Sajid Ali Ansari

List of Publications by Year
in descending order

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161 papers	11,072 citations	23567 58 h-index	32842 100 g-index
166 all docs	166 docs citations	166 times ranked	12857 citing authors

#	Article	IF	Citations
1	Band gap engineered TiO₂nanoparticles for visible light induced photoelectrochemical and photocatalytic studies. Journal of Materials Chemistry A, 2014, 2, 637-644.	10.3	751
2	Nitrogen-doped titanium dioxide (N-doped TiO₂) for visible light photocatalysis. New Journal of Chemistry, 2016, 40, 3000-3009.	2.8	549
3	Oxygen vacancy induced band gap narrowing of ZnO nanostructures by an electrochemically active biofilm. Nanoscale, 2013, 5, 9238.	5.6	523
4	Biogenic Synthesis, Photocatalytic, and Photoelectrochemical Performance of Agâ€“ZnO Nanocomposite. Journal of Physical Chemistry C, 2013, 117, 27023-27030.	3.1	368
5	Defect-Induced Band Gap Narrowed CeO₂ Nanostructures for Visible Light Activities. Industrial & Engineering Chemistry Research, 2014, 53, 9754-9763.	3.7	278
6	Band gap engineering of CeO₂ nanostructure using an electrochemically active biofilm for visible light applications. RSC Advances, 2014, 4, 16782-16791.	3.6	266
7	Au@TiO2 nanocomposites for the catalytic degradation of methyl orange and methylene blue: An electron relay effect. Journal of Industrial and Engineering Chemistry, 2014, 20, 1584-1590.	5.8	234
8	Highly Visible Light Responsive, Narrow Band gap TiO2 Nanoparticles Modified by Elemental Red Phosphorus for Photocatalysis and Photoelectrochemical Applications. Scientific Reports, 2016, 6, 25405.	3.3	222
9	Highly visible light active Ag@TiO2 nanocomposites synthesized using an electrochemically active biofilm: a novel biogenic approach. Nanoscale, 2013, 5, 4427.	5.6	219
10	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.	3.5	192
11	3â€Indolylacetonitrile Decreases Escherichia coli O157:H7 Biofilm Formation and Pseudomonas aeruginosa Virulence. Environmental Microbiology, 2011, 13, 62-73.	3.8	166
12	Anion selective pTSA doped polyaniline@graphene oxide-multiwalled carbon nanotube composite for Cr(VI) and Congo red adsorption. Journal of Colloid and Interface Science, 2017, 496, 407-415.	9.4	159
13	Simple and Large Scale Construction of MoS2-g-C3N4 Heterostructures Using Mechanochemistry for High Performance Electrochemical Supercapacitor and Visible Light Photocatalytic Applications. Scientific Reports, 2017, 7, 43055.	3.3	157
14	Band gap narrowing of titanium dioxide (TiO2) nanocrystals by electrochemically active biofilms and their visible light activity. Nanoscale, 2013, 5, 6323.	5.6	155
15	Simultaneous sulfur doping and exfoliation of graphene from graphite using an electrochemical method for supercapacitor electrode materials. Journal of Materials Chemistry A, 2016, 4, 233-240.	10.3	151
16	Fungi-assisted silver nanoparticle synthesis and their applications. Bioprocess and Biosystems Engineering, 2018, 41, 1-20.	3.4	151
17	Environmentally Sustainable Fabrication of Ag@g-C₃N₄ Nanostructures and Their Multifunctional Efficacy as Antibacterial Agents and Photocatalysts. ACS Applied Nano Materials, 2018, 1, 2912-2922.	5.0	142
18	CdS-graphene Nanocomposite for Efficient Visible-light-driven Photocatalytic and Photoelectrochemical Applications. Journal of Colloid and Interface Science, 2016, 482, 221-232.	9.4	140

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19	Fibrous polyaniline@manganese oxide nanocomposites as supercapacitor electrode materials and cathode catalysts for improved power production in microbial fuel cells. Physical Chemistry Chemical Physics, 2016, 18, 9053-9060.	2.8	133
20	Ce3+-ion, Surface Oxygen Vacancy, and Visible Light-induced Photocatalytic Dye Degradation and Photocapacitive Performance of CeO2-Graphene Nanostructures. Scientific Reports, 2017, 7, 5928.	3.3	133
21	Biogenic synthesis of a Agâ€“graphene nanocomposite with efficient photocatalytic degradation, electrical conductivity and photoelectrochemical performance. New Journal of Chemistry, 2015, 39, 8121-8129.	2.8	130
22	Self-Assembled 3D Flower-Like Nickel Hydroxide Nanostructures and Their Supercapacitor Applications. Scientific Reports, 2016, 6, 27318.	3.3	127
23	Silver nanoparticles and defect-induced visible light photocatalytic and photoelectrochemical performance of Ag@m-TiO2 nanocomposite. Solar Energy Materials and Solar Cells, 2015, 141, 162-170.	6.2	126
24	Facile Synthesis of SnS₂ Nanostructures with Different Morphologies for High-Performance Supercapacitor Applications. ACS Omega, 2018, 3, 1581-1588.	3.5	125
25	Biogenic Fabrication of Au@CeO₂ Nanocomposite with Enhanced Visible Light Activity. Journal of Physical Chemistry C, 2014, 118, 9477-9484.	3.1	123
26	Fabrication of WO₃ nanorods on graphene nanosheets for improved visible light-induced photocapacitive and photocatalytic performance. RSC Advances, 2016, 6, 20824-20833.	3.6	121
27	Highly visible light active Ag@ZnO nanocomposites synthesized by gel-combustion route. Journal of Industrial and Engineering Chemistry, 2014, 20, 1602-1607.	5.8	104
28	Visible light-driven photocatalytic and photoelectrochemical studies of Agâ€“SnO₂ nanocomposites synthesized using an electrochemically active biofilm. RSC Advances, 2014, 4, 26013-26021.	3.6	103
29	Electrochemically active biofilm assisted synthesis of Ag@CeO2 nanocomposites for antimicrobial activity, photocatalysis and photoelectrodes. Journal of Colloid and Interface Science, 2014, 431, 255-263.	9.4	102
30	Facile and sustainable synthesis of carbon-doped ZnO nanostructures towards the superior visible light photocatalytic performance. New Journal of Chemistry, 2017, 41, 9314-9320.	2.8	102
31	Visible light-induced enhanced photoelectrochemical and photocatalytic studies of gold decorated SnO₂nanostructures. New Journal of Chemistry, 2015, 39, 2758-2766.	2.8	101
32	Enhanced electrochemical behavior and hydrophobicity of crystalline polyaniline@graphene nanocomposite synthesized at elevated temperature. Composites Part B: Engineering, 2016, 87, 281-290.	12.0	94
33	Polythiophene nanocomposites for photodegradation applications: Past, present and future. Journal of Saudi Chemical Society, 2015, 19, 494-504.	5.2	91
34	Mechanically exfoliated MoS2 sheet coupled with conductive polyaniline as a superior supercapacitor electrode material. Journal of Colloid and Interface Science, 2017, 504, 276-282.	9.4	91
35	Microbial fuel cell assisted band gap narrowed TiO2 for visible light-induced photocatalytic activities and power generation. Scientific Reports, 2018, 8, 1723.	3.3	91
36	Gold nanoparticles-sensitized wide and narrow band gap TiO₂ for visible light applications: a comparative study. New Journal of Chemistry, 2015, 39, 4708-4715.	2.8	90

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37	Recent progress of metalâ€“graphene nanostructures in photocatalysis. Nanoscale, 2018, 10, 9427-9440.	5.6	89
38	Potentials of Costus woodsonii leaf extract in producing narrow band gap ZnO nanoparticles. Materials Science in Semiconductor Processing, 2019, 91, 194-200.	4.0	84
39	VO₂ Nanostructures for Batteries and Supercapacitors: A Review. Small, 2021, 17, e2006651.	10.0	82
40	Simultaneous Enhancement of Methylene Blue Degradation and Power Generation in a Microbial Fuel Cell by Gold Nanoparticles. Industrial & Engineering Chemistry Research, 2013, 52, 8174-8181.	3.7	81
41	Enhanced Thermal Stability under DC Electrical Conductivity Retention and Visible Light Activity of Ag/TiO₂@Polyaniline Nanocomposite Film. ACS Applied Materials & Interfaces, 2014, 6, 8124-8133.	8.0	81
42	Green synthesis, photocatalytic and photoelectrochemical performance of an Auâ€“Graphene nanocomposite. RSC Advances, 2015, 5, 26897-26904.	3.6	80
43	Electrochemically active biofilm-mediated synthesis of silver nanoparticles in water. Green Chemistry, 2011, 13, 1482.	9.0	78
44	Synergistically effective and highly visible light responsive SnO2-g-C3N4 nanostructures for improved photocatalytic and photoelectrochemical performance. Applied Surface Science, 2019, 495, 143432.	6.1	77
45	Enhanced thermoelectric behaviour and visible light activity of Ag@TiO₂/polyaniline nanocomposite synthesized by biogenic-chemical route. RSC Advances, 2014, 4, 23713-23719.	3.6	75
46	Metal free earth abundant elemental red phosphorus: a new class of visible light photocatalyst and photoelectrode materials. Physical Chemistry Chemical Physics, 2016, 18, 3921-3928.	2.8	74
47	pTSA doped conducting graphene/polyaniline nanocomposite fibers: Thermoelectric behavior and electrode analysis. Chemical Engineering Journal, 2014, 242, 155-161.	12.7	73
48	Novel Ag@TiO2 nanocomposite synthesized by electrochemically active biofilm for nonenzymatic hydrogen peroxide sensor. Materials Science and Engineering C, 2013, 33, 4692-4699.	7.3	70
49	Electrochemically active biofilm mediated bio-hydrogen production catalyzed by positively charged gold nanoparticles. International Journal of Hydrogen Energy, 2013, 38, 5243-5250.	7.1	70
50	Route to High Surface Area, Mesoporosity of Polyanilineâ€“Titanium Dioxide Nanocomposites via One Pot Synthesis for Energy Storage Applications. Industrial & Engineering Chemistry Research, 2016, 55, 116-124.	3.7	70
51	Sulfur-doped-graphitic-carbon nitride (S-g-C3N4) for low cost electrochemical sensing of hydrazine. Journal of Alloys and Compounds, 2020, 816, 152522.	5.5	70
52	Metal-Free Carbon-Based Materials: Promising Electrocatalysts for Oxygen Reduction Reaction in Microbial Fuel Cells. International Journal of Molecular Sciences, 2017, 18, 25.	4.1	67
53	Highly photoactive SnO₂ nanostructures engineered by electrochemically active biofilm. New Journal of Chemistry, 2014, 38, 2462-2469.	2.8	66
54	Temperature dependence anomalous dielectric relaxation in Co doped ZnO nanoparticles. Materials Research Bulletin, 2012, 47, 4161-4168.	5.2	64

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55	Enhanced activity of highly conformal and layered tin sulfide (SnSx) prepared by atomic layer deposition (ALD) on 3D metal scaffold towards high performance supercapacitor electrode. Scientific Reports, 2019, 9, 10225.	3.3	62
56	Adsorption promoted visible-light-induced photocatalytic degradation of antibiotic tetracycline by tin oxide/cerium oxide nanocomposite. Applied Surface Science, 2021, 565, 150337.	6.1	62
57	Biofilm-Assisted Fabrication of Ag@SnO₂-g-C₃N₄ Nanostructures for Visible Light-Induced Photocatalysis and Photoelectrochemical Performance. Journal of Physical Chemistry C, 2019, 123, 20936-20948.	3.1	60
58	Growth of three-dimensional flower-like SnS₂ on g-C₃N₄ sheets as an efficient visible-light photocatalyst, photoelectrode, and electrochemical supercapacitance material. Sustainable Energy and Fuels, 2017, 1, 510-519.	4.9	59
59	Solid-state symmetrical supercapacitor based on hierarchical flower-like nickel sulfide with shape-controlled morphological evolution. Electrochimica Acta, 2018, 268, 82-93.	5.2	59
60	Production of bioelectricity, bio-hydrogen, high value chemicals and bioinspired nanomaterials by electrochemically active biofilms. Biotechnology Advances, 2013, 31, 915-924.	11.7	57
61	Earth-abundant stable elemental semiconductor red phosphorus-based hybrids for environmental remediation and energy storage applications. RSC Advances, 2016, 6, 44616-44629.	3.6	56
62	Facile and Scale Up Synthesis of Red Phosphorus-Graphitic Carbon Nitride Heterostructures for Energy and Environment Applications. Scientific Reports, 2016, 6, 27713.	3.3	56
63	Simple and rapid synthesis of ternary polyaniline/titanium oxide/graphene by simultaneous TiO2 generation and aniline oxidation as hybrid materials for supercapacitor applications. Journal of Solid State Electrochemistry, 2017, 21, 57-68.	2.5	56
64	Three-dimensional SnS2 nanopetals for hybrid sodium-air batteries. Electrochimica Acta, 2017, 257, 328-334.	5.2	53
65	Environmentally sustainable biogenic fabrication of AuNP decorated-graphitic g-C₃N₄ nanostructures towards improved photoelectrochemical performances. RSC Advances, 2018, 8, 13898-13909.	3.6	50
66	Polyaniline-assisted silver nanoparticles: a novel support for the immobilization of Î±-amylase. Applied Microbiology and Biotechnology, 2013, 97, 1513-1522.	3.6	49
67	Edge-carboxylated graphene nanoplatelets as efficient electrode materials for electrochemical supercapacitors. Carbon, 2019, 142, 89-98.	10.3	49
68	Low-Temperature Atomic Layer Deposition of Highly Conformal Tin Nitride Thin Films for Energy Storage Devices. ACS Applied Materials & Interfaces, 2019, 11, 43608-43621.	8.0	47
69	Enhanced thermoelectric performance and ammonia sensing properties of sulfonated polyaniline/graphene thin films. Materials Letters, 2014, 114, 159-162.	2.6	46
70	Mixed Culture Electrochemically Active Biofilms and their Microscopic and Spectroelectrochemical Studies. ACS Sustainable Chemistry and Engineering, 2014, 2, 423-432.	6.7	46
71	Facile route to a conducting ternary polyaniline@TiO₂/GN nanocomposite for environmentally benign applications: photocatalytic degradation of pollutants and biological activity. RSC Advances, 2016, 6, 111308-111317.	3.6	45
72	Na,O-co-doped-graphitic-carbon nitride (Na,O-g-C3N4) for nonenzymatic electrochemical sensing of hydrogen peroxide. Applied Surface Science, 2020, 525, 146353.	6.1	45

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73	Positively Charged Gold Nanoparticles Synthesized by Electrochemically Active Biofilmâ€"A Biogenic Approach. Journal of Nanoscience and Nanotechnology, 2013, 13, 6079-6085.	0.9	44
74	Three-dimensional, highly porous N-doped carbon foam as microorganism propitious, efficient anode for high performance microbial fuel cell. RSC Advances, 2016, 6, 25799-25807.	3.6	44
75	Manganese oxide as an effective electrode material for energy storage: a review. Environmental Chemistry Letters, 2022, 20, 283-309.	16.2	44
76	Electrically conductive polyaniline sensitized defective-TiO₂for improved visible light photocatalytic and photoelectrochemical performance: a synergistic effect. New Journal of Chemistry, 2015, 39, 8381-8388.	2.8	42
77	A polyaniline@MoS₂-based organicâ€"inorganic nanohybrid for the removal of Congo red: adsorption kinetic, thermodynamic and isotherm studies. New Journal of Chemistry, 2018, 42, 18802-18809.	2.8	42
78	Ammonia vapor sensing and electrical properties of fibrous multi-walled carbon nanotube/polyaniline nanocomposites prepared in presence of cetyl-trimethylammonium bromide. Journal of Industrial and Engineering Chemistry, 2014, 20, 2010-2017.	5.8	41
79	Fundamentals and recent progress of Sn-based electrode materials for supercapacitors: A comprehensive review. Journal of Energy Storage, 2022, 53, 105187.	8.1	41
80	Ternary Composite of Polyaniline Graphene and TiO₂ as a Bifunctional Catalyst to Enhance the Performance of Both the Bioanode and Cathode of a Microbial Fuel Cell. Industrial & Engineering Chemistry Research, 2018, 57, 6705-6713.	3.7	40
81	Improved electrode performance in microbial fuel cells and the enhanced visible light-induced photoelectrochemical behaviour of PtO @M-TiO2 nanocomposites. Ceramics International, 2015, 41, 9131-9139.	4.8	39
82	Facile electrochemical assisted synthesis of ZnO/graphene nanosheets with enhanced photocatalytic activity. RSC Advances, 2015, 5, 97788-97797.	3.6	39
83	Lithium ion storage ability, supercapacitor electrode performance, and photocatalytic performance of tungsten disulfide nanosheets. New Journal of Chemistry, 2018, 42, 5859-5867.	2.8	39
84	Synthesis of Cu-Doped Mn₃O₄@Mn-Doped CuO Nanostructured Electrode Materials by a Solution Process for High-Performance Electrochemical Pseudocapacitors. ACS Omega, 2020, 5, 22356-22366.	3.5	39
85	Simple route for the generation of differently functionalized PVC@grapheneâ€"polyaniline fiber bundles for the removal of Congo red from wastewater. RSC Advances, 2015, 5, 61486-61494.	3.6	38
86	Simple route for gram synthesis of less defective few layered graphene and its electrochemical performance. RSC Advances, 2015, 5, 44920-44927.	3.6	38
87	A simple biogenic route to rapid synthesis of Au@TiO2 nanocomposites by electrochemically active biofilms. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	37
88	Anchoring Mechanism of ZnO Nanoparticles on Graphitic Carbon Nanofiber Surfaces through a Modified Coâ€Precipitation Method to Improve Interfacial Contact and Photocatalytic Performance. ChemPhysChem, 2015, 16, 3214-3232.	2.1	37
89	Phytogenic Synthesis of Band Gap-Narrowed ZnO Nanoparticles Using the Bulb Extract of Costus woodsonii. BioNanoScience, 2019, 9, 334-344.	3.5	37
90	SYNTHESIS, STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF IN-SITU SYNTHESIZED POLYANILINE/SILVER NANOCOMPOSITES. Functional Materials Letters, 2012, 05, 1250026.	1.2	36

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91	Fabrication of binary SnO2/TiO2 nanocomposites under a sonication-assisted approach: Tuning of band-gap and water depollution applications under visible light irradiation. Ceramics International, 2021, 47, 15073-15081.	4.8	36
92	Ag-modified SnO2-graphitic-carbon nitride nanostructures for electrochemical sensor applications. Ceramics International, 2021, 47, 23578-23589.	4.8	36
93	Gold Nanoparticles Produced Inâ€...Situ Mediate Bioelectricity and Hydrogen Production in a Microbial Fuel Cell by Quantized Capacitance Charging. ChemSusChem, 2013, 6, 246-250.	6.8	34
94	Manganese dioxide nanorods intercalated reduced graphene oxide nanocomposite toward high performance electrochemical supercapacitive electrode materials. Journal of Colloid and Interface Science, 2017, 506, 613-619.	9.4	34
95	Self-assembled Cube-like Copper Oxide Derived from a Metal-Organic Framework as a High-Performance Electrochemical Supercapacitive Electrode Material. Scientific Reports, 2019, 9, 9140.	3.3	34
96	Effect of nitrogen doping on the catalytic activity of carbon nano-onions for the oxygen reduction reaction in microbial fuel cells. Journal of Industrial and Engineering Chemistry, 2020, 81, 269-277.	5.8	34
97	Electrochemical synthesis of titanium nitride nanoparticles onto titanium foil for electrochemical supercapacitors with ultrafast charge/discharge. Sustainable Energy and Fuels, 2020, 4, 2480-2490.	4.9	34
98	Adsorption modeling and mechanistic insight of hazardous chromium on para toluene sulfonic acid immobilized-polyaniline@CNTs nanocomposites. Journal of Saudi Chemical Society, 2019, 23, 188-197.	5.2	33
99	Photoantioxidant studies of SnO2 nanoparticles fabricated using aqueous leaf extract of Tradescantia spathacea. Solid State Sciences, 2020, 105, 106279.	3.2	33
100	Effect of Ni-doping on properties of the SnO2 synthesized using Tradescantia spathacea for photoantioxidant studies. Materials Chemistry and Physics, 2020, 252, 123293.	4.0	32
101	Electrochemically synthesized sulfur-doped graphene as a superior metal-free cathodic catalyst for oxygen reduction reaction in microbial fuel cells. RSC Advances, 2016, 6, 103446-103454.	3.6	31
102	Feasibility of using hollow double walled Mn2O3 nanocubes for hybrid Na-air battery. Chemical Engineering Journal, 2019, 360, 415-422.	12.7	31
103	Enhanced optical, visible light catalytic and electrochemical properties of Au@TiO2 nanocomposites. Journal of Industrial and Engineering Chemistry, 2013, 19, 1845-1850.	5.8	29
104	Electrical conductivity, optical property and ammonia sensing studies on HCl Doped Au@polyaniline nanocomposites. Electronic Materials Letters, 2015, 11, 1-6.	2.2	28
105	Defected graphene nano-platelets for enhanced hydrophilic nature and visible light-induced photoelectrochemical performances. Journal of Physics and Chemistry of Solids, 2017, 104, 233-242.	4.0	27
106	Electrochemically active biofilm-assisted biogenic synthesis of an Ag-decorated ZnO@C coreâ€“shell ternary plasmonic photocatalyst with enhanced visible-photocatalytic activity. New Journal of Chemistry, 2018, 42, 1995-2005.	2.8	27
107	A metal-free and non-precious multifunctional 3D carbon foam for high-energy density supercapacitors and enhanced power generation in microbial fuel cells. Journal of Industrial and Engineering Chemistry, 2018, 60, 431-440.	5.8	27
108	Hydrothermally derived three-dimensional porous hollow double-walled Mn2O3 nanocubes as superior electrode materials for supercapacitor applications. Electrochimica Acta, 2020, 355, 136783.	5.2	27

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109	Conducting poly(aniline blue)-gold nanoparticles composite modified fluorine-doped tin oxide electrode for sensitive and non-enzymatic electrochemical detection of glucose. Journal of Electroanalytical Chemistry, 2019, 850, 113394.	3.8	26
110	Effect of Washing on the Electrochemical Performance of a Three-Dimensional Current Collector for Energy Storage Applications. Nanomaterials, 2021, 11, 1596.	4.1	25
111	Ammonia sensing and DC electrical conductivity studies of p-toluene sulfonic acid doped cetyltrimethylammonium bromide assisted V2O5@polyaniline composite nanofibers. Journal of Industrial and Engineering Chemistry, 2015, 22, 147-152.	5.8	23
112	Critical Aspects of Various Techniques for Synthesizing Metal Oxides and Fabricating Their Composite-Based Supercapacitor Electrodes: A Review. Nanomaterials, 2022, 12, 1873.	4.1	23
113	Facile strategy for the synthesis of non-covalently bonded and para-toluene sulfonic acid-functionalized fibrous polyaniline@grapheneâ€“PVC nanocomposite for the removal of Congo red. New Journal of Chemistry, 2015, 39, 7004-7011.	2.8	21
114	Electrosynthesis of a corn flake-like NiO nanostructure on nickel foam for polymer gel electrolyte-based high performance asymmetric supercapacitors. New Journal of Chemistry, 2017, 41, 10584-10591.	2.8	21
115	Effect of Gallium doping on CdS thin film properties and corresponding Cu(InGa)Se2/CdS:Ga solar cell performance. Thin Solid Films, 2018, 660, 207-212.	1.8	21
116	Indole oxidation enhances electricity production in an E. coli-catalyzed microbial fuel cell. Biotechnology and Bioprocess Engineering, 2014, 19, 126-131.	2.6	20
117	Intercalated reduced graphene oxide and its content effect on the supercapacitance performance of the three dimensional flower-like Î²-Ni(OH)₂ architecture. New Journal of Chemistry, 2017, 41, 10467-10475.	2.8	20
118	Preparation and Characterization of Cu and Al Doped ZnO Thin Films for Solar Cell Applications. Crystals, 2022, 12, 128.	2.2	20
119	Carbothermal process-derived porous N-doped carbon for flexible energy storage: Influence of carbon surface area and conductivity. Chemical Engineering Journal, 2019, 378, 122158.	12.7	19
120	One-pot flash combustion synthesis of Fe@NiO nanocomposites for supercapacitor applications. Ceramics International, 2021, 47, 9024-9033.	4.8	19
121	Directly grown of NiCo2S4 nanoparticles on a conducting substrate towards the high-performance counter electrode in dye-sensitized solar cell: A combined theoretical and experimental study. Solar Energy Materials and Solar Cells, 2021, 225, 111064.	6.2	18
122	Photocatalytic inactivation ofEscherichia coliunder UV light irradiation using large surface area anatase TiO₂quantum dots. Royal Society Open Science, 2019, 6, 191444.	2.4	16
123	Microbial fuel cell-assisted biogenic synthesis of gold nanoparticles and its application to energy production and hydrogen peroxide detection. Korean Journal of Chemical Engineering, 2020, 37, 1241-1250.	2.7	16
124	Synthesis of Positively Charged Gold Nanoparticles Using a Stainless-Steel Mesh. Journal of Nanoscience and Nanotechnology, 2013, 13, 6140-6144.	0.9	15
125	Effect of Co2+ and Ni2+ co-doping on SnO2 synthesized via phytogenic method for photoantioxidant studies and photoconversion of 4-nitrophenol. Materials Today Communications, 2020, 25, 101677.	1.9	15
126	Ultrasonic assisted anchoring of Yb2O3 nanorods on In2S3 nanoflowers for norfloxacin degradation and Cr(VI) reduction in water: Kinetics and degradation pathway. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127969.	4.7	15

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127	Escheriosome-mediated cytosolic delivery of PLK1-specific siRNA: potential in treatment of liver cancer in BALB/c mice. Nanomedicine, 2014, 9, 407-420.	3.3	14
128	Bio-synthesis of finely distributed Ag nanoparticle-decorated TiO2 nanorods for sunlight-induced photoelectrochemical water splitting. Journal of Industrial and Engineering Chemistry, 2019, 69, 48-56.	5.8	14
129	Silver Nanoparticles Embedded on Reduced Graphene Oxide@Copper Oxide Nanocomposite for High Performance Supercapacitor Applications. Materials, 2021, 14, 5032.	2.9	14
130	Facile and single-step route towards ZnO@C coreâ€“shell nanoparticles as an oxygen vacancy induced visible light active photocatalyst using the thermal decomposition of Zn(an)2(NO3)2. RSC Advances, 2016, 6, 70644-70652.	3.6	13
131	Simple and sustainable route for large scale fabrication of few layered molybdenum disulfide sheets towards superior adsorption of the hazardous organic pollutant. Journal of Materials Science: Materials in Electronics, 2018, 29, 7792-7800.	2.2	13
132	Facile route to porous polyaniline@nanodiamond-graphene based nanohybrid structures for DC electrical conductivity retention and supercapacitor applications. Journal of Polymer Research, 2019, 26, 1.	2.4	13
133	Silver Nanoparticle Decorated on Reduced Graphene Oxide-Wrapped Manganese Oxide Nanorods as Electrode Materials for High-Performance Electrochemical Devices. Crystals, 2022, 12, 389.	2.2	13
134	Zinc Oxide Nanoparticles Promote the Aggregation of Concanavalin A. International Journal of Peptide Research and Therapeutics, 2013, 19, 135-146.	1.9	12
135	Mechanochemical synthesis of melamine doped TiO2 nanoparticles for dye sensitized solar cells application. Journal of Materials Science: Materials in Electronics, 2018, 29, 9108-9116.	2.2	12
136	Green and Phytogenic Fabrication of Co-Doped SnO2 Using Aqueous Leaf Extract of Tradescantia spathacea for Photoantioxidant and Photocatalytic Studies. BioNanoScience, 2021, 11, 120-135.	3.5	12
137	DC electrical conductivity retention and electrical compensation of polyaniline by TiO2 at higher loading percentages in polyaniline@TiO2 nanocomposites. Electronic Materials Letters, 2015, 11, 559-564.	2.2	11
138	Positively Charged Gold Nanoparticles for Hydrogen Peroxide Detection. BioNanoScience, 2018, 8, 537-543.	3.5	11
139	Solvothermal growth of 3D flower-like CoS@FTO as high-performance counter electrode for dye-sensitized solar cell. Journal of Materials Science: Materials in Electronics, 2019, 30, 6929-6935.	2.2	11
140	Development of Ti/Ni Nanolayered Structures to Be a New Candidate for Energy Storage Applications. Applied Sciences (Switzerland), 2020, 10, 6935.	2.5	11
141	A highly sensitive poly(chrysoidine G)â€“gold nanoparticle composite based nitrite sensor for food safety applications. Analytical Methods, 2020, 12, 5562-5571.	2.7	11
142	Dielectric Properties of Colossal-Dielectric-Constant Na1/2La1/2Cu3Ti4O12 Ceramics Prepared by Spark Plasma Sintering. Molecules, 2022, 27, 779.	3.8	11
143	Mechanistic insights into defect chemistry and tailored photoluminescence and photocatalytic properties of aliovalent cation substituted Zn_{0.94}M_{0.06â”‹x}Li_xO (M: Fe³⁺,) Tj ETQq1 1 0.784314 rgBT /Overlo	3.3	10
144	Development of Binder Free Interconnected 3D Flower of NiZn2O4 as an Advanced Electrode Materials for Supercapacitor Applications. Crystals, 2022, 12, 14.	2.2	10

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145	Nanostructured Cuprous-Oxide-Based Screen-Printed Electrode for Electrochemical Sensing of Picric Acid. Journal of Electronic Materials, 2018, 47, 7505-7513.	2.2	8
146	Graphiticâ€'carbon nitride based mixed-phase bismuth nanostructures: Tuned optical and structural properties with boosted photocatalytic performance for wastewater decontamination under visible-light irradiation. NanoImpact, 2021, 23, 100345.	4.5	8
147	Polyaniline-Functionalized TiO₂ Nanoparticles as a Suitable Matrix for Hydroquinone Sensor. Science of Advanced Materials, 2017, 9, 2032-2038.	0.7	8
148	Concentration Dependent Improved Spectroscopic Characteristics and Near White Light Emission in Boro Phosphate Glasses Doped with Holmium. Applied Sciences (Switzerland), 2022, 12, 2632.	2.5	8
149	Simple fabrication and unprecedented visible light response of NiNb₂O₆/RGO heterojunctions for the degradation of emerging pollutants in water. New Journal of Chemistry, 2021, 45, 22697-22713.	2.8	7
150	Wrinkle-Shaped Nickel Sulfide Grown on Three-Dimensional Nickel Foam: A Binder-Free Electrode Designed for High-Performance Electrochemical Supercapacitor Applications. Crystals, 2022, 12, 757.	2.2	7
151	Surface Plasmon-Based Nanomaterials as Photocatalyst. Environmental Chemistry for A Sustainable World, 2019, , 173-187.	0.5	6
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