

R Geetha Balakrishna

List of Publications by Year in descending order

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143
papers

4,641
citations

117625

34
h-index

133252

59
g-index

146
all docs

146
docs citations

146
times ranked

6190
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromones as a privileged scaffold in drug discovery: A review. <i>European Journal of Medicinal Chemistry</i> , 2014, 78, 340-374.	5.5	379
2	Nanostructured binary and ternary metal sulfides: synthesis methods and their application in energy conversion and storage devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22040-22094.	10.3	341
3	Quantum dots as fluorescent probes: Synthesis, surface chemistry, energy transfer mechanisms, and applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1191-1214.	7.8	221
4	<i>N</i> -heterocyclic carbene metal complexes as bio-organometallic antimicrobial and anticancer drugs. <i>Future Medicinal Chemistry</i> , 2015, 7, 1305-1333.	2.3	141
5	Combustion synthesis and characterization of NiO nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 194-202.	4.0	110
6	Photocatalytic semiconductor thin films for hydrogen production and environmental applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18289-18308.	7.1	102
7	Functional properties of electrospun NiO/RuO ₂ composite carbon nanofibers. <i>Journal of Alloys and Compounds</i> , 2012, 517, 69-74.	5.5	97
8	Perovskite nanomaterials as optical and electrochemical sensors. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2702-2725.	6.0	91
9	Exploration of graphene oxide nanoribbons as excellent electron conducting network for third generation solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 211-219.	6.2	88
10	Mixed Halide Perovskite Solar Cells. Consequence of Iodide Treatment on Phase Segregation Recovery. <i>ACS Energy Letters</i> , 2018, 3, 2267-2272.	17.4	83
11	Aminated polysulfone/TiO ₂ composite membranes for an effective removal of Cr(VI). <i>Chemical Engineering Journal</i> , 2016, 283, 1494-1505.	12.7	75
12	Novel modified poly vinyl chloride blend membranes for removal of heavy metals from mixed ion feed sample. <i>Journal of Hazardous Materials</i> , 2017, 331, 289-299.	12.4	75
13	Recent advances and strategies to tailor the energy levels, active sites and electron mobility in titania and its doped/composite analogues for hydrogen evolution in sunlight. <i>Catalysis Science and Technology</i> , 2019, 9, 12-46.	4.1	74
14	Hydrogels of polyaniline with graphene oxide for highly sensitive electrochemical determination of lead ions. <i>Analytica Chimica Acta</i> , 2017, 990, 67-77.	5.4	72
15	Studies on Bare and Mg-doped LiCoO ₂ as a cathode material for Lithium ion Batteries. <i>Electrochimica Acta</i> , 2014, 128, 192-197.	5.2	64
16	Strongly co-ordinated MOF-PSF matrix for selective adsorption, separation and photodegradation of dyes. <i>Chemical Engineering Journal</i> , 2022, 428, 132561.	12.7	61
17	Covalently Linked Heterostructures of Phosphorene with MoS ₂ /MoSe ₂ and Their Remarkable Hydrogen Evolution Reaction Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27780-27787.	8.0	60
18	Polypyrrole-reduced graphene oxide nanocomposite hydrogels: A promising electrode material for the simultaneous detection of multiple heavy metal ions. <i>Materials Letters</i> , 2018, 232, 209-212.	2.6	55

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19	Nanoflower like structures of MoSe ₂ and MoS ₂ as efficient catalysts for hydrogen evolution. <i>Materials Letters</i> , 2018, 220, 133-135.	2.6	53
20	Review on perovskite silicon tandem solar cells: Status and prospects 2T, 3T and 4T for real world conditions. <i>Materials and Design</i> , 2021, 211, 110138.	7.0	53
21	Preparation and Characterization of Chitosan Thin Films on Mixed-Matrix Membranes for Complete Removal of Chromium. <i>ChemistryOpen</i> , 2015, 4, 278-287.	1.9	48
22	Development of an Electrochemical Platform Based on Nanoplate-like Zirconium Phosphate for the Detection of Furazolidone. <i>ACS Applied Nano Materials</i> , 2020, 3, 4522-4529.	5.0	48
23	Photoexcitation of neodymium doped TiO ₂ for improved performance in dye-sensitized solar cells. <i>Materials and Design</i> , 2016, 104, 346-354.	7.0	44
24	Magnetic nanoparticle-ethered Schiff base-palladium(II): Highly active and reusable heterogeneous catalyst for Suzuki-Miyaura cross-coupling and reduction of nitroarenes in aqueous medium at room temperature. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4266.	3.5	44
25	Biomolecule-derived quantum dots for sustainable optoelectronics. <i>Nanoscale Advances</i> , 2019, 1, 913-936.	4.6	42
26	Synthesis and Comparative Study of Nano-TiO ₂ Over Degussa P25 in Disinfection of Water. <i>Photochemistry and Photobiology</i> , 2010, 86, 628-632.	2.5	40
27	Constructing a High-Performance Aqueous Rechargeable Zinc-Ion Battery Cathode with Self-Assembled Mat-like Packing of Intertwined Ag(I) Pre-Inserted V ₃ O ₇ -H ₂ O Microbelts with Reduced Graphene Oxide Core. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3985-3995.	6.7	40
28	Efficient algal lipid extraction via photocatalysis and its conversion to biofuel. <i>Applied Energy</i> , 2016, 168, 364-374.	10.1	39
29	Fouling resistant functional blend membrane for removal of organic matter and heavy metal ions. <i>Journal of Environmental Management</i> , 2019, 232, 372-381.	7.8	38
30	The effect of UV irradiation on PSf/TiO ₂ mixed matrix membrane for chromium rejection. <i>Desalination</i> , 2014, 354, 189-199.	8.2	37
31	Tapioca starch: An efficient fuel in gel-combustion synthesis of photocatalytically and anti-microbially active ZnO nanoparticles. <i>Materials Characterization</i> , 2015, 99, 266-276.	4.4	37
32	Electrochemical Performance of BaSnO ₃ Anode Material for Lithium-Ion Battery Prepared by Molten Salt Method. <i>Journal of the Electrochemical Society</i> , 2016, 163, A540-A545.	2.9	36
33	A review on electrical characterization techniques performed to study the device performance of quantum dot sensitized solar cells. <i>Solar Energy</i> , 2018, 159, 682-696.	6.1	36
34	Environmentally friendly and cost effective caramel for congo red removal, high flux, and fouling resistance of polysulfone membranes. <i>Separation and Purification Technology</i> , 2019, 211, 348-358.	7.9	36
35	Elucidation of Cell Killing Mechanism by Comparative Analysis of Photoreactions on Different Types of Bacteria. <i>Photochemistry and Photobiology</i> , 2012, 88, 414-422.	2.5	34
36	Zwitterionic ultrafiltration membranes for As(V) rejection. <i>Chemical Engineering Journal</i> , 2017, 308, 347-358.	12.7	34

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37	Unraveling the electrochemical properties of lanthanum cobaltite decorated halloysite nanotube nanocomposite: An advanced electrocatalyst for determination of flutamide in environmental samples. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 110098.	6.0	34
38	Dendritic Ferroselite (FeSe ₂) with 2D Carbon-Based Nanosheets of rGO and g-C ₃ N ₄ as Efficient Catalysts for Electrochemical Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2020, 3, 12682-12691.	5.1	33
39	Stabilization of CsPbBr ₃ quantum dots for photocatalysis, imaging and optical sensing in water and biological medium: a review. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6935-6956.	5.5	33
40	Synthesis and characterization of novel sulfanilic acid-polyvinyl chloride-polysulfone blend membranes for metal ion rejection. <i>RSC Advances</i> , 2016, 6, 25492-25502.	3.6	31
41	Simple quantum dot bioprobe/label for sensitive detection of Staphylococcus aureus TNase. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1201-1208.	7.8	31
42	Eco-friendly membrane process and product development for complete elimination of chromium toxicity in wastewater. <i>Journal of Hazardous Materials</i> , 2017, 332, 112-123.	12.4	31
43	Aggregation induced light harvesting of molecularly engineered D-A- π -A carbazole dyes for dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 174, 1085-1096.	6.1	31
44	Synergistic design of a tin phosphate-entrapped graphene flake nanocomposite as an efficient catalyst for electrochemical determination of the antituberculosis drug isoniazid in biological samples. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1831-1841.	6.0	31
45	Hydrogenase Enzyme like Nanocatalysts FeS ₂ and FeSe ₂ for Molecular Hydrogen Evolution Reaction. <i>Materials Letters</i> , 2019, 248, 39-42.	2.6	31
46	Organic Conjugated Polymer-Based Functional Nanohybrids. , 2019, , 357-379.		31
47	Bifunctional Titania Float for Metal Ion Reduction and Organics Degradation, via Sunlight. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16162-16168.	3.7	28
48	Synthesis, exploration of energy storage and electrochemical sensing properties of hematite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016, 671, 552-559.	5.5	28
49	Naturally derived polysaccharides-modified PSF membranes: A potency in enriching the antifouling nature of membranes. <i>Separation and Purification Technology</i> , 2020, 230, 115887.	7.9	28
50	Lanthanum cobaltite supported on graphene nanosheets for non-enzymatic electrochemical determination of catechol. <i>Mikrochimica Acta</i> , 2020, 187, 189.	5.0	28
51	Review on recent advances of core-shell structured lead halide perovskites quantum dots. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155246.	5.5	28
52	Enhanced Bactericidal Activity of Modified Titania in Sunlight against <i>Pseudomonas aeruginosa</i> , a Water-Borne Pathogen. <i>Photochemistry and Photobiology</i> , 2010, 86, 1127-1134.	2.5	27
53	Enhanced photocatalytic hydrogen production from Y ₂ O ₃ /TiO ₂ nano-composites: a comparative study on hydrothermal synthesis with and without an ionic liquid. <i>New Journal of Chemistry</i> , 2016, 40, 3578-3587.	2.8	27
54	An OFF-ON quantum dot-graphene oxide bioprobe for sensitive detection of micrococcal nuclease of <i>Staphylococcus aureus</i> . <i>Analyst</i> , The, 2019, 144, 3999-4005.	3.5	27

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55	Effective composite membranes of cellulose acetate for removal of benzophenone-3. <i>Journal of Water Process Engineering</i> , 2019, 30, 100419.	5.6	27
56	Recent progress in H_2O -in-salt TM and H_2O -in-salt TM -hybrid-electrolyte-based high voltage rechargeable batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1619-1654.	4.9	27
57	Graphene oxide-Cu(II) composite electrode for non-enzymatic determination of hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2016, 776, 59-65.	3.8	26
58	Variation of the donor and acceptor in $\text{D}\pi\text{A}\pi\text{A}'\text{A}\pi\text{A}$ based cyanopyridine dyes and its effect on dye sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 15673-15680.	2.8	25
59	Recent case studies on the use of ozone to combat coronavirus: Problems and perspectives. <i>Environmental Technology and Innovation</i> , 2021, 21, 101313.	6.1	25
60	Gel-combustion synthesized vanadium pentoxide nanowire clusters for rechargeable lithium batteries. <i>Journal of Alloys and Compounds</i> , 2017, 695, 850-858.	5.5	24
61	Remarkably selective biocompatible turn-on fluorescent probe for detection of Fe^{3+} in human blood samples and cells. <i>RSC Advances</i> , 2019, 9, 27439-27448.	3.6	24
62	Paper based field deployable sensor for naked eye monitoring of copper (II) ions; elucidation of binding mechanism by DFT studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117291.	3.9	24
63	Heterocyclic modification of chitosan for the adsorption of Cu (II) and Cr (VI) ions. <i>Separation Science and Technology</i> , 2018, 53, 1979-1990.	2.5	23
64	Revisiting the materials and mechanism of metal oxynitrides for photocatalysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7691-7705.	7.1	23
65	Multidentate ligand approach for conjugation of perovskite quantum dots to biomolecules. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 758-770.	9.4	23
66	Synergistic effect of binary ligands on nucleation and growth/size effect of nanocrystals: Studies on reusability of the solvent. <i>Journal of Materials Research</i> , 2014, 29, 1556-1564.	2.6	22
67	Low temperature molten salt synthesis of $\text{Y}_2\text{Sn}_2\text{O}_7$ anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015, 182, 1060-1069.	5.2	22
68	AgBiS_2 as a photoabsorber for eco-friendly solar cells: a review. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8615-8625.	10.3	22
69	Novel hydrothermal method for effective doping of N and F into nano Titania for both, energy and environmental applications. <i>Materials Research Bulletin</i> , 2016, 74, 478-484.	5.2	21
70	Sunlight active PSf/TiO_2 hybrid membrane for elimination of chromium. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 339, 89-94.	3.9	21
71	Effect of hydraulic coefficient on membrane performance for rejection of emerging contaminants. <i>Chemical Engineering Journal</i> , 2018, 334, 2392-2400.	12.7	21
72	Glucose oxidase mimicking half-sandwich nickel(II) complexes of coumarin substituted $\text{N}\pi\text{A}\pi\text{A}$ -heterocyclic carbenes as novel molecular electrocatalysts for ultrasensitive and selective determination of glucose. <i>Biosensors and Bioelectronics</i> , 2019, 134, 24-28.	10.1	21

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73	Green to Blue Light Emitting CsPbBr ₃ Perovskite by Ligand Exchange and its Encapsulation by TiO ₂ for Tandem Effect in Photovoltaic Applications. ACS Applied Nano Materials, 2020, 3, 6089-6098.	5.0	21
74	Prolific approach for the removal of dyes by an effective interaction with polymer matrix using ultrafiltration membrane. Journal of Environmental Chemical Engineering, 2021, 9, 106328.	6.7	21
75	Excellent hydrogen evolution by a multi approach via structureâ€“property tailoring of titania. RSC Advances, 2015, 5, 39122-39130.	3.6	20
76	Observation of oxo-bridged yttrium in TiO ₂ nanostructures and their enhanced photocatalytic hydrogen generation under UV/Visible light irradiations. Materials Research Bulletin, 2018, 104, 212-219.	5.2	20
77	Effective recovery of acids from egg waste incorporated PSf membranes: A step towards sustainable development. Journal of Membrane Science, 2018, 549, 227-235.	8.2	20
78	Magnetic Nanoparticles Impregnated, Cross-Linked, Porous Chitosan Microspheres for Efficient Adsorption of Methylene Blue from Pharmaceutical Waste Water. Journal of Polymers and the Environment, 2019, 27, 2408-2418.	5.0	20
79	Facile high yield synthesis of MgCo ₂ O ₄ and investigation of its role as anode material for lithium ion batteries. Ceramics International, 2019, 45, 14775-14782.	4.8	20
80	Study on precipitation efficiency of solvents in postpreparative treatment of nanocrystals. Journal of Materials Research, 2013, 28, 3003-3009.	2.6	19
81	A Fluorescent Chemodosimeter for Hg ²⁺ Based on a Spirolactam Ring-Opening Strategy and its Application Towards Mercury Determination in Aqueous and Cellular Media. Journal of Fluorescence, 2014, 24, 67-74.	2.5	19
82	Gold Nanorods as an Efficient Substrate for the Detection and Degradation of Pesticides. Langmuir, 2020, 36, 7332-7344.	3.5	19
83	Ultra-trace level chemosensing of uranyl ions; scuffle between electron and energy transfer from perovskite quantum dots to adsorbed uranyl ions. Microchemical Journal, 2020, 156, 104808.	4.5	19
84	La activated high surface area titania float for the adsorption of Pb(II) from aqueous media. New Journal of Chemistry, 2018, 42, 1067-1077.	2.8	19
85	Preparation and Characterization of High Activity Zirconium-Doped Anatase Titania for Solar Photocatalytic Degradation of Ethidium Bromide. Chinese Journal of Catalysis, 2011, 32, 789-794.	14.0	18
86	Neodymium doped titania as photoanode and graphene oxideâ€“CuS composite as counter electrode material in quantum dot solar cell. Journal of Materials Research, 2015, 30, 3241-3251.	2.6	18
87	Gel-combustion-synthesized ZnO nanoparticles for visible light-assisted photocatalytic hydrogen generation. Bulletin of Materials Science, 2017, 40, 345-354.	1.7	18
88	Observation of simultaneous photocatalytic degradation and hydrogen evolution on the lanthanum modified TiO ₂ nanostructures. Materials Letters, 2018, 218, 262-265.	2.6	18
89	Atomic force microscopic study of nanoscale interaction between N719 dye and CdSe quantum dot in hybrid solar cells and their enhanced open circuit potential. Solar Energy, 2015, 116, 25-36.	6.1	16
90	Supplementing multi-functional groups to polysulfone membranes using Azadirachta indica leaves powder for effective and highly selective acid recovery. Journal of Hazardous Materials, 2019, 369, 1-8.	12.4	16

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91	Surface modified glass substrate for sensing E. coli using highly stable and luminescent CdSe/CdS core shell quantum dots. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 204, 111799.	3.8	16
92	Inner Filter Effect as a Boon in Perovskite Sensing Systems to Achieve Higher Sensitivity Levels. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57264-57273.	8.0	16
93	Synthesis and design of PSf/TiO ₂ composite membranes for reduction of chromium (VI): Stability and reuse of the product and the process. <i>Journal of Materials Research</i> , 2014, 29, 1537-1545.	2.6	15
94	Photoactive Titania Float for Disinfection of Water; Evaluation of Cell Damage by Bioanalytical Techniques. <i>Photochemistry and Photobiology</i> , 2014, 90, 1099-1107.	2.5	15
95	Transition metal nanohybrid as efficient and stable counter electrode for heterostructure quantum dot sensitized solar cells: A trial. <i>Solar Energy</i> , 2020, 201, 674-681.	6.1	15
96	Pyrochlores: oxygen-rich moieties as ceramic fillers in uplifting the antifouling property and dye removal capacity of polymeric membranes. <i>Separation and Purification Technology</i> , 2021, 272, 118946.	7.9	15
97	Comparative study of homogeneous and heterogeneous photo-oxidative treatment on bacterial cell via multianalytical techniques. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 295, 11-16.	3.9	14
98	4-aminophenyl sulfone (APS) as novel monomer in fabricating paper based TFC composite for forward osmosis: Selective layer optimization. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103664.	6.7	14
99	Investigation of MnCo ₂ O ₄ /MWCNT composite as anode material for lithium ion battery. <i>Ceramics International</i> , 2019, 45, 10619-10625.	4.8	13
100	An expeditious method for the ultra-level chemosensing of uranyl ions. <i>Analytical Methods</i> , 2020, 12, 1070-1076.	2.7	13
101	Synthesis of poly(4,4'-biphenylene sulfonyl succinamide)-polysulfone blend membranes for removal of toxic metal ions from water. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48254.	2.6	12
102	Reliability of 3D Cs ₂ M ⁺ M ⁺ X ₆ type absorbers for perovskite solar cells: assessing the figures of merit. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17701-17719.	10.3	12
103	Perovskite-like ceramic hole transport material for quantum dot sensitized solar cells. <i>Solar Energy</i> , 2021, 224, 355-360.	6.1	12
104	Heterostructure of CsPbBr ₃ -CdS perovskite quantum dots for enhanced stability and charge transfer. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 275, 115513.	3.5	12
105	Structural modification and property tailoring in titania for high efficiency in sunlight. <i>Materials Chemistry and Physics</i> , 2012, 136, 720-728.	4.0	11
106	Ionic Liquid Assisted Hydrothermal Syntheses of TiO ₂ /CuO Nano-Composites for Enhanced Photocatalytic Hydrogen Production from Water. <i>ChemistrySelect</i> , 2016, 1, 2199-2206.	1.5	11
107	Conjugated molecular bridges: A new direction to escalate linker assisted QDSSC performance. <i>Solar Energy</i> , 2019, 194, 74-78.	6.1	11
108	Lattice constriction and trapped excitons: a structure-property relationship unveiled in CsPbBr ₃ perovskite QDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17090-17098.	5.5	11

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109	Performance of functionalized 1T-MoS ₂ as composite counter electrode material for QDSSCs and its analogy with 2H-MoS ₂ . <i>Materials Research Bulletin</i> , 2021, 134, 111096.	5.2	11
110	Biomass derived carbon dot decorated ssDNA for a "turn-on" fluorescent assay for detection of <i>Staphylococcus aureus</i> MNase. <i>New Journal of Chemistry</i> , 2021, 45, 5890-5896.	2.8	11
111	Green AgBiSe ₂ /AgBiS ₂ core shell quantum dots for stable solar cells by robust SILAR method. <i>Journal of Cleaner Production</i> , 2022, 366, 132760.	9.3	11
112	Favorable influence of mPIAM on PSf blend membranes for ion rejection. <i>Journal of Membrane Science</i> , 2017, 533, 229-240.	8.2	10
113	New 2-methoxy-4,6-bis(4-(4-nitrostyryl)phenyl)nicotinonitrile: Synthesis, characterization and DSSC study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 377, 75-79.	3.9	10
114	Ceramic grains: Highly promising hole transport material for solid state QDSSC. <i>Solar Energy Materials and Solar Cells</i> , 2020, 209, 110445.	6.2	10
115	Insights and future perspectives for constructing efficient electron pathways in photoanodes of QDSSCs. <i>Solar Energy</i> , 2021, 224, 650-665.	6.1	9
116	Review on Electrochemical Sensing of Triclosan using Nanostructured Semiconductor Materials. <i>ChemElectroChem</i> , 2022, 9, .	3.4	8
117	Nitrogenated Graphene Oxide-Decorated Metal Sulfides for Better Antifouling and Dye Removal. <i>ACS Omega</i> , 2022, 7, 9674-9683.	3.5	8
118	Polycondensation of thiophene-flanked cyanopyridine and carbazole via direct arylation polymerization for solar cell application. <i>Reactive and Functional Polymers</i> , 2018, 133, 1-8.	4.1	7
119	Investigating the role of precipitating agents on the electrochemical performance of MgCo ₂ O ₄ . <i>Journal of Electroanalytical Chemistry</i> , 2019, 851, 113403.	3.8	7
120	Large scale synthesis of silane functionalized near-superhydrophobic aluminium hydroxide particles via facile surface grafting technique. <i>Materials Today Communications</i> , 2021, 26, 101744.	1.9	7
121	MoSe ₂ nanoflowers as a counter electrode for quantum dots sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 12201-12209.	2.2	7
122	Photo-active float for field water disinfection. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 447-455.	2.9	6
123	Amplification of active sites and porosity for the adsorption of QDs via the induction of the rare-earth element La into TiO ₂ for enhanced photovoltaic effects in QDSSCs. <i>New Journal of Chemistry</i> , 2020, 44, 20441-20448.	2.8	6
124	Photochemical Elimination of Endocrine Disrupting Chemical (EDC) by ZnO Nanoparticles, Synthesized by Gel Combustion. <i>Water Environment Research</i> , 2017, 89, 396-405.	2.7	5
125	Parametric studies on the storage stability and aging effect of biodiesel treated with <i>Eucalyptus</i> oil as a cost-effective green antioxidant additive. <i>International Journal of Energy Research</i> , 2020, 44, 11711-11724.	4.5	5
126	Highly efficient and durable electron transport layer for QDSSC: An integrated approach to address recombination losses. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162740.	5.5	5

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127	Comprehensive Analysis of Spinel-Type Mixed Metal Oxide-Functionalized Polysulfone Membranes toward Fouling Resistance and Dye and Natural Organic Matter Removal. ACS Omega, 2022, 7, 4859-4867.	3.5	5
128	One-Pot Synthesis of Flower like FeS ₂ as Counter Electrode for Quantum Dot Sensitized Solar Cells. Materials Today: Proceedings, 2019, 9, 594-598.	1.8	4
129	Influence of TiO ₂ charge and BSA-metal ion complexation on retention of Cr (VI) in ultrafiltration process. Journal of Alloys and Compounds, 2020, 832, 153986.	5.5	4
130	1D GNR@PPy Composite for Remarkably Sensitive Detection of Heavy Metal Ions in Environmental Water**. ChemElectroChem, 2022, 9, .	3.4	4
131	Ionic Liquid-Assisted Hydrothermal Synthesis of Silver Vanadate Nanorods. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 451-456.	1.5	3
132	Dissipation of Charge Accumulation and Suppression of Phase Segregation in Mixed Halide Perovskite Solar Cells via Nanoribbons. ACS Applied Energy Materials, 2022, 5, 2727-2737.	5.1	3
133	Structure and photocatalytic activity of Ti1 ⁿ X MX O ₂ (M = Zr, Co and Mo) synthesized by pulverized solid state technique. Open Chemistry, 2010, 8, 453-460.	1.9	2
134	Fabrication of TiO ₂ /poly (3-Cyanopyridine-fluorene) hybrid nanocomposite as electron transport layer for dye sensitized solar cell. Journal of Electroanalytical Chemistry, 2019, 838, 136-141.	3.8	2
135	An insight in photocurrent generation mechanism on Cu ₂ O quantum dot sensitized Cu/p-CuI photo-electrochemical cell and efficient H ₂ generation at Cu/p-CuI/Cu ₂ O electrolyte interface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 270, 115205.	3.5	2
136	Alcohol soluble cyanopyridine based conjugated donor-acceptor polymers: Synthesis, photophysical and their charge transport behavior. European Polymer Journal, 2017, 95, 1-10.	5.4	1
137	Gasoline pre-treated feedstock for the production of biodiesel with improved physicochemical properties. Biomass Conversion and Biorefinery, 0, , 1.	4.6	1
138	Erratum to "Structure and photocatalytic activity of Ti1 ⁿ XMxO ₂ (M = Zr, Co and Mo) synthesized by pulverized solid state technique". Open Chemistry, 2010, 8, 963-963.	1.9	0
139	Evaluation of bactericidal effect of Nd doped Degussa P-25 on Pseudomonas aeruginosa in sunlight. , 2011, , .		0
140	Fe-based metal organic frameworks for the simultaneous detection of multiple metal ions in aqueous medium by square wave voltammetry method. , 2020, , .		0
141	Anion-modified photocatalysts. , 2021, , 55-83.		0
142	Removal of BP-3 Endocrine Disrupting Chemical (EDC) using cellulose acetate and ZnO nano particles mixed matrix membranes. Membrane Water Treatment, 2016, 7, 507-520.	0.5	0
143	Switchable photovoltaic effect in solar cells: Architecture, features, and future scope. , 2022, , 161-184.		0