

Jayaraman Theerthagiri

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.

86
papers

3,039
citations

30
h-index

53
g-index

90
ext. papers

4,040
ext. citations

5.9
avg, IF

6.04
L-index

#	Paper	IF	Citations
86	Reconciling of experimental and theoretical insights on the electroactive behavior of C/Ni nanoparticles with AuPt alloys for hydrogen evolution efficiency and Non-enzymatic sensor. <i>Chemical Engineering Journal</i> , 2022 , 435, 134790	14.7	6
85	Fabrication of Pd/MnFe ₂ O ₄ bifunctional 2-D nanosheets to enhance the yield of HCOOH from CO ₂ cathodic reduction paired with anodic oxidation to CH ₃ OH. <i>Fuel</i> , 2022 , 311, 122619	7.1	3
84	Nanogap-tailored Au nanoparticles fabricated by pulsed laser ablation for surface-enhanced Raman scattering. <i>Biosensors and Bioelectronics</i> , 2022 , 197, 113766	11.8	5
83	Silane-treated BaTiO ceramic powders for multilayer ceramic capacitor with enhanced dielectric properties. <i>Chemosphere</i> , 2022 , 286, 131734	8.4	1
82	Multiscale design of 3D metal-organic frameworks (MOF, M: Cu, Co, Ni) via PLAL enabling bifunctional electrocatalysts for robust overall water splitting. <i>Chemical Engineering Journal</i> , 2022 , 446, 137045	14.7	6
81	Improved visible light photocatalytic degradation of yttrium doped NiMgAl layered triple hydroxides for the effective removal of methylene blue dye.. <i>Chemosphere</i> , 2021 , 290, 133299	8.4	2
80	Integrated technique of pulsed laser irradiation and sonochemical processes for the production of highly surface-active NiPd spheres. <i>Chemical Engineering Journal</i> , 2021 , 411, 128486	14.7	52
79	Surface functionalized highly porous date seed derived activated carbon and MoS nanocomposites for hydrogenation of CO into formic acid. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124980	12.8	18
78	Bifunctional electrocatalysts for water splitting from a bimetallic (V doped-Ni _x Fe _y) Metal-organic framework MOF@Graphene oxide composite. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	8
77	Application of advanced materials in sonophotocatalytic processes for the remediation of environmental pollutants. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125245	12.8	88
76	Solvent-mediated synthesis of BiOI with a tunable surface structure for effective visible light active photocatalytic removal of Cr(VI) from wastewater. <i>Environmental Research</i> , 2021 , 197, 111080	7.9	23
75	Facile one-pot synthesis of CuCN by pulsed laser ablation in nitrile solvents and mechanistic studies using quantum chemical calculations. <i>Scientific Reports</i> , 2021 , 11, 14389	4.9	3
74	Production of copper nanoparticles exhibiting various morphologies via pulsed laser ablation in different solvents and their catalytic activity for reduction of toxic nitroaromatic compounds. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124412	12.8	20
73	Enhanced photocatalytic activity at multidimensional interface of 1D-BiS@2D-GO/3D-BiOI ternary nanocomposites for tetracycline degradation under visible-light. <i>Journal of Hazardous Materials</i> , 2021 , 404, 123868	12.8	36
72	ZIF-8 templated assembly of La-anchored ZnO distorted nano-hexagons as an efficient active photocatalyst for the detoxification of rhodamine B in water. <i>Environmental Pollution</i> , 2021 , 272, 116018	8.3	17
71	Kinetics and degradation of camphene with OH radicals and its subsequent fate under the atmospheric O and NO radicals - A theoretical study. <i>Chemosphere</i> , 2021 , 267, 129250	8.4	4
70	A facile one-step hydrothermal synthesis of Ni _{1-x} CoxS as active electrode material in non-aqueous electrolyte for supercapacitors application. <i>Materials Today: Proceedings</i> , 2021 , 47, 1065-1071	1.4	

69	One-step synthesis of hierarchical structured nickel copper sulfide nanorods with improved electrochemical supercapacitor properties. <i>International Journal of Energy Research</i> , 2021 , 45, 9983-9998	4.5	8
68	Anthracene-based fluorescent probe: Synthesis, characterization, aggregation-induced emission, mechanochromism, and sensing of nitroaromatics in aqueous media. <i>Environmental Research</i> , 2021 , 194, 110741	7.9	24
67	Synthesis of TiO ₂ /RGO with plasmonic Ag nanoparticles for highly efficient photoelectrocatalytic reduction of CO to methanol toward the removal of an organic pollutant from the atmosphere. <i>Environmental Pollution</i> , 2021 , 281, 116990	9.3	32
66	Modeling and optimization of process parameters of biofilm reactor for wastewater treatment. <i>Science of the Total Environment</i> , 2021 , 787, 147624	10.2	6
65	Rapid and highly selective electrochemical sensor based on ZnS/Au-decorated F-multi-walled carbon nanotube nanocomposites produced via pulsed laser technique for detection of toxic nitro compounds. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126269	12.8	43
64	Fabrication strategies and surface tuning of hierarchical gold nanostructures for electrochemical detection and removal of toxic pollutants. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126648	12.8	22
63	Lignin-mediated green synthesis of functionalized gold nanoparticles via pulsed laser technique for selective colorimetric detection of lead ions in aqueous media. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126585	12.8	22
62	In-situ thermal phase transition and structural investigation of ferroelectric tetragonal barium titanate nanopowders with pseudo-cubic phase. <i>Chemosphere</i> , 2021 , 283, 131218	8.4	3
61	Method development and mechanistic study on direct pulsed laser irradiation process for highly effective dechlorination of persistent organic pollutants. <i>Environmental Pollution</i> , 2021 , 291, 118158	9.3	1
60	Basic principles in energy conversion and storage 2020 , 1-14		
59	Nickel hexacyanoferrate film coated pencil graphite electrode as sensor and electrode material for environment and energy applications. <i>International Journal of Energy Research</i> , 2020 , 44, 10206-10221	4.5	9
58	Nanofiber NiMoO ₄ /g-CN Composite Electrode Materials for Redox Supercapacitor Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	32
57	Sonoelectrochemistry for energy and environmental applications. <i>Ultrasonics Sonochemistry</i> , 2020 , 63, 104960	8.9	95
56	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. <i>Polymers</i> , 2020 , 12,	4.5	61
55	Synthesis of hierarchical structured rare earth metal doped Co ₃ O ₄ by polymer combustion method for high performance electrochemical supercapacitor electrode materials. <i>Ionics</i> , 2020 , 26, 2051-2061	2.7	27
54	Cost-Effective Synthesis of Efficient CoWO ₄ /Ni Nanocomposite Electrode Material for Supercapacitor Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
53	Synthesis of a hierarchically structured Fe ₃ O ₄ @PEI nanocomposite for the highly sensitive electrochemical determination of bisphenol A in real samples. <i>New Journal of Chemistry</i> , 2020 , 44, 18633-18645	3.6	34
52	Hybrid Advanced Oxidation Processes Involving Ultrasound: An Overview. <i>Molecules</i> , 2019 , 24,	4.8	45

51	A review on ZnO nanostructured materials: energy, environmental and biological applications. <i>Nanotechnology</i> , 2019 , 30, 392001	3.4	215
50	Photocatalytic Degradation of Rhodamine B Dye Using Biogenic Hybrid ZnO-MgO Nanocomposites under Visible Light. <i>ChemistrySelect</i> , 2019 , 4, 5178-5184	1.8	15
49	Robust bifunctional catalytic activities of N-doped carbon aerogel-nickel composites for electrocatalytic hydrogen evolution and hydrogenation of nitrocompounds. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13334-13344	6.7	29
48	Synthesis and characterization of ZnO nanoflakes anchored carbon nanoplates for antioxidant and anticancer activity in MCF7 cell lines. <i>Materials Science and Engineering C</i> , 2019 , 102, 536-540	8.3	22
47	Influence of chromium content on microstructural and electrochemical supercapacitive properties of vanadium nitride thin films developed by reactive magnetron co-sputtering process. <i>Ceramics International</i> , 2019 , 45, 12643-12653	5.1	17
46	A simple, economical, and quick electrochemical deposition of rare-earth metal ion doped ZnSe/FeS ₂ double-layer thin films with enhanced photoelectrochemical performance. <i>Ionics</i> , 2019 , 25, 6115-6122	2.7	2
45	Graphitic Carbon Nitride-Based Nanostructured Materials for Photocatalytic Applications 2019 , 291-307		2
44	Single-step electrochemical deposition of Mn ²⁺ doped FeS ₂ thin films on ITO conducting glass substrates: physical, electrochemical and electrocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3268-3276	2.1	6
43	Highly Electroactive Ni Pyrophosphate/Pt Catalyst toward Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4969-4982	9.5	64
42	Microstructural and supercapacitive properties of reactive magnetron co-sputtered Mo ₃ N ₂ electrodes: Effects of Cu doping. <i>Materials Letters</i> , 2018 , 220, 201-204	3.3	11
41	Facile synthesis of Fe ₂ O ₃ /WO ₃ composite with an enhanced photocatalytic and photo-electrochemical performance. <i>Ionics</i> , 2018 , 24, 3673-3684	2.7	43
40	Physicochemical and electrochemical properties of Gd ³⁺ -doped ZnSe thin films fabricated by single-step electrochemical deposition process. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1197-1207	2.6	24
39	Comparative study of structural, optical and electrical properties of electrochemically deposited Eu, Sm and Gd doped ZnSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 5638-5648	2.1	18
38	Electrodeposited Co _{1-x} MoxS thin films as highly efficient electrocatalysts for hydrogen evolution reaction in acid medium. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2641-2647	2.6	9
37	Highly Water Dispersible Polymer Acid-Doped Polyanilines as Low-Cost, Nafion-Free Ionomers for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1512-1521	6.1	12
36	Synthesis of Ni ₃ V ₂ O ₈ @graphene oxide nanocomposite as an efficient electrode material for supercapacitor applications. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 527-536	2.6	65
35	Electrodeposited carbon-supported nickel sulfide thin films with enhanced stability in acid medium as hydrogen evolution reaction electrocatalyst. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 365-374	2.6	17
34	Recent advances in 2-D nanostructured metal nitrides, carbides, and phosphides electrodes for electrochemical supercapacitors [A brief review]. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 67, 12-27	6.3	78

33	Recent Advances in Metal Chalcogenides (MX ₂ , = ,) Nanostructures for Electrochemical Supercapacitor Applications: A Brief Review. <i>Nanomaterials</i> , 2018 , 8,	5.4	148
32	Effect of Polyurea Coating on Corrosion Resistance Over Mild Steel and Aluminium Substrates for Liquid Storage Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2018 , 670, 60-73	0.5	11
31	Insights on Tafel Constant in the Analysis of Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23943-23949	3.8	48
30	Pt Electrocatalysts for I-Mediated Dye-Sensitized Solar Cells 2018 , 27-46		
29	Synthesis of Hierarchical Cobalt Phosphate Nanoflakes and Their Enhanced Electrochemical Performances for Supercapacitor Applications. <i>ChemistrySelect</i> , 2017 , 2, 201-210	1.8	75
28	Solution Combustion Synthesis of Hierarchically Structured V ₂ O ₅ Nanoflakes: Efficacy Against Plasmodium falciparum, Plasmodium berghei and the Malaria Vector Anopheles stephensi. <i>Journal of Cluster Science</i> , 2017 , 28, 2337-2348	3	6
27	Recent advances in MoS ₂ nanostructured materials for energy and environmental applications [A review]. <i>Journal of Solid State Chemistry</i> , 2017 , 252, 43-71	3.3	171
26	Growth of iron diselenide nanorods on graphene oxide nanosheets as advanced electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13020-13030	6.7	62
25	Optical, magnetic, and photoelectrochemical properties of electrochemically deposited Eu ³⁺ -doped ZnSe thin films. <i>Ionics</i> , 2017 , 23, 2497-2507	2.7	17
24	Electrochemical deposition of carbon materials incorporated nickel sulfide composite as counter electrode for dye-sensitized solar cells. <i>Ionics</i> , 2017 , 23, 1017-1025	2.7	22
23	Highly active MoS ₂ /carbon electrocatalysts for the hydrogen evolution reaction - insight into the effect of the internal resistance and roughness factor on the Tafel slope. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1988-1998	3.6	80
22	Simple and low cost electrode material based on Ca ₂ V ₂ O ₇ /PANI nanoplatelets for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 17354-17362	2.1	16
21	Tungsten doped titanium dioxide as a photoanode for dye sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3428-3439	2.1	8
20	Synthesis of various carbon incorporated flower-like MoS ₂ microspheres as counter electrode for dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 581-590	2.6	33
19	Flower-Like Copper Sulfide Nanocrystals are Highly Effective Against Chloroquine-Resistant Plasmodium falciparum and the Malaria Vector Anopheles stephensi. <i>Journal of Cluster Science</i> , 2017 , 28, 581-594	3	7
18	Influence of pyrazole on the photovoltaic performance of dye-sensitized solar cell with polyvinylidene fluoride polymer electrolytes. <i>Ionics</i> , 2016 , 22, 425-433	2.7	13
17	One-step electrochemical deposition of Ni _{1-x} MoxS ternary sulfides as an efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16119-16127	13	65
16	Investigations on acceptor (Pr ³⁺) and donor (Nb ⁵⁺) doped cerium oxide for the suitability of solid oxide fuel cell electrolytes. <i>Ionics</i> , 2016 , 22, 2461-2470	2.7	12

15	Enhanced performance of dye-sensitized solar cell using 2-mercaptobenzothiazole-doped poly(vinylidene fluoride-co-hexafluoropropylene) polymer electrolyte. <i>Ionics</i> , 2016 , 22, 1225-1230	2.7	10
14	Synthesis and characterization of (Ni _{1-x} Cox)Se ₂ based ternary selenides as electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , 2016 , 238, 113-120	3.3	54
13	High performance dye-sensitized solar cell based on 2-mercaptobenzimidazole doped poly(vinylidene fluoride-co-hexafluoropropylene) based polymer electrolyte. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016 , 53, 245-251	2.2	13
12	Carbon nanohorns functionalized PEDOT:PSS nanocomposites for dye sensitized solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 4050-4056	2.1	7
11	Cubic fluorite phase of samarium doped cerium oxide (CeO ₂) _{0.96} Sm _{0.04} for solid oxide fuel cell electrolyte. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1566-1573	2.1	29
10	Enhanced electrochemical behavior of ceria based zirconia electrolytes for intermediate temperature solid oxide fuel cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 10980-10992	2.1	7
9	Dye-sensitized solar cell using 4-chloro-7-nitrobenzofurazan incorporated polyvinyl alcohol polymer electrolyte. <i>Indian Journal of Physics</i> , 2016 , 90, 1265-1270	1.4	5
8	Recent Progress in Non-Platinum Counter Electrode Materials for Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , 2015 , 2, 928-945	4.3	125
7	Studies of solvent effect on the conductivity of 2-mercaptopyridine-doped solid polymer blend electrolytes and its application in dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	27
6	Synthesis of a visible-light active V ₂ O ₅ -C ₃ N ₄ heterojunction as an efficient photocatalytic and photoelectrochemical material. <i>New Journal of Chemistry</i> , 2015 , 39, 1367-1374	3.6	152
5	Cu ₂ S-incorporated ZnS nanocomposites for photocatalytic hydrogen evolution. <i>RSC Advances</i> , 2015 , 5, 30175-30186	3.7	49
4	Effect of tetrabutylammonium iodide content on PVDF-PMMA polymer blend electrolytes for dye-sensitized solar cells. <i>Ionics</i> , 2015 , 21, 2889-2896	2.7	56
3	Synthesis and characterization of a CuS/WO ₃ composite photocatalyst for enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 52718-52725	3.7	109
2	Photocatalytic and photoelectrochemical studies of visible-light active Fe ₂ O ₃ -C ₃ N ₄ nanocomposites. <i>RSC Advances</i> , 2014 , 4, 38222-38229	3.7	177
1	Design and Fabrication of Carbon-based Nanostructured Counter Electrode Materials for Dye-sensitized Solar Cells 193-219		2