2008, 80, 2451-2477.	0.9	81
16	Synthesis, characterization, and enhanced photocatalytic properties of NiWO₄ nanobricks. New Journal of Chemistry, 2017, 41, 8178-8186.	1.4	77
17	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
18	Electrocatalytic and Enhanced Photocatalytic Applications of Sodium Niobate Nanoparticles Developed by Citrate Precursor Route. Scientific Reports, 2019, 9, 4488.	1.6	75

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19	Scalable synthesis of delafossite CuAlO2 nanoparticles for p-type dye-sensitized solar cells applications. Journal of Alloys and Compounds, 2014, 591, 275-279.	2.8	74
20	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. Journal of Cleaner Production, 2020, 248, 119251.	4.6	73
21	Multifunctional properties and applications of yttrium ferrite nanoparticles prepared by citrate precursor route. Materials and Design, 2017, 126, 331-338.	3.3	71
22	Controlling the Size, Morphology, and Aspect Ratio of Nanostructures Using Reverse Micelles: A Case Study of Copper Oxalate Monohydrate. Langmuir, 2009, 25, 6469-6475.	1.6	70
23	Structural characterization and antimicrobial properties of silver nanoparticles prepared by inverse microemulsion method. Colloids and Surfaces B: Biointerfaces, 2013, 101, 243-250.	2.5	65
24	Synthesis, characterization, multifunctional electrochemical (OGR/ORR/SCs) and photodegradable activities of ZnWO4 nanobricks. Journal of Sol-Gel Science and Technology, 2018, 87, 137-146.	1.1	61
25	Binary Feâ€“Co Alloy Nanoparticles Showing Significant Enhancement in Electrocatalytic Activity Compared with Bulk Alloys. Journal of Physical Chemistry C, 2010, 114, 18779-18784.	1.5	60
26	Nitrogenâ€Doped Cobalt Ferrite/Carbon Nanocomposites for Supercapacitor Applications. ChemElectroChem, 2017, 4, 2952-2958.	1.7	59
27	Magnetic Nanoparticlesâ€”A Multifunctional Potential Agent for Diagnosis and Therapy. Cancers, 2021, 13, 2213.	1.7	58
28	Dielectric, optical and enhanced photocatalytic properties of CuCrO₂ nanoparticles. RSC Advances, 2017, 7, 27549-27557.	1.7	55
29	Molten Salts Derived Copper Tungstate Nanoparticles as Bifunctional Electroâ€Catalysts for Electrolysis of Water and Supercapacitor Applications. ChemElectroChem, 2018, 5, 3938-3945.	1.7	55
30	Fabrication of GaN nano-towers based self-powered UV photodetector. Scientific Reports, 2021, 11, 10859.	1.6	55
31	Hydrothermal synthesis of novel nickel oxide@nitrogenous mesoporous carbon nanocomposite using costless smoked cigarette filter for high performance supercapacitor. Materials Letters, 2020, 266, 127492.	1.3	53
32	rGO supported NiWO4 nanocomposites for hydrogen evolution reactions. Materials Letters, 2019, 240, 51-54.	1.3	52
33	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
34	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
35	Synthesis, characterization and electrocatalytic properties of delafossite CuGaO2. Journal of Solid State Chemistry, 2016, 242, 77-85.	1.4	46
36	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

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37	Nanorods of transition metal oxalates: A versatile route to the oxide nanoparticles. Arabian Journal of Chemistry, 2011, 4, 125-134.	2.3	42
38	Cellulose gum and copper nanoparticles based hydrogel as antimicrobial agents against urinary tract infection (UTI) pathogens. International Journal of Biological Macromolecules, 2018, 109, 803-809.	3.6	42
39	Synthesis of Graphite Oxide/Cobalt Molybdenum Oxide Hybrid Nanosheets for Enhanced Electrochemical Performance in Supercapacitors and the Oxygen Evolution Reaction. ChemElectroChem, 2019, 6, 2524-2530.	1.7	42
40	Nitrogen-doped carbon quantum dots (N-CQDs)/Co3O4 nanocomposite for high performance supercapacitor. Journal of King Saud University - Science, 2021, 33, 101252.	1.6	42
41	Self-assembly of copper nanoparticles (cubes, rods and spherical nanostructures): Significant role of morphology on hydrogen and oxygen evolution efficiencies. Solid State Sciences, 2011, 13, 855-861.	1.5	41
42	Silver-doped SnO₂nanostructures for photocatalytic water splitting and catalytic nitrophenol reduction. New Journal of Chemistry, 2022, 46, 2846-2857.	1.4	40
43	Controlled growth of nanocrystalline rods, hexagonal plates and spherical particles of the vaterite form of calcium carbonate. CrystEngComm, 2009, 11, 927.	1.3	39
44	Enhanced Electrocatalytic Activity of Copperâ€“Cobalt Nanostructures. Journal of Physical Chemistry C, 2011, 115, 14526-14533.	1.5	39
45	Tin dioxide nanoparticles: Reverse micellar synthesis and gas sensing properties. Materials Research Bulletin, 2008, 43, 264-271.	2.7	36
46	High-Surface-Area Sodium Tantalate Nanoparticles with Enhanced Photocatalytic and Electrical Properties Prepared through Polymeric Citrate Precursor Route. ACS Omega, 2019, 4, 19408-19419.	1.6	35
47	Sol â€“ gel synthesis, structural characterization and bifunctional catalytic activity of nanocrystalline delafossite CuGaO2 particles. Journal of Alloys and Compounds, 2016, 688, 1157-1161.	2.8	33
48	Self-assembled chitosan polymer intercalating peptide functionalized gold nanoparticles as nanoprobe for efficient imaging of urokinase plasminogen activator receptor in cancer diagnostics. Carbohydrate Polymers, 2021, 266, 118138.	5.1	33
49	Green synthesis of Fe3O4 nanoparticles using aqueous extracts of Pandanus odoratissimus leaves for efficient bifunctional electro-catalytic activity. Applied Nanoscience (Switzerland), 2018, 8, 1427-1435.	1.6	32
50	Hydrothermal preparation of Zn-doped In2O3 nanostructure and its microstructural, optical, magnetic, photocatalytic and dielectric behaviour. Journal of Alloys and Compounds, 2020, 846, 156479.	2.8	32
51	Modern aspects of strategies for developing single-phase broadly tunable white light-emitting phosphors. Journal of Materials Chemistry C, 2021, 9, 13041-13071.	2.7	32
52	Synthesis, structure and photoluminescence properties of Ca2YTaO6:Bi3+Eu3+ double perovskite white light emitting phosphors. Journal of Alloys and Compounds, 2021, 868, 159257.	2.8	32
53	Synthesis of MSnO3 (M=Ba, Sr) nanoparticles by reverse micelle method and particle size distribution analysis by whole powder pattern modeling. Materials Research Bulletin, 2012, 47, 2282-2287.	2.7	31
54	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

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55	Synthesis of ultrafine NiMoO4 nano-rods for excellent electro-catalytic performance in hydrogen evolution reactions. Materials Letters, 2019, 257, 126696.	1.3	28
56	Efficient photodegradation of methylthioninium chloride dye in aqueous using barium tungstate nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	27
57	Bifunctional Electrocatalysts (Co₉S₈@NSC) Derived from a Polymerâ€metal Complex for the Oxygen Reduction and Oxygen Evolution Reactions. ChemElectroChem, 2018, 5, 355-361.	1.7	27
58	Significant recycled efficiency of multifunctional nickel molybdenum oxide nanorods in photo-catalysis, electrochemical glucose sensing and asymmetric supercapacitors. Materials Characterization, 2021, 171, 110741.	1.9	27
59	Influence of silver doping on the structure, optical and photocatalytic properties of Ag-doped BaTiO3 ceramics. Materials Chemistry and Physics, 2021, 259, 124058.	2.0	26
60	Investigation of microstructural and magnetic properties of Ca2+ doped strontium hexaferrite nanoparticles. Journal of King Saud University - Science, 2022, 34, 101963.	1.6	26
61	Bifunctional electro-catalytic performances of NiMoO4-NRs@RGO nanocomposites for oxygen evolution and oxygen reduction reactions. Journal of King Saud University - Science, 2021, 33, 101317.	1.6	25
62	Modified, Solvothermally Derived Cr-doped SnO₂ Nanostructures for Enhanced Photocatalytic and Electrochemical Water-Splitting Applications. ACS Omega, 2022, 7, 14138-14147.	1.6	24
63	Cost-effective synthesis of NiCo2O4@nitrogen-doped carbon nanocomposite using waste PET plastics for high-performance supercapacitor. Journal of Materials Science: Materials in Electronics, 2020, 31, 16701-16707.	1.1	23
64	Synthesis of perovskite bismuth ferrite embedded nitrogen-doped Carbon (BiFeO3-NC) nanocomposite for energy storage application. Journal of Energy Storage, 2021, 44, 103515.	3.9	23
65	Ironâ€“Nickel Nanoparticles as Bifunctional Catalysts in Water Electrolysis. ChemElectroChem, 2017, 4, 1222-1226.	1.7	22
66	Synthesis, characterization, and significant photochemical performances of delafossite AgFeO2 nanoparticles. Journal of Sol-Gel Science and Technology, 2020, 94, 493-503.	1.1	22
67	BaTiO3@rGO nanocomposite: enhanced photocatalytic activity as well as improved electrode performance. Journal of Materials Science: Materials in Electronics, 2021, 32, 12911-12921.	1.1	21
68	Investigation of structural and electrical properties of synthesized Sr-doped lanthanum cobaltite (La1â^'xSrxCoO3) perovskite oxide. Journal of King Saud University - Science, 2021, 33, 101419.	1.6	21
69	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
70	Copper nickel@reduced graphene oxide nanocomposite as bifunctional electro-catalyst for excellent oxygen evolution and oxygen reduction reactions. Materials Letters, 2020, 260, 126969.	1.3	20
71	Investigations on microstructure, optical, magnetic, photocatalytic, and dielectric behaviours of pure and Co-doped ZnO NPs. Journal of Materials Science: Materials in Electronics, 2020, 31, 6360-6371.	1.1	20
72	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

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73	Delafossite CuAlO₂Nanoparticles with Electrocatalytic Activity toward Oxygen and Hydrogen Evolution Reactions. ACS Symposium Series, 2015, , 57-72.	0.5	18
74	Development of structure and tuning ability of the luminescence of lead-free halide perovskite nanocrystals (NCs). Chemical Engineering Journal, 2021, 420, 127603.	6.6	18
75	Broad band white-light-emitting Y5Si3O12N:Ce3+/Dy3+ oxonitridosilicate phosphors for solid state lighting applications. Journal of Luminescence, 2021, 229, 117687.	1.5	17
76	The hybrid halide perovskite: Synthesis strategies, fabrications, and modern applications. Ceramics International, 2022, 48, 7325-7343.	2.3	17
77	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
78	H2S sensing material Pt-WO3 nanorods with excellent comprehensive performance. Journal of Alloys and Compounds, 2022, 900, 163398.	2.8	17
79	Self-Assembled Interwoven Nanohierarchitectures of NaNbO₃ and NaNb_{1â€“x}Ta_xO₃ (0.05 â‰¤ x â‰¤ 0.20): Synthesis, Structural Characterization, Photocatalytic Applications, and Dielectric Properties. ACS Omega, 2022, 7, 16952-16967.	1.6	17
80	Single phase multi color emitting Ca₂LuTaO₆: Dy³⁺/Eu³⁺ double perovskite oxide phosphors. Journal of the American Ceramic Society, 2021, 104, 4911-4922.	1.9	16
81	Zinc molybdenum oxide sub-micron plates as electro-catalysts for hydrogen evolution reactions in acidic medium. Materials Letters, 2021, 284, 128996.	1.3	15
82	Frequency and temperature dependence of dielectric permittivity/electric modulus, and efficient photocatalytic action of Fe-doped CeO2 NPs. Journal of Alloys and Compounds, 2021, 856, 158127.	2.8	15
83	Efficient Multifunctional Catalytic and Sensing Properties of Synthesized Ruthenium Oxide Nanoparticles. Catalysts, 2020, 10, 780.	1.6	14
84	Fe/La/Zn nanocomposite with graphene oxide for photodegradation of phenylhydrazine. Journal of Molecular Liquids, 2019, 285, 362-374.	2.3	13
85	Microporous activated carbon as adsorbent for the removal of noxious anthraquinone acid dyes: Role of adsorbate functionalization. Journal of Environmental Chemical Engineering, 2021, 9, 106308.	3.3	13
86	Multifunctional Electrochemical Properties of Synthesized Non-Precious Iron Oxide Nanostructures. Crystals, 2020, 10, 751.	1.0	12
87	Synthesis of double perovskite La2MnNiO6 nanoparticles as highly efficient oxygen evolution electro-catalysts. Ceramics International, 2020, 46, 20038-20044.	2.3	12
88	Quenching Assisted Reverse Micellar Synthesis and Electrical Properties of High Surface Area BiFeO₃ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2020, 20, 3823-3831.	0.9	12
89	Metal organic precursor derived Ba1-xCaxZrO3 (0.05Ââ‰¤xÂâ‰¤Â0.20) nanoceramics for excellent capacitor applications. Journal of King Saud University - Science, 2020, 32, 1937-1943.	1.6	12
90	Controlled Synthesis of Nanomaterials using Reverse Micelles. Defence Science Journal, 2008, 58, 531-544.	0.5	12

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91	B-doped SnO2 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
92	Synthesis, characterization and dielectric properties of $$hbox {TiO}_{2}$$ TiO 2 â€“ $$hbox {CeO}_{2}$$ CeO. Bulletin of Materials Science, 2018, 41, 1.	0.8	11
93	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
94	Reverse Micellar Synthesis, Characterization, Magnetic and Ferroelectric Properties of YFeO3 Nanoparticles. Materials Today: Proceedings, 2018, 5, 15303-15310.	0.9	9
95	Structural Characterization, Antifungal Activity and Optical Properties of Gold Nanoparticles Prepared by Reverse Micelles. Advanced Science Letters, 2014, 20, 1631-1636.	0.2	9
96	Iron-based composite nanomaterials for eco-friendly photocatalytic hydrogen generation. Ceramics International, 2022, 48, 15026-15033.	2.3	9
97	Synthesis, Characterization and Enhanced Visible Light Photocatalytic Performance of ZnWO4-NPs@rGO Nanocomposites. Catalysts, 2021, 11, 1536.	1.6	9
98	Nanomagnetic strontium ferrite nitrogen doped carbon (SrFe2O4-NC): Synthesis, characterization and excellent supercapacitor performance. Journal of Energy Storage, 2022, 52, 104821.	3.9	9
99	Utilization of Phyllanthus emblica fruitÂstone as a Potential Biomaterial for Sustainable Remediation of Lead and Cadmium Ions from Aqueous Solutions. Molecules, 2022, 27, 3355.	1.7	9
100	Structural characterization and dielectric properties of ceriaâ€“titania nanocomposites in low ceria region. Materials Research Express, 2017, 4, 125016.	0.8	7
101	External influences of cactus type composite for hydrogen evolution reaction. Journal of Alloys and Compounds, 2022, 903, 163813.	2.8	6
102	Optical thermometry based on the luminescence intensity ratio of Dy3+-doped GdPO4 phosphors. Journal of Thermal Analysis and Calorimetry, 2022, 147, 11769-11775.	2.0	6
103	Biosynthesis, characterization and photo-catalytic degradation of methylene blue using silver nanoparticles. Materials Today: Proceedings, 2020, 29, 1039-1043.	0.9	5
104	MAPbI3-based efficient, transparent and air-stable broadband photodetectors. Indian Journal of Physics, 2022, 96, 903-908.	0.9	3
105	1.3 kW Continuous Wave Output Power of Ytterbium-Doped Large-Core Fiber Laser. ECS Journal of Solid State Science and Technology, 2021, 10, 026005.	0.9	3
106	Polymeric metal complex-derived nitrogen-doped carbon-encapsulated Î±-Fe2O3 (NCF) nanocomposites as highly efficient adsorbent for the removal of Cd2+ ion from aqueous medium. , 0, 162, 303-312.		3
107	Reduced Graphene Oxide Supported Zinc Tungstate Nanoparticles as Proficient Electro-Catalysts for Hydrogen Evolution Reactions. Catalysts, 2022, 12, 530.	1.6	3
108	Flux synthesis, crystal structure and electrochemical properties of Na2La2P4O12 material for supercapacitors. Materials Letters, 2020, 272, 127803.	1.3	2

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109	Effects of Cu doping on the structural, photoluminescence and impedance spectroscopy of CoS2 thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 3948-3957.	1.1	2
110	Activated InN nanocolumns as sensitive halogen sensor. Journal of Materials Science: Materials in Electronics, 2021, 32, 1759-1765.	1.1	2
111	Cu-doping effects on nanostructural, electrical and optical properties of CuxPd1âˆ'xS/p-Si heterojunction. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	1
112	Chemistry of Reverse Micelles: A Versatile Route to the Synthesis of Nanorods and Nanoparticles. , 2008, , .		1
113	Excellent stability, recyclable nature and high photo-catalytic performance of graphite oxide/Fe3O4 nanocomposites. , 0, 168, 291-297.		0