

# Sreekumar Kurungot

## List of Publications by Citations

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210  
papers

8,312  
citations

50  
h-index

81  
g-index

224  
ext. papers

9,797  
ext. citations

7.3  
avg, IF

6.64  
L-index

#	Paper	IF	Citations
210	Two-in-one: inherent anhydrous and water-assisted high proton conduction in a 3D metal-organic framework. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2638-42	16.4	313
209	Novel scalable synthesis of highly conducting and robust PEDOT paper for a high performance flexible solid supercapacitor. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1339-1347	35.4	277
208	Nanoporous Graphene Enriched with Fe/Co-N Active Sites as a Promising Oxygen Reduction Electrocatalyst for Anion Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2150-2162	15.6	245
207	Cobalt-Modified Covalent Organic Framework as a Robust Water Oxidation Electrocatalyst. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4375-4379	9.6	240
206	Interlayer Hydrogen-Bonded Covalent Organic Frameworks as High-Performance Supercapacitors. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10941-10945	16.4	215
205	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10667-71	16.4	209
204	A mechanochemically synthesized covalent organic framework as a proton-conducting solid electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2682-2690	13	201
203	A covalent organic framework-cadmium sulfide hybrid as a prototype photocatalyst for visible-light-driven hydrogen production. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15961-5	4.8	155
202	Graphene enriched with pyrrolic coordination of the doped nitrogen as an efficient metal-free electrocatalyst for oxygen reduction. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23506		143
201	Nanoporous graphene by quantum dots removal from graphene and its conversion to a potential oxygen reduction electrocatalyst via nitrogen doping. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1059	35.4	140
200	Cu <sup>II</sup> Synergism in Cu <sub>1-x</sub> Co <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> Catalysis and XPS Aspects. <i>Journal of Catalysis</i> , <b>2002</b> , 210, 405-417	7.3	136
199	Post modification of MOF derived carbon via g-C <sub>3</sub> N <sub>4</sub> entrapment for an efficient metal-free oxygen reduction reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 3363-6	5.8	132
198	Zeolitic imidazolate framework (ZIF)-derived, hollow-core, nitrogen-doped carbon nanostructures for oxygen-reduction reactions in PEFCs. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9335-42	4.8	130
197	Superprotonic Conductivity in Flexible Porous Covalent Organic Framework Membranes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10894-10898	16.4	129
196	Porous Carbons from Nonporous MOFs: Influence of Ligand Characteristics on Intrinsic Properties of End Carbon. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 4195-4199	3.5	124
195	Low Band Gap Benzimidazole COF Supported Ni <sub>3</sub> N as Highly Active OER Catalyst. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601189	21.8	123
194	Surface-Tuned Co <sub>3</sub> O <sub>4</sub> Nanoparticles Dispersed on Nitrogen-Doped Graphene as an Efficient Cathode Electrocatalyst for Mechanical Rechargeable Zinc-Air Battery Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21138-49	9.5	119

193	Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 29373-29382	9.5	105
192	Zinc ion interactions in a two-dimensional covalent organic framework based aqueous zinc ion battery. <i>Chemical Science</i> , <b>2019</b> , 10, 8889-8894	9.4	103
191	An efficient oxygen reduction electrocatalyst from graphene by simultaneously generating pores and nitrogen doped active sites. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23799		101
190	Low surface energy plane exposed Co <sub>3</sub> O <sub>4</sub> nanocubes supported on nitrogen-doped graphene as an electrocatalyst for efficient water oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 442-51	9.5	95
189	CuPt Nanocage with 3-D Electrocatalytic Surface as an Efficient Oxygen Reduction Electrocatalyst for a Primary ZnAir Battery. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1445-1452	13.1	88
188	Porous-organic-framework-templated nitrogen-rich porous carbon as a more proficient electrocatalyst than Pt/C for the electrochemical reduction of oxygen. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 974-80	4.8	86
187	Low-Overpotential Electrocatalytic Water Splitting with Noble-Metal-Free Nanoparticles Supported in a sp <sup>3</sup> N-Rich Flexible COF. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600110	21.8	83
186	Convergent Covalent Organic Framework Thin Sheets as Flexible Supercapacitor Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28139-28146	9.5	83
185	Domain size manipulation of perfluorinated polymer electrolytes by sulfonic acid-functionalized MWCNTs to enhance fuel cell performance. <i>Langmuir</i> , <b>2009</b> , 25, 8299-305	4	81
184	Imidazole-Linked Crystalline Two-Dimensional Polymer with Ultrahigh Proton-Conductivity. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 14950-14954	16.4	80
183	One-dimensional confinement of a nanosized metal organic framework in carbon nanofibers for improved gas adsorption. <i>Chemical Communications</i> , <b>2012</b> , 48, 2009-11	5.8	79
182	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 180-187	8.5	76
181	Nitrogen-induced surface area and conductivity modulation of carbon nanohorn and its function as an efficient metal-free oxygen reduction electrocatalyst for anion-exchange membrane fuel cells. <i>Small</i> , <b>2015</b> , 11, 352-60	11	74
180	Hydrous RuO <sub>2</sub> -Carbon Nanofiber electrodes with high mass and electrode-specific capacitance for efficient energy storage. <i>Nanoscale</i> , <b>2012</b> , 4, 890-6	7.7	73
179	Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6700-6710	13.1	70
178	Ferrospinel based on Co and Ni prepared via a low temperature route as efficient catalysts for the selective synthesis of o-cresol and 2,6-xyleneol from phenol and methanol. <i>Journal of Molecular Catalysis A</i> , <b>2002</b> , 185, 259-268		70
177	Fe(III) phytate metallogel as a prototype anhydrous, intermediate temperature proton conductor. <i>Chemical Science</i> , <b>2015</b> , 6, 603-607	9.4	68
176	Electrodeposited polyethylenedioxythiophene with infiltrated gel electrolyte interface: a close contest of an all-solid-state supercapacitor with its liquid-state counterpart. <i>Nanoscale</i> , <b>2014</b> , 6, 5944-52	7.7	68

175	A 3D hexaporous carbon assembled from single-layer graphene as high performance supercapacitor. <i>ChemSusChem</i> , <b>2012</b> , 5, 2159-64	8.3	68
174	Improved performance of phosphonated carbon nanotube/polybenzimidazole composite membranes in proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7223		65
173	An all-solid-state-supercapacitor possessing a non-aqueous gel polymer electrolyte prepared using a UV-assisted in situ polymerization strategy. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8461-8476	13	61
172	3D polyaniline porous layer anchored pillared graphene sheets: enhanced interface joined with high conductivity for better charge storage applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7667-7675	9.5	61
171	Carbon Nanohorn-Derived Graphene Nanotubes as a Platinum-Free Fuel Cell Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24256-64	9.5	60
170	Studies on gasoline fuel processor system for fuel-cell powered vehicles application. <i>Applied Catalysis A: General</i> , <b>2001</b> , 215, 1-9	5.1	60
169	From waste paper basket to solid state and Li-HEC ultracapacitor electrodes: a value added journey for shredded office paper. <i>Small</i> , <b>2014</b> , 10, 4395-402	11	58
168	Two-in-One: Inherent Anhydrous and Water-Assisted High Proton Conduction in a 3D Metal-Organic Framework. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2676-2680	3.6	56
167	Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 507, 360-369	9.3	55
166	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. <i>Applied Materials Today</i> , <b>2017</b> , 8, 141-149	6.6	55
165	High Pt Utilization Electrodes for Polymer Electrolyte Membrane Fuel Cells by Dispersing Pt Particles Formed by a Preprecipitation Method on Carbon Polished with Polypyrrole. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14654-14661	3.8	55
164	Artificially Designed Membranes Using Phosphonated Multiwall Carbon Nanotube/Polybenzimidazole Composites for Polymer Electrolyte Fuel Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 2109-2113	6.4	54
163	Rh/Al <sub>2</sub> O <sub>3</sub> Catalytic Layer Integrated with Sol-Gel Synthesized Microporous Silica Membrane for Compact Membrane Reactor Applications. <i>Catalysis Letters</i> , <b>2003</b> , 86, 273-278	2.8	51
162	Zirconium-Substituted Cobalt Ferrite Nanoparticle Supported N-doped Reduced Graphene Oxide as an Efficient Bifunctional Electrocatalyst for Rechargeable Zn/Air Battery. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3715-3726	13.1	50
161	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10825-10829	3.6	50
160	Nucleic aptamer modified porous reduced graphene oxide/MoS <sub>2</sub> based electrodes for viral detection: Application to human papillomavirus (HPV). <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 991-1000	8.5	49
159	Superprotonic Conductivity in Flexible Porous Covalent Organic Framework Membranes. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11060-11064	3.6	49
158	Nanocrystalline Fe-Fe <sub>2</sub> O <sub>3</sub> particle-deposited N-doped graphene as an activity-modulated Pt-free electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , <b>2015</b> , 7, 20117-25	7.7	47

157	High-Performance Flexible Solid-State Supercapacitor with an Extended Nanoregime Interface through in Situ Polymer Electrolyte Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 1233-41	9.5	47
156	High-Level Supercapacitive Performance of Chemically Reduced Graphene Oxide. <i>Chem</i> , <b>2017</b> , 3, 846-860	6.2	46
155	NiZn double hydroxide nanosheet-anchored nitrogen-doped graphene enriched with the NiOOH phase as an activity modulated water oxidation electrocatalyst. <i>Nanoscale</i> , <b>2017</b> , 9, 12590-12600	7.7	46
154	Studies on nano composites of SPEEK/ethylene glycol/cellulose nanocrystals as promising proton exchange membranes. <i>Electrochimica Acta</i> , <b>2019</b> , 293, 260-272	6.7	46
153	Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 346-354	6.7	45
152	Design of a high performance thin all-solid-state supercapacitor mimicking the active interface of its liquid-state counterpart. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 13397-404	9.5	45
151	Influence of acid-base properties of mixed oxides derived from hydrotalcite-like precursors in the transfer hydrogenation of propiophenone. <i>Journal of Molecular Catalysis A</i> , <b>2000</b> , 157, 193-198		45
150	Facile construction of non-precious iron nitride-doped carbon nanofibers as cathode electrocatalysts for proton exchange membrane fuel cells. <i>Chemical Communications</i> , <b>2011</b> , 47, 2910-2	5.8	44
149	Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. <i>ACS Sensors</i> , <b>2016</b> , 1, 1462-1470	9.2	43
148	Carbon Nanofiber with Selectively Decorated Pt Both on Inner and Outer Walls as an Efficient Electrocatalyst for Fuel Cell Applications. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17572-17578	3.8	43
147	Design of an all solid-state supercapacitor based on phosphoric acid doped polybenzimidazole (PBI) electrolyte. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 1097-1103	2.6	41
146	Synthesis of an efficient heteroatom-doped carbon electro-catalyst for oxygen reduction reaction by pyrolysis of protein-rich pulse flour cooked with SiO <sub>2</sub> nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 4251-9	3.6	40
145	Nitrogen and sulphur co-doped crumbled graphene for the oxygen reduction reaction with improved activity and stability in acidic medium. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6014-6020	13	39
144	Dendrite Growth Suppression by Zn <sup>2+</sup> -Integrated Nafion Ionomer Membranes: Beyond Porous Separators toward Aqueous Zn/V <sub>2</sub> O <sub>5</sub> Batteries with Extended Cycle Life. <i>Energy Technology</i> , <b>2019</b> , 7, 1900442	3.5	38
143	Strategic Preparation of Efficient and Durable NiCo Alloy Supported N-Doped Porous Graphene as an Oxygen Evolution Electrocatalyst: A Theoretical and Experimental Investigation. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600532	4.6	38
142	Pt- and TCO-Free Flexible Cathode for DSSC from Highly Conducting and Flexible PEDOT Paper Prepared via in Situ Interfacial Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 553-62	9.5	37
141	Biomass-derived activated carbon material from native European deciduous trees as an inexpensive and sustainable energy material for supercapacitor application. <i>Journal of Energy Storage</i> , <b>2021</b> , 34, 102178	7.8	37
140	Surface-modified single wall carbon nanohorn as an effective electrocatalyst for platinum-free fuel cell cathodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4361-4367	13	36

139	Switching closed-shell to open-shell phenalenyl: toward designing electroactive materials. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5955-60	16.4	36
138	Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 47	16.7	35
137	PtMoOx-carbon nanotube redox couple based electrocatalyst as a potential partner with polybenzimidazole membrane for high temperature Polymer Electrolyte Membrane Fuel Cell applications. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 2878-2887	6.7	35
136	A comparison on the catalytic activity of Zn <sub>1-x</sub> CoxFe <sub>2</sub> O <sub>4</sub> (x = 0, 0.2, 0.5, 0.8 and 1.0)-type ferrosinels prepared via. a low temperature route for the alkylation of aniline and phenol using methanol as the alkylating agent. <i>Applied Catalysis A: General</i> , <b>2002</b> , 230, 245-251	5.1	35
135	Cobalt Ferrite Bearing Nitrogen-Doped Reduced Graphene Oxide Layers Spatially Separated with Microporous Carbon as Efficient Oxygen Reduction Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20730-40	9.5	33
134	Tuning the Performance of Low-Pt Polymer Electrolyte Membrane Fuel Cell Electrodes Derived from Fe <sub>2</sub> O <sub>3</sub> @Pt/C Core-shell Catalyst Prepared by an in Situ Anchoring Strategy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7318-7326	3.8	33
133	Hierarchically nanoperforated graphene as a high performance electrode material for ultracapacitors. <i>Small</i> , <b>2013</b> , 9, 2801-9	11	33
132	Layer-separated MoS <sub>2</sub> bearing reduced graphene oxide formed by an in situ intercalation-cum-anchoring route mediated by Co(OH) <sub>2</sub> as a Pt-free electrocatalyst for oxygen reduction. <i>Nanoscale</i> , <b>2015</b> , 7, 16729-36	7.7	32
131	Conjugated porous polymers as precursors for electrocatalysts and storage electrode materials. <i>Chemical Communications</i> , <b>2016</b> , 52, 316-8	5.8	32
130	Activated nitrogen doped graphene shell towards electrochemical oxygen reduction reaction by its encapsulation on Au nanoparticle (Au@N-Gr) in water-in-oil nanoreactors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1383-1390	13	32
129	Realizing High Capacitance and Rate Capability in Polyaniline by Enhancing the Electrochemical Surface Area through Induction of Superhydrophilicity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 676-686	9.5	32
128	High-Performing PGM-Free AEMFC Cathodes from Carbon-Supported Cobalt Ferrite Nanoparticles. <i>Catalysts</i> , <b>2019</b> , 9, 264	4	31
127	Naphthalene Diimide Copolymers by Direct Arylation Polycondensation as Highly Stable Supercapacitor Electrode Materials. <i>Macromolecules</i> , <b>2018</b> , 51, 954-965	5.5	31
126	Nitrogen-doped graphene interpenetrated 3D Ni-nanocages: efficient and stable water-to-dioxygen electrocatalysts. <i>Nanoscale</i> , <b>2014</b> , 6, 13179-87	7.7	31
125	In situ polymerization process: an essential design tool for lithium polymer batteries. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2708-2788	35.4	31
124	Enhanced proton conduction by post-synthetic covalent modification in a porous covalent framework. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13659-13664	13	30
123	CoSe <sub>2</sub> Supported on Nitrogen-Doped Carbon Nanohorns as a Methanol-Tolerant Cathode for Air-Breathing Microlaminar Flow Fuel Cells. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1339-1345	4.3	30
122	Trigol based reduction of graphite oxide to graphene with enhanced charge storage activity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11140		30



121	Enhanced electrocatalytic performance of functionalized carbon nanotube electrodes for oxygen reduction in proton exchange membrane fuel cells. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10312-7	3.6	30
120	A Distinctive PdCl <sub>2</sub> -Mediated Transformation of Fe-Based Metallogels into Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3434-3437	3.5	29
119	Stability Improvement of Rh/Al <sub>2</sub> O <sub>3</sub> Catalyst Layer by Ceria Doping for Steam Reforming in an Integrated Catalytic Membrane Reactor System. <i>Catalysis Letters</i> , <b>2004</b> , 92, 181-187	2.8	29
118	Vapor-phase methylation of pyridine with methanol to 3-picoline over Zn <sub>1-x</sub> CoxFe <sub>2</sub> O <sub>4</sub> (x=0, 0.2, 0.5, 0.8 and 1.0)-type ternary spinels prepared via a low temperature method. <i>Applied Catalysis A: General</i> , <b>2001</b> , 205, 11-18	5.1	29
117	Electrochemically grown nanoporous MnO <sub>2</sub> nanowalls on a porous carbon substrate with enhanced capacitance through faster ionic and electrical mobility. <i>Chemical Communications</i> , <b>2014</b> , 50, 7188-90	5.8	28
116	Graphene with Fe and S Coordinated Active Centers: An Active Competitor for the Fe-N Active Center for Oxygen Reduction Reaction in Acidic and Basic pH Conditions. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 368-376	6.1	26
115	Electrochemical preparation of nitrogen-doped graphene quantum dots and their size-dependent electrocatalytic activity for oxygen reduction. <i>Bulletin of Materials Science</i> , <b>2015</b> , 38, 435-442	1.7	26
114	In-situ generated Mn <sub>3</sub> O <sub>4</sub> -reduced graphene oxide nanocomposite for oxygen reduction reaction and isolated reduced graphene oxide for supercapacitor applications. <i>Carbon</i> , <b>2019</b> , 154, 285-291	10.4	25
113	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 1509-1516	4.4	24
112	Iron Catalyzed Hydroformylation of Alkenes under Mild Conditions: Evidence of an Fe(II) Catalyzed Process. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4430-4439	16.4	24
111	High hydroxide conductivity in a chemically stable crystalline metal-organic framework containing a water-hydroxide supramolecular chain. <i>Chemical Communications</i> , <b>2016</b> , 52, 8459-62	5.8	24
110	Layer-separated distribution of nitrogen doped graphene by wrapping on carbon nitride tetrapods for enhanced oxygen reduction reactions in acidic medium. <i>Chemical Communications</i> , <b>2014</b> , 50, 13769-72	5.8	24
109	1-Dimensional confinement of porous polyethylenedioxythiophene using carbon nanofibers as a solid template: an efficient charge storage material with improved capacitance retention and cycle stability. <i>RSC Advances</i> , <b>2013</b> , 3, 11877	3.7	24
108	A comparative study on aniline alkylation activity using methanol and dimethyl carbonate as the alkylating agents over Zn <sub>1-x</sub> Co <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ternary spinel systems. <i>Applied Catalysis A: General</i> , <b>2000</b> , 201, L1-L8	5.1	24
107	A rationally designed self-standing VO <sub>2</sub> electrode for high voltage non-aqueous all-solid-state symmetric (2.0 V) and asymmetric (2.8 V) supercapacitors. <i>Nanoscale</i> , <b>2018</b> , 10, 8741-8751	7.7	23
106	Weak Intermolecular Interactions in Covalent Organic Framework-Carbon Nanofiber Based Crystalline yet Flexible Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 30828-30837	9.5	23
105	Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO <sub>4</sub> Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. <i>ACS Omega</i> , <b>2019</b> , 4, 13465-13473	3.9	23
104	Nitrogen-Doped Graphene with a Three-Dimensional Architecture Assisted by Carbon Nitride Tetrapods as an Efficient Metal-Free Electrocatalyst for Hydrogen Evolution. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2643-2652	4.3	23

103	A 3-D nanoribbon-like Pt-free oxygen reduction reaction electrocatalyst derived from waste leather for anion exchange membrane fuel cells and zinc-air batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 7893-7902	7.7	22
102	Disordered Brownmillerite Ba <sub>2</sub> InCeO <sub>5</sub> with Enhanced Oxygen Reduction Activity. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2823-2828	9.6	22
101	Ex-situ dispersion of core-shell nanoparticles of Cu-Pt on an in situ modified carbon surface and their enhanced electrocatalytic activities. <i>Chemical Communications</i> , <b>2011</b> , 47, 3951-3	5.8	22
100	Nitrogen-doped graphene anchored with mixed growth patterns of CuPt alloy nanoparticles as a highly efficient and durable electrocatalyst for the oxygen reduction reaction in an alkaline medium. <i>Nanoscale</i> , <b>2017</b> , 9, 9009-9017	7.7	21
99	Selective N-methylation of aniline with dimethyl carbonate over Zn <sub>1-x</sub> CoxFe <sub>2</sub> O <sub>4</sub> (x=0, 0.2, 0.5, 0.8 and 1.0) type systems. <i>Journal of Molecular Catalysis A</i> , <b>2000</b> , 159, 327-334		21
98	Tuning the functionality of a carbon nanofiber-Pt-RuO <sub>2</sub> system from charge storage to electrocatalysis. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 9766-74	5.1	20
97	Activity Modulated Low Platinum Content Oxygen Reduction Electrocatalysts Prepared by Inducing Nano-Order Dislocations on Carbon Nanofiber through N <sub>2</sub> -Doping. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 14754-14763	3.8	20
96	Carbon nanofiberRuO <sub>2</sub> Poly(benzimidazole) ternary hybrids for improved supercapacitor performance. <i>RSC Advances</i> , <b>2013</b> , 3, 2428	3.7	20
95	Selective N-monomethylation of aniline over Zn <sub>1-x</sub> NixFe <sub>2</sub> O <sub>4</sub> (x=0, 0.2, 0.5, 0.8 and 1) type systems. <i>Applied Catalysis A: General</i> , <b>1999</b> , 182, 327-336	5.1	20
94	Nafion Ionomer-Based Single Component Electrolytes for Aqueous Zn/MnO <sub>2</sub> Batteries with Long Cycle Life. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 5040-5049	8.3	19
93	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8133-8142	7.3	19
92	Single Cell Fabrication Towards the Realistic Evaluation of a CNT-Strung ZIF-Derived Electrocatalyst as a Cathode Material in Alkaline Fuel Cells and Metal-Air Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2928-2933	4.3	19
91	Dioxolanone-Anchored Poly(allyl ether)-Based Cross-Linked Dual-Salt Polymer Electrolytes for High-Voltage Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 567-579	9.5	19
90	Can enantiomer ligands produce structurally distinct homochiral MOFs?. <i>CrystEngComm</i> , <b>2015</b> , 17, 8202-8206	3.5	18
89	Enhanced catalytic activity of polyethylenedioxythiophene towards tri-iodide reduction in DSSCs via 1-dimensional alignment using hollow carbon nanofibers. <i>Nanoscale</i> , <b>2014</b> , 6, 10332-9	7.7	18
88	Rylene Diimide-Based Alternate and Random Copolymers for Flexible Supercapacitor Electrode Materials with Exceptional Stability and High Power Density. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2084-2093	3.8	18
87	1000-fold enhancement in proton conductivity of a MOF using post-synthetically anchored proton transporters. <i>Scientific Reports</i> , <b>2016</b> , 6, 32489	4.9	17
86	NiO-Al <sub>2</sub> O <sub>3</sub> Prepared From A Ni-Al Hydrotalcite Precursor As An Efficient Catalyst For Transfer Hydrogenation Reactions. <i>Synthetic Communications</i> , <b>2000</b> , 30, 1573-1579	1.7	17



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84	In vitro and in silico antifungal efficacy of nitrogen-doped carbon nanohorn (NCNH) against <i>Rhizoctonia solani</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2016</b> , 34, 152-62	3.6	15
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82	Preparation and investigations of ABPBI membrane for HT-PEMFC by immersion precipitation method. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 211-217	9.6	15
81	Selective synthesis of 3-picoline via the vapor-phase methylation of pyridine with methanol over Ni <sub>1-x</sub> Co <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (x = 0, 0.2, 0.5, 0.8 and 1.0) type ferrites. <i>Catalysis Letters</i> , <b>2000</b> , 65, 99-105	2.8	15
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