

# Thandavarayan Maiyalagan

## List of Publications by Citations

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#	Paper	IF	Citations
216	Review on Recent Progress in Nitrogen-Doped Graphene: Synthesis, Characterization, and Its Potential Applications. <i>ACS Catalysis</i> , <b>2012</b> , 2, 781-794	13.1	2727
215	Spinel-type lithium cobalt oxide as a bifunctional electrocatalyst for the oxygen evolution and oxygen reduction reactions. <i>Nature Communications</i> , <b>2014</b> , 5, 3949	17.4	488
214	A review on ZnO nanostructured materials: energy, environmental and biological applications. <i>Nanotechnology</i> , <b>2019</b> , 30, 392001	3.4	215
213	Electrodeposited Pt on three-dimensional interconnected graphene as a free-standing electrode for fuel cell application. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5286		189
212	Nanostructured conducting polymers for energy applications: towards a sustainable platform. <i>Nanoscale</i> , <b>2016</b> , 8, 6921-47	7.7	173
211	Nitrogen containing carbon nanotubes as supports for Pt $\square$ Alternate anodes for fuel cell applications. <i>Electrochemistry Communications</i> , <b>2005</b> , 7, 905-912	5.1	167
210	Performance of carbon nanofiber supported PdNi catalysts for electro-oxidation of ethanol in alkaline medium. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 5246-5251	8.9	163
209	Cobalt oxide-coated N- and B-doped graphene hollow spheres as bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5877-5889	13	129
208	Recent Progress in Non-Platinum Counter Electrode Materials for Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , <b>2015</b> , 2, 928-945	4.3	125
207	Recent developments of metal oxide based heterostructures for photocatalytic applications towards environmental remediation. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 267, 35-52	3.3	120
206	Highly Stable PtRu Nanoparticles Supported on Three-Dimensional Cubic Ordered Mesoporous Carbon (PtRu/CMK-8) as Promising Electrocatalysts for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 2630-2638	3.8	114
205	Recent Progress in Ruthenium Oxide-Based Composites for Supercapacitor Applications. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4343-4372	4.3	95
204	FeCo Alloy Nanoparticles Coated by an Ultrathin N-Doped Carbon Layer and Encapsulated in Carbon Nanotubes as a Highly Efficient Bifunctional Air Electrode for Rechargeable Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8530-8541	8.3	90
203	Silicotungstic acid stabilized PtRu nanoparticles supported on carbon nanofibers electrodes for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2874-2879	6.7	87
202	Catalytic activity of platinum/tungsten oxide nanorod electrodes towards electro-oxidation of methanol. <i>Journal of Power Sources</i> , <b>2008</b> , 175, 789-793	8.9	86
201	Synthesis and electro-catalytic activity of methanol oxidation on nitrogen containing carbon nanotubes supported Pt electrodes. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 80, 286-295	21.8	86
200	Recent advances in 2-D nanostructured metal nitrides, carbides, and phosphides electrodes for electrochemical supercapacitors $\square$ A brief review. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 67, 12-27	6.3	78

199	Electrochemical oxidation of methanol on Pt/V <sub>2</sub> O <sub>5</sub> composite catalysts. <i>Catalysis Communications</i> , <b>2009</b> , 10, 433-436	3.2	75
198	Template synthesis and characterization of well-aligned nitrogen containing carbon nanotubes. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 93, 291-295	4.4	74
197	Hierarchical 3-dimensional nickel-iron nanosheet arrays on carbon fiber paper as a novel electrode for non-enzymatic glucose sensing. <i>Nanoscale</i> , <b>2016</b> , 8, 843-55	7.7	72
196	Nanocomposites of Zr(IV)-Based Metal-Organic Frameworks and Reduced Graphene Oxide for Electrochemically Sensing Ciprofloxacin in Water. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2367-2376	5.6	69
195	Microwave-assisted synthesis of porous Mn <sub>2</sub> O <sub>3</sub> nanoballs as bifunctional electrocatalyst for oxygen reduction and evolution reaction. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1417-1429	5.5	65
194	Rational design of ZnFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite for enhanced photo-Fenton reaction and supercapacitor performance. <i>Applied Surface Science</i> , <b>2019</b> , 498, 143807	6.7	62
193	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. <i>Polymers</i> , <b>2020</b> , 12,	4.5	61
192	Electrochemical analysis of Graphene Oxide/Polyaniline/Polyvinyl alcohol composite nanofibers for supercapacitor applications. <i>Applied Surface Science</i> , <b>2018</b> , 449, 551-557	6.7	61
191	Solvent-free syntheses of some quinazolin-4(3H)-ones derivatives. <i>Canadian Journal of Chemistry</i> , <b>2008</b> , 86, 1019-1025	0.9	60
190	Corrosion and Alloy Engineering in Rational Design of High Current Density Electrodes for Efficient Water Splitting. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904020	21.8	56
189	Fabrication of MoS <sub>2</sub> /WSe <sub>2</sub> heterostructures as electrocatalyst for enhanced hydrogen evolution reaction. <i>Applied Surface Science</i> , <b>2019</b> , 480, 611-620	6.7	53
188	Highly active Pd and Pd/Au nanoparticles supported on functionalized graphene nanoplatelets for enhanced formic acid oxidation. <i>RSC Advances</i> , <b>2014</b> , 4, 4028-4033	3.7	53
187	Pt/Au nanoparticles supported PAMAM dendrimer functionalized carbon nanofiber composite catalysts and their application to methanol oxidation. <i>Journal of Solid State Electrochemistry</i> , <b>2009</b> , 13, 1561-1566	2.6	53
186	Electrochemical synthesis, characterization and electro-oxidation of methanol on platinum nanoparticles supported poly(o-phenylenediamine) nanotubes. <i>Journal of Power Sources</i> , <b>2008</b> , 179, 443-450	8.9	53
185	Three-dimensional cubic ordered mesoporous carbon (CMK-8) as highly efficient stable Pd electro-catalyst support for formic acid oxidation. <i>Journal of Power Sources</i> , <b>2012</b> , 211, 147-153	8.9	52
184	Dye-sensitized solar cell (DSSC) coated with energy down shift layer of nitrogen-doped carbon quantum dots (N-CQDs) for enhanced current density and stability. <i>Applied Surface Science</i> , <b>2019</b> , 483, 425-431	6.7	50
183	Role of the Morphology and Surface Planes on the Catalytic Activity of Spinel LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2014</b> , 4, 421-425	13.1	50
182	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 4655-4666	7.3	50

181	Synthesis of a carbon-coated NiO/MgO core/shell nanocomposite as a Pd electro-catalyst support for ethanol oxidation. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 128, 341-347	4.4	50
180	Exploration of the Active Center Structure of Nitrogen-Doped Graphene for Control over the Growth of Co <sub>3</sub> O <sub>4</sub> for a High-Performance Supercapacitor. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 143-153	6.1	50
179	Rechargeable Zinc-Ion Battery Based on Choline Chloride-Urea Deep Eutectic Solvent. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1063-A1069	3.9	48
178	N-Doped Carbon Nanotubes Derived from Graphene Oxide with Embedment of FeCo Nanoparticles as Bifunctional Air Electrode for Rechargeable Liquid and Flexible All-Solid-State Zinc-Air Batteries. <i>Advanced Science</i> , <b>2021</b> , 8, 2004572	13.6	48
177	Highly active graphene-supported palladium-nickel alloy nanoparticles for catalytic reduction of 4-nitrophenol. <i>Applied Surface Science</i> , <b>2018</b> , 449, 764-771	6.7	47
176	Synthesis, characterization and electrocatalytic activity of silver nanorods towards the reduction of benzyl chloride. <i>Applied Catalysis A: General</i> , <b>2008</b> , 340, 191-195	5.1	46
175	Nanostructured Fe <sub>2</sub> O <sub>3</sub> platform for the electrochemical sensing of folic acid. <i>Analyst, The</i> , <b>2013</b> , 138, 1779-86	5	44
174	Highly sensitive determination of non-steroidal anti-inflammatory drug nimesulide using electrochemically reduced graphene oxide nanoribbons. <i>RSC Advances</i> , <b>2017</b> , 7, 33043-33051	3.7	44
173	One-pot synthesis of chain-like palladium nanocubes and their enhanced electrocatalytic activity for fuel-cell applications. <i>Nano Energy</i> , <b>2013</b> , 2, 677-687	17.1	43
172	Performance of Solid-state Hybrid Energy-storage Device using Reduced Graphene-oxide Anchored Sol-gel Derived Ni/NiO Nanocomposite. <i>Scientific Reports</i> , <b>2017</b> , 7, 15342	4.9	43
171	Electro-oxidation of methanol on TiO <sub>2</sub> nanotube supported platinum electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2067-71	1.3	43
170	Reduced graphene oxide supported hierarchical flower like manganese oxide as efficient electrocatalysts toward reduction and evolution of oxygen. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 4111-4122	6.7	41
169	A review on carbon and non-precious metal based cathode catalysts in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 3056-3089	6.7	41
168	Photocatalytic degradation of 2,4-dichlorophenoxyacetic acid - A comparative study in hydrothermal TiO <sub>2</sub> and commercial TiO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2018</b> , 449, 371-379	6.7	40
167	Electrochemically Sensing of Trichloroacetic Acid with Iron(II) Phthalocyanine and Zn-Based Metal Organic Framework Nanocomposites. <i>ACS Sensors</i> , <b>2019</b> , 4, 1934-1941	9.2	38
166	Morphology and phase tuning of Fe and MnO <sub>2</sub> nanocacti evolved at varying modes of acid count for their well-coordinated energy storage and visible-light-driven photocatalytic behaviour. <i>RSC Advances</i> , <b>2017</b> , 7, 25041-25053	3.7	37
165	Phosphorus Doped MoS <sub>2</sub> Nanosheet Promoted with Nitrogen, Sulfur Dual Doped Reduced Graphene Oxide as an Effective Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6184-6194	6.1	36
164	Tailoring the thickness of MoSe <sub>2</sub> layer of the hierarchical double-shelled N-doped carbon@MoSe <sub>2</sub> hollow nanoboxes for efficient and stable hydrogen evolution reaction. <i>Journal of Catalysis</i> , <b>2020</b> , 381, 363-373	7.3	35

163	Microwave-assisted synthesis of europium(III) oxide decorated reduced graphene oxide nanocomposite for detection of chloramphenicol in food samples. <i>Composites Part B: Engineering</i> , <b>2019</b> , 161, 29-36	10	35
162	Molecular-MN <sub>4</sub> vs atomically dispersed MN <sub>4</sub> C electrocatalysts for oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 446, 214122	23.2	35
161	Novel sonochemical synthesis of FeO nanospheres decorated on highly active reduced graphene oxide nanosheets for sensitive detection of uric acid in biological samples. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104618	8.9	34
160	Facile and rapid synthesis of Pd nanodendrites for electrocatalysis and surface-enhanced Raman scattering applications. <i>Nanoscale</i> , <b>2014</b> , 6, 11169-76	7.7	34
159	Highly interconnected porous TiO <sub>2</sub> -Ni-MOF composite aerogel photoanodes for high power conversion efficiency in quasi-solid dye-sensitized solar cells. <i>Applied Surface Science</i> , <b>2019</b> , 496, 143646	6.7	33
158	Metal-organic framework derived NiMo polyhedron as an efficient hydrogen evolution reaction electrocatalyst. <i>Applied Surface Science</i> , <b>2019</b> , 478, 916-923	6.7	32
157	Components for PEM Fuel Cells: An Overview. <i>Materials Science Forum</i> , <b>2010</b> , 657, 143-189	0.4	31
156	Highly active 3-dimensional cobalt oxide nanostructures on the flexible carbon substrates for enzymeless glucose sensing. <i>Analyst, The</i> , <b>2017</b> , 142, 4299-4307	5	30
155	Enhanced Electro-catalytic Activity of Nitrogen-doped Reduced Graphene Oxide Supported PdCu Nanoparticles for Formic Acid Electro-oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 14808-14819	6.7	30
154	Self-assembled nitrogen-doped graphene quantum dots (N-GQDs) over graphene sheets for superb electro-photocatalytic activity. <i>Applied Surface Science</i> , <b>2019</b> , 480, 1035-1046	6.7	30
153	Enhanced pseudocapacitance from finely ordered pristine MnO <sub>2</sub> nanorods at favourably high current density using redox additive. <i>Applied Surface Science</i> , <b>2018</b> , 449, 492-499	6.7	30
152	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> , <b>2019</b> , 44, 13334-13344	6.7	29
151	Hydrothermal synthesis and characterization studies of Fe <sub>2</sub> O <sub>3</sub> /MnO <sub>2</sub> nanocomposites for energy storage supercapacitor application. <i>Ceramics International</i> , <b>2020</b> , 46, 6222-6233	5.1	29
150	Superior supercapacitance behavior of oxygen self-doped carbon nanospheres: a conversion of Allium cepa peel to energy storage system. <i>Biomass Conversion and Biorefinery</i> , <b>2019</b> , 11, 1311	2.3	28
149	Cobalt Oxide Porous Nanocubes-Based Electrochemical Immunobiosensing of Hepatitis B Virus DNA in Blood Serum and Urine Samples. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5824-5833	7.8	27
148	Recent Trends in Bimetallic Oxides and Their Composites as Electrode Materials for Supercapacitor Applications. <i>ChemElectroChem</i> , <b>2021</b> , 8, 1723-1746	4.3	27
147	Electrochemical Energy Storage Properties of Ni-Mn-Oxide Electrodes for Advance Asymmetric Supercapacitor Application. <i>Langmuir</i> , <b>2019</b> , 35, 8257-8267	4	26
146	Enhanced electrochemical performance of MnO <sub>2</sub> /NiO nanocomposite for supercapacitor electrode with excellent cycling stability. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 5222-5232	2.1	25

145	Carbon dots and Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> adhered on TiO <sub>2</sub> nanoparticles: Impressively boosted photocatalytic efficiency for removal of pollutants under visible light. <i>Separation and Purification Technology</i> , <b>2020</b> , 250, 117179	8.3	25
144	Influence of phosphorus on the electrocatalytic activity of palladium nickel nanoalloy supported on N-doped reduced graphene oxide for ethanol oxidation reaction. <i>Electrochimica Acta</i> , <b>2020</b> , 342, 136028	6.7	25
143	Physicochemical and electrochemical properties of Gd <sup>3+</sup> -doped ZnSe thin films fabricated by single-step electrochemical deposition process. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 1197-1207	2.6	24
142	Thiourea-Mediated Regioselective Synthesis of Symmetrical and Unsymmetrical Diversified Thioethers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 7866-7870	3.9	24
141	Numerical and experimental investigation on 25 cm <sup>2</sup> and 100 cm <sup>2</sup> PEMFC with novel sinuous flow field for effective water removal and enhanced performance. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 7848-7862	6.7	24
140	Effect of various aqueous electrolytes on the electrochemical performance of MnO <sub>2</sub> nanorods as electrode materials for supercapacitor application. <i>Electrochimica Acta</i> , <b>2021</b> , 366, 137412	6.7	23
139	Influence of designed electrode surfaces on double layer capacitance in aqueous electrolyte: Insights from standard models. <i>Applied Surface Science</i> , <b>2018</b> , 449, 445-453	6.7	22
138	One-pot hydrothermal synthesis of CuCo <sub>2</sub> S <sub>4</sub> /RGO nanocomposites for visible-light photocatalytic applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 123, 242-253	3.9	22
137	Synthesis and Optimisation of IrO <sub>2</sub> Electrocatalysts by Adams Fusion Method for Solid Polymer Electrolyte Electrolysers. <i>Micro and Nanosystems</i> , <b>2012</b> , 4, 186-191	0.6	22
136	Adoption of novel porous inserts in the flow channel of pem fuel cell for the mitigation of cathodic flooding. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 7863-7872	6.7	22
135	Effect of hydroxyl (OH) group position in alcohol on performance, emission and combustion characteristics of SI engine. <i>Energy Conversion and Management</i> , <b>2019</b> , 189, 195-201	10.6	21
134	Electrochemical performances of LiNi <sub>1-x</sub> MnxPO <sub>4</sub> (x = 0.050.2) olivine cathode materials for high voltage rechargeable lithium ion batteries. <i>Applied Surface Science</i> , <b>2018</b> , 449, 435-444	6.7	21
133	One-step hydrothermal synthesis of CaWO <sub>4</sub> /Ag <sub>2</sub> WO <sub>4</sub> heterojunction: An efficient photocatalyst for removal of organic contaminants. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 104, 104693	4.3	20
132	Photodegradation Activity of Nitrogen-rich Graphitic Carbon Nitride Intercalated ZnO/Mg-Al Layered Double Hydroxide Ternary Nanocomposites on Methylene Blue Dye. <i>ChemistrySelect</i> , <b>2019</b> , 4, 2982-2990	1.8	20
131	Functionalized Mesoporous Carbon Nanostructures for Efficient Removal of Eriochrome Black-T from Aqueous Solution. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 1305-1321	2.8	19
130	Influence of the Nafion agglomerate morphology on the water-uptake behavior and fuel cell performance in the proton exchange membrane fuel cells. <i>Applied Surface Science</i> , <b>2019</b> , 481, 777-784	6.7	19
129	Spinel oxide ZnCr <sub>2</sub> O <sub>4</sub> incorporated with ZnS quantum dots for application on visible light driven photocatalyst Azo dye degradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 590, 124505	5.1	19
128	Effects of Heat Treatment on the Catalytic Activity and Methanol Tolerance of Carbon-Supported Platinum Alloys. <i>Electrocatalysis</i> , <b>2012</b> , 3, 108-118	2.7	19

127	Paper flower-derived porous carbons with high-capacitance by chemical and physical activation for sustainable applications. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 2995-3007	5.9	19
126	Hydrothermal synthesis of three dimensional reduced graphene oxide-multiwalled carbon nanotube hybrids anchored with palladium-cerium oxide nanoparticles for alcohol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 4962-4973	6.7	18
125	Synergistic effect of hybrid Ce <sup>3+</sup> /Ce <sup>4+</sup> doped Bi <sub>2</sub> O <sub>3</sub> nano-sphere photocatalyst for enhanced photocatalytic degradation of alizarin red S dye and its NUV excited photoluminescence studies. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103053	6.8	18
124	Tungsten carbide nanotubes supported platinum nanoparticles as a potential sensing platform for oxalic acid. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7849-57	7.8	18
123	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> , <b>2019</b> , 45, 12643-12653	5.1	17
122	Ternary nickel cobalt manganese spinel oxide nanoparticles as heterogeneous electrocatalysts for oxygen evolution and oxygen reduction reaction. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 229, 190-196	4.4	17
121	Green Synthesis of Well Dispersed Nanoparticles using Leaf Extract of Medicinally useful Adhatoda Vasica Nees. <i>Micro and Nanosystems</i> , <b>2012</b> , 4, 192-198	0.6	17
120	Conversion of maize straw into nitrogen-doped porous graphitized carbon with ultra-high surface area as excellent oxygen reduction electrocatalyst for flexible zinc-air batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 362, 137143	6.7	17
119	Activated charcoal and reduced graphene sheets composite structure for highly electro-catalytically active counter electrode material and water treatment. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 7751-7763	6.7	17
118	Precise control of morphology of ultrafine LiMn <sub>2</sub> O <sub>4</sub> nanorods as a supercapacitor electrode via a two-step hydrothermal method. <i>CrystEngComm</i> , <b>2018</b> , 20, 5707-5717	3.3	16
117	Synthesis, characterization and electrocatalytic activity of Pt supported on poly (3,4-ethylenedioxythiophene)/TiO <sub>2</sub> nanocomposites electrodes for methanol oxidation. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 121, 165-171	4.4	16
116	A novel particle-in-nanoplate architecture of iron nickel phosphide intertwined with carbon nanotubes for efficient water oxidation and high-performance sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 791, 1220-1230	5.7	15
115	TEMPO mediated electrocatalytic oxidation of pyridyl carbinol using palladium nanoparticles dispersed on biomass derived porous nanoparticles. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136624	6.7	15
114	High performance, 3D-hierarchical CoS <sub>2</sub> /CoSe@C nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 838, 155537	5.7	15
113	Synergetic effect between MoS <sub>2</sub> and N, S- doped reduced graphene oxide supported palladium nanoparticles for hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 251, 123106	4.4	15
112	Optical studies of nano-structured La-doped ZnO prepared by combustion method. <i>Materials Science in Semiconductor Processing</i> , <b>2012</b> , 15, 308-313	4.3	15
111	Novel ternary g-C <sub>3</sub> N <sub>4</sub> nanosheet/Ag <sub>2</sub> MoO <sub>4</sub> /AgI photocatalysts: Impressive photocatalysts for removal of various contaminants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 403, 112871	4.7	15
110	In-situ development of metal organic frameworks assisted ZnMgAl layered triple hydroxide 2D/2D hybrid as an efficient photocatalyst for organic dye degradation. <i>Chemosphere</i> , <b>2021</b> , 270, 128616	8.4	15

109	Supercapacitive properties of manganese nitride thin film electrodes prepared by reactive magnetron sputtering: Effect of different electrolytes. <i>Ceramics International</i> , <b>2019</b> , 45, 17120-17127	5.1	14
108	Unique Host Matrix to Disperse Pd Nanoparticles for Electrochemical Sensing of Morin: Sustainable Engineering Approach. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 5264-5273	5.5	14
107	Shape- and size-tunable synthesis of tin sulfide thin films for energy applications by electrodeposition. <i>Applied Surface Science</i> , <b>2019</b> , 479, 167-176	6.7	14
106	CoS <sub>2</sub> /MoS <sub>2</sub> decorated with nitrogen doped reduced graphene oxide and multiwalled carbon nanotube 3D hybrid as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 13952-13959	6.7	14
105	Highly sensitive enzyme-free amperometric sensing of hydrogen peroxide in real samples based on Co <sub>3</sub> O <sub>4</sub> nanocolumn structures. <i>Analytical Methods</i> , <b>2019</b> , 11, 2292-2302	3.2	13
104	Microwave-assisted synthesis of gadolinium(III) oxide decorated reduced graphene oxide nanocomposite for detection of hydrogen peroxide in biological and clinical samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 837, 167-174	4.1	13
103	Bimetallic PtCu-decorated reduced graphene oxide (RGO)-TiO <sub>2</sub> nanocomposite for efficient oxygen reduction reaction. <i>Synthetic Metals</i> , <b>2020</b> , 266, 116433	3.6	12
102	Electro-catalytic performance of Pt-supported poly (o-phenylenediamine) microrods for methanol oxidation reaction. <i>Research on Chemical Intermediates</i> , <b>2012</b> , 38, 383-391	2.8	12
101	Camphor sulphonic acid doped novel polycarbazole-g-C <sub>3</sub> N <sub>4</sub> as an efficient electrode material for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 8736-8750	2.1	11
100	Atmospheric-Pressure Plasma Jet-Induced Ultrafast Construction of an Ultrathin Nonstoichiometric Nickel Oxide Layer with Mixed Ni <sup>3+</sup> /Ni <sup>2+</sup> Ions and Rich Oxygen Defects as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5059-5069	6.1	9
99	Spindle-shaped CeO <sub>2</sub> /biochar carbon with oxygen-vacancy as an effective and highly durable electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 2128-2142	6.7	9
98	The Oscillatory Electrooxidation of Small Organic Molecules <b>2017</b> , 145-163		8
97	Solvothermal synthesis and characterizations of graphene-ZnBi <sub>2</sub> O <sub>20</sub> nanocomposites for visible-light driven photocatalytic applications. <i>Ceramics International</i> , <b>2020</b> , 46, 18534-18543	5.1	8
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25	Design and Fabrication of Dealloying-driven Nanoporous Metallic Electrocatalyst <b>2017</b> , 533-555		1
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- 1 Synthesis, characterization and electrocatalytic study of Pd supported on CeO<sub>2</sub>/S-rGO composite towards hydrogen and oxygen evolution reaction. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 12241-12252 2.1