

Anandan sambandam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

335
papers

8,904
citations

48
h-index

77
g-index

347
ext. papers

10,291
ext. citations

5.2
avg, IF

6.79
L-index

#	Paper	IF	Citations
335	Graphitic carbon nitride for photocatalytic hydrogen production 2022 , 17-68		0
334	Ultrasound-aided synthesis of gold-loaded boron-doped graphene quantum dots interface towards simultaneous electrochemical determination of guanine and adenine biomolecules.. <i>Ultrasonics Sonochemistry</i> , 2022 , 83, 105921	8.9	1
333	Defective engineering of heterostructured N-Mo ₂ C@MoO _{3-x} electrode materials for the dual function of electrochemical sensing and supercapacitor applications. <i>Electrochimica Acta</i> , 2022 , 408, 139964	6.7	0
332	Chemical and Biological Remediation Technologies for the Effluents—Mineralization and Toxicological Effects of Nanocatalysts: An Overview. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2022 , 321-341	0.5	
331	Oil spills adsorption and cleanup by polymeric materials: A review. <i>Polymers for Advanced Technologies</i> , 2022 , 33, 1353-1384	3.2	2
330	A correlation between cavitation bubble temperature, sonoluminescence and interfacial chemistry - A minireview.. <i>Ultrasonics Sonochemistry</i> , 2022 , 85, 105988	8.9	2
329	Sonochemical decoration of palladium on graphene carpet for electrochemical methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 116289	4.1	1
328	Effect of an aqueous copper gel electrolyte with cobalt metal organic framework based additive on performance of aqueous-dye-sensitized solar cells. <i>Solar Energy</i> , 2022 , 236, 586-598	6.8	2
327	Defect-enriched heterointerfaces N-MoO ₂ /Mo ₂ C supported Pd nanocomposite as a novel multifunctional electrocatalyst for oxygen reduction reaction and overall water splitting. <i>Materials Today Chemistry</i> , 2022 , 24, 100799	6.2	1
326	Perovskite nanocomposite of defective yolk-shell BaHo ₂ Co ₃ O _{8-x} for electrochemical sensing of ractopamine in pork meat sample. <i>Materials Today Chemistry</i> , 2022 , 25, 100965	6.2	0
325	Highly sensitive and selective detection of glutathione using ultrasonic aided synthesis of graphene quantum dots embedded over amine-functionalized silica nanoparticles.. <i>Ultrasonics Sonochemistry</i> , 2021 , 82, 105868	8.9	5
324	LaCoFeO (001) spherical nanostructures prepared via ultrasonic approach as photocatalysts. <i>Ultrasonics Sonochemistry</i> , 2021 , 80, 105824	8.9	0
323	Studies on evaluation of surfactant coupled sonication pretreatment on <i>Ulva fasciata</i> (marine macroalgae) for enhanced biohydrogen production. <i>Ultrasonics Sonochemistry</i> , 2021 , 81, 105853	8.9	1
322	Hierarchical N-Mo ₃ C ₂ /Mo ₂ C nanohybrids and their superior supercapacitor performance in an ionic liquid electrolyte. <i>Journal of Energy Storage</i> , 2021 , 44, 103317	7.8	1
321	Development of an electrochemical enzyme-free glucose sensor based on self-assembled Pt-Pd bimetallic nanosuperlattices. <i>Analyst</i> , 2021 , 145, 7898-7906	5	8
320	Non-enzymatic glucose sensor and photocurrent performance of zinc oxide quantum dots supported multi-walled carbon nanotubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 265, 115036	3.1	12
319	Sonochemical dosimetry: A comparative study of Weissler, Fricke and terephthalic acid methods. <i>Ultrasonics Sonochemistry</i> , 2021 , 72, 105413	8.9	5

318	Laser-assisted decoration of carbon nanotubes with palladium nanoparticles for application in electrochemical methanol oxidation. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	3
317	Rice grain like Bi ₂ S ₃ nanorods and its photocatalytic performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 268, 115144	3.1	3
316	Growth, crystal structure, thermal, spectral studies and density functional theory computational analysis of an organic nonlinear optical crystal: 2-{3-[2-(4-dimethylaminophenyl)vinyl]-5,5-dimethylcyclohex-2-enylidene}-malonitrile. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26741	2.1	
315	Synthesis of high polydispersity index polylactic acid and its application as gel electrolyte towards fabrication of dye-sensitized solar cells. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	6
314	Effective carbon dioxide sorption by using phyllosilicate anchored poly(quaternary-ammoniumhydroxidemethyl styrene) nanocomposites. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-11	2.6	
313	Preparation of MgTiO nanoparticles for sonophotocatalytic degradation of triphenylmethane dyes. <i>Ultrasonics Sonochemistry</i> , 2021 , 75, 105585	8.9	12
312	Enhanced performance for photocatalytic hydrogen evolution using MoS ₂ /graphene hybrids. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 5938-5948	6.7	8
311	Hydrothermally regulating phase composition of TiO ₂ nanocrystals toward high photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2021 , 850, 156653	5.7	48
310	Enhanced performance of charge storage supercapattery by dominant oxygen deficiency in crystal defects of 2-D MoO _{3-x} nanoplates. <i>Applied Surface Science</i> , 2021 , 541, 148676	6.7	8
309	Upper rim modified calix[4]arene towards selective turn-on fluorescence sensor for spectroscopically silent metal ions. <i>Inorganica Chimica Acta</i> , 2021 , 516, 120133	2.7	4
308	Mercury removal from aqueous solution using petal-like MoS ₂ nanosheets. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 1	5.8	6
307	Performance of natural sensitizers on TiO ₂ hollow nano sphere based solar cells. <i>Materials Today: Proceedings</i> , 2021 , 35, 35-38	1.4	0
306	Platinum-free dye-sensitized solar cells by flower-like mixed-phase Co _x S _y /Ni _x S _y /Mo _x S _y composites. <i>New Journal of Chemistry</i> , 2021 , 45, 1967-1976	3.6	1
305	Nanoarchitected conducting polymers: Rational design and relative activity for next-generation supercapacitors 2021 , 27-58		
304	The aqueous dependent sensing of hydrazine and phosphate anions using a bis-heteroleptic Ru(II) complex with a phthalimide-anchored pyridine-triazole ligand. <i>Analyst, The</i> , 2021 , 146, 1430-1443	5	2
303	Synthesis and characterization of poly-3-(9H-carbazol-9-yl)propylmethacrylate as a gel electrolyte for dye-sensitized solar cell applications. <i>Polymer Bulletin</i> , 2021 , 1	2.4	3
302	Microstructural and electrochemical supercapacitive properties of Cr-doped CuO thin films: Effect of substrate temperature. <i>International Journal of Energy Research</i> , 2021 , 45, 20001	4.5	2
301	Performance of 4-Substituted Pyridine Based Additive and Cobalt Redox in Poly(ethylene glycol)Hydroxyethylcellulose Polymer Electrolytes with DTTCY Acid Sensitizer on Dye Sensitized Solar Cells. <i>Energy & Fuels</i> , 2021 , 35, 15045-15057	4.1	2

300	Nonlinear Optical Studies of Conjugated Organic Dyes for Optical Limiting Applications. <i>Journal of Molecular Structure</i> , 2021 , 1240, 130559	3.4	9
299	Sb2S3 entrenched MWCNT composite as a low-cost Pt-free counter electrode for dye-sensitized solar cell and a viewpoint for a photo-powered energy system. <i>Electrochimica Acta</i> , 2021 , 390, 138864	6.7	3
298	Photocatalytic oxidation of ceftiofur sodium under UV-visible irradiation using plasmonic porous Ag-TiO2 nanospheres. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 105, 384-384	6.3	2
297	Graphene nanosheets supported high-defective Pd nanocrystals as an efficient electrocatalyst for hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021 , 425, 131526	14.7	3
296	Process Intensification Approach Using Microreactors for Synthesizing Nanomaterials-A Critical Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	15
295	Fabrication of metal-doped BiOI/MOF composite photocatalysts with enhanced photocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 5949-5962	6.7	17
294	Effect of 1-Substituted 2-(Pyridin-2-yl)-1-Benzo[<i>b</i>]imidazole Ligand-Coordinated Copper and Cobalt Complex Redox Electrolytes on Performance of Ru(II) Dye-Based Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2021 , 60, 1937-1947	5.1	16
293	Alternative low-cost photon sensitizer for dye-sensitized solar cells using less explored natural fabric dyes. <i>International Journal of Energy Research</i> , 2021 , 45, 7764-7782	4.5	0
292	Synthesis of random copolymer using Zig-Zag Naphthodithiophene for bulk Heterojunction polymer solar cell applications. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	2
291	Magnetically recyclable CoFeO/ZnO nanocatalysts for the efficient catalytic degradation of Acid Blue 113 under ambient conditions.. <i>RSC Advances</i> , 2020 , 10, 16473-16480	3.7	6
290	Microwave synthesis and analysis of Sb2S3 nanostructures as IR photon-absorber and counter electrode for the design of symmetric solar cells. <i>Materials Letters</i> , 2020 , 276, 128160	3.3	3
289	Density functional theory studies of structural distortion in lone pair substituted LuMnO3. <i>Materials Today Communications</i> , 2020 , 24, 101079	2.5	1
288	NiZnO nanocomposites assembled under various morphologies like columnar, nanochains, and granular structure for removal of pollutants. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123299	4.4	3
287	Fabrication of molybdenum oxycarbide nanoparticles dispersed on nitrogen-doped carbon hollow nanotubes through anion exchange mechanism for enhanced performance in supercapacitor. <i>Journal of Energy Storage</i> , 2020 , 27, 101122	7.8	3
286	The Design of ZnO Nanorod Arrays Coated with MnOx for High Electrochemical Stability of a Pseudocapacitor Electrode. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
285	Synthesis of Magnetite-Based Polymers as Mercury and Anion Sensors Using Single Electron Transfer-Living Radical Polymerization. <i>ACS Omega</i> , 2020 , 5, 7201-7210	3.9	3
284	Triazole appending ruthenium(II) polypyridine complex for selective sensing of phosphate anions through CH π -anion interaction and copper(II) ions via cancer cells. <i>New Journal of Chemistry</i> , 2020 , 44, 6186-6196	3.6	10
283	Pseudocapacitive performance of Mn3O4/BnO2 hybrid nanoparticles synthesized via ultrasonication approach. <i>Journal of Applied Electrochemistry</i> , 2020 , 50, 609-619	2.6	4

282	Sonochemical Synthesis of Copper-doped BiVO ₄ /g-CN Nanocomposite Materials for Photocatalytic Degradation of Bisphenol A under Simulated Sunlight Irradiation. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
281	Synthesis of shape-controlled Pd nanocrystals on carbon nanospheres and electrocatalytic oxidation performance for ethanol and ethylene glycol. <i>Applied Surface Science</i> , 2020 , 519, 146266	6.7	12
280	Ultrasound-assisted synthesis of unzipped multiwalled carbon nanotubes/titanium dioxide nanocomposite as a promising next-generation energy storage material. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105105	8.9	8
279	Synthesis of 3D marigold flower-like rGO/BN/Ni(OH) ₂ ternary nanocomposites for supercapacitor applications. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3090-3101	5.8	8
278	Phytogenic Synthesis of Nano Silver from Madagascar Periwinkle Extracts and Their Angiogenic Activities in Zebrafish Embryos (ZFE). <i>Nanoscience and Nanotechnology Letters</i> , 2020 , 12, 79-87	0.8	3
277	Heterogeneous sonocatalytic activation of peroxomonosulphate in the presence of CoFe ₂ O ₄ /TiO ₂ nanocatalysts for the degradation of Acid Blue 113 in an aqueous environment. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104024	6.8	9
276	Synthesis of a novel hybrid anode nanoarchitecture of Bi ₂ O ₃ /porous-RGO nanosheets for high-performance asymmetric supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 856, 113489	4.1	8
275	Synthesis of magnetite nanoparticles anchored cellulose and lignin-based carbon nanotube composites for rapid oil spill cleanup. <i>Materials Today Communications</i> , 2020 , 22, 100746	2.5	8
274	TiO ₂ /Graphene Quantum Dots core-shell based photo anodes with TTIP treatment- A perspective way of enhancing the short circuit current. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 205, 110239	6.4	13
273	N/Ti ³⁺ co-doping biphasic TiO ₂ /Bi ₂ WO ₆ heterojunctions: Hydrothermal fabrication and sonophotocatalytic degradation of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153172	5.7	37
272	Fluorine-free synthesis of reduced graphene oxide modified anatase TiO ₂ nanoflowers photoanode with highly exposed {0 0 1} facets for high performance dye-sensitized solar cell. <i>Solar Energy</i> , 2020 , 211, 1017-1026	6.8	10
271	The band bending effect of LiI/NaI treated TiO photoanodes on the performance of dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18183-18191	3.6	0
270	Facile synthesis of SnO ₂ nanoparticle intercalated unzipped multi-walled carbon nanotubes via an ultrasound-assisted route for symmetric supercapacitor devices. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5120-5131	5.8	2
269	Ultrasonic-Assisted Preparation Of Perovskite-Type Lanthanum Nickelate Nanostructures and Its Photocatalytic Properties. <i>ChemistrySelect</i> , 2020 , 5, 7947-7958	1.8	2
268	Guar gum-based polymer gel electrolyte for dye-sensitized solar cell applications. <i>Solar Energy</i> , 2020 , 208, 160-165	6.8	16
267	A ball-milling synthesis of N-graphyne with controllable nitrogen doping sites for efficient electrocatalytic oxygen evolution and supercapacitors. <i>Dalton Transactions</i> , 2020 , 49, 10958-10969	4.3	25
266	Ni ₃ S ₄ /CoS ₂ mixed-phase nanocomposite as counter electrode for Pt-free dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2020 , 478, 229068	8.9	16
265	Surfactant-assisted synthesis of copper oxide nanorods for the enhanced photocatalytic degradation of Reactive Black 5 dye in wastewater. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 17438-17445	5.1	8

264	Pseudocapacitive properties of nickel oxide nanoparticles synthesized via ultrasonication approach. <i>Ionics</i> , 2020 , 26, 953-960	2.7	7
263	A review on hybrid techniques for the degradation of organic pollutants in aqueous environment. <i>Ultrasonics Sonochemistry</i> , 2020 , 67, 105130	8.9	58
262	Simultaneous electrochemical determination of dopamine and epinephrine using gold nanocrystals capped with graphene quantum dots in a silica network. <i>Mikrochimica Acta</i> , 2019 , 186, 681	5.8	18
261	Stabilization of E-type antiferromagnetic ordering in La and Y substituted orthorhombic LuMnO ₃ : A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 125950-3	2.3	3
260	High Response CO Sensor Based on a Polyaniline/SnO ₂ Nanocomposite. <i>Polymers</i> , 2019 , 11,	4.5	28
259	Cathepsin D Degradable Dendrimer-MPEG-Histone 3-Enrofloxacin Conjugate Nanovehicle for Target Specific Bovine Mastitis Therapy. <i>International Journal of Peptide Research and Therapeutics</i> , 2019 , 25, 1451-1458	2.1	
258	Synthesis of MgTiO ₃ Nanoparticles for Photocatalytic Applications. <i>ChemistrySelect</i> , 2019 , 4, 788-796	1.8	11
257	A one-pot metal-free protocol for the synthesis of chalcogenated furans from 1,4-enediones and thiols. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 982-991	3.9	10
256	Synthesis of ZnTiO ₃ @TiO ₂ Heterostructure Nanomaterial as a Visible light Photocatalyst. <i>ChemistrySelect</i> , 2019 , 4, 6106-6112	1.8	3
255	Palladium/Copper Nanoalloy Supported on Carbon Nanotubes for the Electrooxidation of Methanol and Ethylene Glycol. <i>ChemistrySelect</i> , 2019 , 4, 6130-6139	1.8	5
254	A luminescent on-off probe based calix[4]arene linked through triazole with ruthenium(II) polypyridine complexes to sense copper(II) and sulfide ions. <i>New Journal of Chemistry</i> , 2019 , 43, 9832-9842	2.6	14
253	Facile synthesis of perovskite LaFeO ₃ ferroelectric nanostructures for heavy metal ion removal applications. <i>Materials Chemistry and Physics</i> , 2019 , 232, 200-204	4.4	13
252	In situ synthesis of MoO ₃ /Ag/TiO ₂ nanotube arrays for enhancement of visible-light photoelectrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9348-9358	6.7	21
251	Synthesis, characterization and adsorption properties of Cu ₂ V ₂ O ₇ nanoparticles. <i>Solid State Sciences</i> , 2019 , 92, 13-23	3.4	8
250	Low- and High-Index Faceted Pd Nanocrystals Embedded in Various Oxygen-Deficient WO ₃ Nanostructures for Electrocatalytic Oxidation of Alcohol (EOA) and Carbon Monoxide (CO). <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10028-10041	9.5	19
249	Ultrasound promoted transition metal doped polyaniline nanofibers: Enhanced electrode material for electrochemical energy storage applications. <i>Ultrasonics Sonochemistry</i> , 2019 , 51, 469-477	8.9	13
248	Energy Level Tuning of Novel Star-Shaped DDA-Based Metal-Free Organic Dyes for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21959-21968	3.8	12
247	An Expedient, Direct, Three-Component Approach for the Synthesis of 4-Thioarylpyrroles. <i>Synthesis</i> , 2019 , 51, 4023-4033	2.9	4

246	Improved charge collection and photo conversion of bacteriorhodopsin sensitized solar cells coupled with reduced graphene oxide decorated one-dimensional TiO ₂ nanorod hybrid photoanodes. <i>Electrochimica Acta</i> , 2019 , 319, 909-921	6.7	11
245	Contemporary Achievements of Visible Light-Driven Nanocatalysts for the Environmental Applications 2019 , 69-129		
244	Enhancing the power conversion efficiency of SrTiO ₃ /CdS/Bi ₂ S ₃ quantum dot based solar cell using phosphor. <i>Applied Surface Science</i> , 2019 , 494, 551-560	6.7	9
243	Synthetic Strategies of Nanobioconjugates for Bioelectrochemical Applications 2019 , 411-430		1
242	MoS ₂ coated CoS nanocomposites as counter electrodes in Pt-free dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25474-25483	3.6	17
241	Sonochemical reduction method for synthesis of TiO ₂ /Pd nanocomposites and investigation of anode and cathode catalyst for ethanol oxidation and oxygen reduction reaction in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30705-30718	6.7	7
240	Structurally modified bacteriorhodopsin as an efficient bio-sensitizer for solar cell applications. <i>European Biophysics Journal</i> , 2019 , 48, 61-71	1.9	3
239	Effect of phosphor on the efficiency of TiO ₂ /CdS/Ag ₂ S heterostructure based solar cells. <i>Materials Letters</i> , 2019 , 240, 291-294	3.3	13
238	Photocatalytic and photoelectrocatalytic performance of sonochemically synthesized CuO@TiO ₂ heterojunction nanocomposites. <i>Ultrasonics Sonochemistry</i> , 2019 , 51, 223-229	8.9	38
237	Bacteriorhodopsin-sensitized preferentially oriented one-dimensional TiO ₂ nanorod polymorphs as efficient photoanodes for high-performance bio-sensitized solar cells. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 189-208	3.3	2
236	MoS ₂ nanosheets based counter electrodes: An alternative for Pt-free dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2019 , 294, 134-141	6.7	29
235	The study of changes in raw meat salting using acoustically activated brine. <i>Ultrasonics Sonochemistry</i> , 2019 , 50, 224-229	8.9	11
234	Simple and low-cost synthesis of CuO nanosheets for visible-light-driven photocatalytic degradation of textile dyes. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2003-2010	6.8	25
233	Facile synthesis of copper oxide microflowers for nonenzymatic glucose sensor applications. <i>Materials Science in Semiconductor Processing</i> , 2018 , 82, 31-38	4.3	28
232	Tunable photovoltaic performance of preferentially oriented rutile TiO ₂ nanorod photoanode based dye sensitized solar cells with quasi-state electrolyte. <i>Nanotechnology</i> , 2018 , 29, 085605	3.4	3
231	Synthesis of Dandelion-like CuO microspheres for photocatalytic degradation of reactive black-5. <i>Materials Research Express</i> , 2018 , 5, 015053	1.7	3
230	Evidence of Bipolar Resistive Switching Memory in Perovskite Solar Cell. <i>IEEE Journal of the Electron Devices Society</i> , 2018 , 6, 454-463	2.3	11
229	Adsorption and photocatalytic properties of NiO nanoparticles synthesized via a thermal decomposition process. <i>Journal of Materials Research</i> , 2018 , 33, 601-610	2.5	51

228	A general microwave synthesis of metal (Ni, Cu, Zn) selenide nanoparticles and their competitive interaction with human serum albumin. <i>New Journal of Chemistry</i> , 2018 , 42, 5759-5766	3.6	7
227	Photocatalytic properties of hierarchical CuO nanosheets synthesized by a solution phase method. <i>Journal of Environmental Sciences</i> , 2018 , 69, 115-124	6.4	28
226	A simple approach for the sonochemical synthesis of FeO-guargum nanocomposite and its catalytic reduction of p-nitroaniline. <i>Ultrasonics Sonochemistry</i> , 2018 , 40, 1-10	8.9	37
225	Sonochemical fabrication of reduced graphene oxide supported Au nano dendrites for ethanol electrooxidation in alkaline medium. <i>Catalysis Today</i> , 2018 , 307, 308-317	5.3	17
224	Sonochemical synthesis of CoSnO nanocubes for supercapacitor applications. <i>Ultrasonics Sonochemistry</i> , 2018 , 41, 435-440	8.9	19
223	One-step hydrothermal synthesis of N/Ti co-doping multiphasic TiO/BiOBr heterojunctions towards enhanced sonocatalytic performance. <i>Ultrasonics Sonochemistry</i> , 2018 , 49, 69-78	8.9	36
222	Solvothermal synthesis of CuS/Cu(OH) ₂ nanocomposite electrode materials for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 16853-16863	2.1	16
221	Phase-controlled synthesis of bismuth oxide polymorphs for photocatalytic applications. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1664-1673	7.8	33
220	Donor-acceptor substituted thiophene dyes for enhanced nonlinear optical limiting. <i>Optical Materials</i> , 2018 , 85, 18-25	3.3	27
219	Ultras-small Plasmonic Nanoparticles Decorated Hierarchical Mesoporous TiO as an Efficient Photocatalyst for Photocatalytic Degradation of Textile Dyes. <i>ACS Omega</i> , 2018 , 3, 9834-9845	3.9	21
218	Introduction to Advanced Nanomaterials 2018 , 1-53		10
217	A multispectroscopic and molecular docking investigation of the binding interaction between serum albumins and acid orange dye. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 192, 34-40	4.4	18
216	Synthesis of N-doped potassium tantalate perovskite material for environmental applications. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 647-655	3.3	28
215	Green synthesis of porous Au _n -TiO ₂ nanospheres for solar light induced photocatalytic degradation of diazo and triazo dyes and their eco-toxic effects. <i>New Journal of Chemistry</i> , 2018 , 42, 18717-18728	3.6	7
214	Photocatalytic Degradation of Congo Red Using PbTiO ₃ Nanorods Synthesized via a Sonochemical Approach. <i>ChemistrySelect</i> , 2018 , 3, 11851-11858	1.8	12
213	Hierarchical CuO microstructures synthesis for visible light driven photocatalytic degradation of Reactive Black-5 dye. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6059-6068	6.8	12
212	Metal- and Solvent-Free Phosphine Mediated Synthesis of Multisubstituted Furans via Intramolecular Annulation of 1, 4-Enediones. <i>ChemistrySelect</i> , 2018 , 3, 11606-11609	1.8	1
211	Cosensitization Strategies for Dye-Sensitized Solar Cells 2018 , 15-60		

210	A Simple Discriminating p-tert-Butylcalix[4]arene Thiospirolactam Rhodamine B Based Colorimetric and Fluorescence Sensor for Mercury Ion and Live Cell Imaging Applications. <i>ChemistrySelect</i> , 2018 , 3, 4413-4420	1.8	4
209	Facile ultrasound assisted synthesis of monodisperse spherical CuMn(OH) 3 NO 3 nanoparticles for energy storage applications. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 745-750	5.7	9
208	Pyrene based D- π A architectures: synthesis, density functional theory, photophysics and electron transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3125-3135	3.6	24
207	Magnetic and catalytic properties of inverse spinel CuFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 437-443	2.8	45
206	Electrochemical Doping as a Way to Enhance Water Photooxidation on Nanostructured Nickel Titanate and Anatase Electrodes. <i>ChemElectroChem</i> , 2017 , 4, 1429-1435	4.3	3
205	High-efficiency dye-sensitized solar cells fabricated using D-D- π A (donor-donor/ π spacer-acceptor) architecture. <i>Solar Energy</i> , 2017 , 146, 150-160	6.8	27
204	Contributions of Nanotechnology to Hydrogen Production 2017 , 597-628		
203	Thiourea incorporated poly(ethylene oxide) as transparent gel polymer electrolyte for dye sensitized solar cell applications. <i>Journal of Power Sources</i> , 2017 , 353, 245-253	8.9	26
202	Crumpled Cu ₂ O-g-C ₃ N ₄ nanosheets for hydrogen evolution catalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 527, 34-41	5.1	35
201	Enhancing the Efficiency of DSSCs by the Modification of TiO ₂ Photoanodes using N, F and S, co-doped Graphene Quantum Dots. <i>Electrochimica Acta</i> , 2017 , 242, 337-343	6.7	59
200	Sonochemical synthesis of silver nanoparticles anchored reduced graphene oxide nanosheets for selective and sensitive detection of glutathione. <i>Ultrasonics Sonochemistry</i> , 2017 , 39, 363-373	8.9	42
199	Synthesis of Reduced Graphene Oxide Supported Flower-like Bismuth Subcarbonates Microsphere (Bi ₂ O ₃ -RGO) for Supercapacitor Application. <i>Electrochimica Acta</i> , 2017 , 244, 209-221	6.7	25
198	Sonochemical Synthesis of PdAg/RGO Nanocomposite as an Efficient Electrocatalyst for Both Ethanol Oxidation and Oxygen Reduction Reaction with High CO Tolerance. <i>Electrocatalysis</i> , 2017 , 8, 430-441	2.7	15
197	Reduced graphene oxide embedded titanium dioxide nanocomposite as novel photoanode material in natural dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 13678-13689	2.1	10
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