

Sreekumar Kurungot

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.

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	The role and the necessary features of electrolytes for microsupercapacitors 2022 , 47-116		0
209	Synergistic electronic coupling/cross-talk between the isolated metal halide units of zero dimensional heterometallic (Sb, Mn) halide hybrid with enhanced emission. <i>Journal of Materials Chemistry C</i> , 2021 , 10, 360-370	7.1	1
208	A sulfonated polyvinyl alcohol ionomer membrane favoring smooth electrodeposition of zinc for aqueous rechargeable zinc metal batteries. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 5557-5564	5.8	2
207	Efficient Electrochemical Oxygen Reduction to Hydrogen Peroxide by Transition Metal-Doped Silicate SrNaSiO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 382-390	9.5	2
206	Toward pH Independent Oxygen Reduction Reaction by Polydopamine Derived 3D Interconnected, Iron Carbide Embedded Graphitic Carbon. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8147-8158	9.5	5
205	Zinc-Air Batteries Catalyzed Using Co ₃ O ₄ Nanorod-Supported N-Doped Entangled Graphene for Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4570-4580	6.1	5
204	Enhanced electrocatalytic activity of PtRu/nitrogen and sulphur co-doped crumbled graphene in acid and alkaline media. <i>Journal of Colloid and Interface Science</i> , 2021 , 590, 154-163	9.3	5
203	Synergistic effect of B site co-doping with Co and Ce in bifunctional oxygen electrocatalysis by oxygen deficient brownmillerite Ba ₂ In ₂ O ₅ . <i>Catalysis Today</i> , 2021 , 375, 494-500	5.3	2
202	Interconnected polyaniline nanostructures: Enhanced interface for better supercapacitance retention. <i>Polymer</i> , 2021 , 212, 123169	3.9	4
201	In Situ Preparation of Ionomer as a Tool for Triple-Phase Boundary Enhancement in 3D Graphene Supported Pt Catalyst. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000125	5.9	3
200	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> , 2021 , 34, 102178	7.8	37
199	Facile synthesis of CNT interconnected PVP-ZIF-8 derived hierarchically porous Zn/N co-doped carbon frameworks for oxygen reduction. <i>Nanoscale</i> , 2021 , 13, 6248-6258	7.7	7
198	Naphthalene dianhydride organic anode for a 'rocking-chair' zinc-proton hybrid ion battery. <i>Dalton Transactions</i> , 2021 , 50, 4237-4243	4.3	2
197	In situ polymerization process: an essential design tool for lithium polymer batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 2708-2788	35.4	31
196	PdP/WO ₃ multi-functional catalyst with high activity and stability for direct liquid fuel cells (DLFCs). <i>Sustainable Energy and Fuels</i> , 2021 , 5, 4758-4770	5.8	0
195	A high-voltage non-aqueous hybrid supercapacitor based on the N2200 polymer supported over multiwalled carbon nanotubes. <i>Nanoscale</i> , 2021 , 13, 12314-12326	7.7	6
194	Seed-Mediated Growth of Pt on High-Index Faceted Au Nanocrystals: The Ag Lining and Implications for Electrocatalysis. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9155-9166	5.6	1

193	Hierarchical Nanoflower Arrays of Co S -Ni S on Nickel Foam: A Highly Efficient Binder-Free Electrocatalyst for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2020 , 26, 7900-7911	4.8	12
192	Role of B site ions in bifunctional oxygen electrocatalysis: a structure-property correlation study on doped CaFeO brownmillerites. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15520-15527	3.6	0
191	A NiFe layered double hydroxide-decorated N-doped entangled-graphene framework: a robust water oxidation electrocatalyst. <i>Nanoscale Advances</i> , 2020 , 2, 1709-1717	5.1	8
190	Template assisted synthesis of Ni,N co-doped porous carbon from Ni incorporated ZIF-8 frameworks for electrocatalytic oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2020 , 44, 12343-12354	3.6	9
189	Co9S8 Nanoparticle-Supported Nitrogen-doped Carbon as a Robust Catalyst for Oxygen Reduction Reaction in Both Acidic and Alkaline Conditions. <i>ChemElectroChem</i> , 2020 , 7, 3123-3134	4.3	2
188	FeNx/FeSx-Anchored Carbon Sheet/Carbon Nanotube Composite Electrocatalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2234-2245	5.6	2
187	Nafion Ionomer-Based Single Component Electrolytes for Aqueous Zn/MnO2 Batteries with Long Cycle Life. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5040-5049	8.3	19
186	Fe3+ stabilized 3D cross-linked glycine-melamine formaldehyde networks as precursor for highly efficient oxygen reduction catalyst in alkaline media. <i>Materials Letters</i> , 2020 , 264, 127365	3.3	3
185	WO3 Nanorods Bearing Interconnected Pt Nanoparticle Units as an Activity-Modulated and Corrosion-Resistant Carbon-Free System for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1908-1921	6.1	11
184	Co@CoAl-Layered Double Hydroxide/Nitrogen-Doped Graphene Composite Catalyst for AlH2O-Based Batteries: Simultaneous Hydrogen Production and Electricity Generation. <i>ChemElectroChem</i> , 2020 , 7, 2582-2591	4.3	4
183	Porphyrin-Based Conducting Polymer Hydrogel for Supercapacitor Application. <i>Energy Technology</i> , 2020 , 8, 2000061	3.5	7
182	Dioxolanone-Anchored Poly(allyl ether)-Based Cross-Linked Dual-Salt Polymer Electrolytes for High-Voltage Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 567-579	9.5	19
181	Scalable Synthesis of Manganese-Doped Hydrated Vanadium Oxide as a Cathode Material for Aqueous Zinc-Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48542-48552	9.5	7
180	An In Situ Cross-Linked Nonaqueous Polymer Electrolyte for Zinc-Metal Polymer Batteries and Hybrid Supercapacitors. <i>Small</i> , 2020 , 16, e2002528	11	12
179	Imidazole-Linked Crystalline Two-Dimensional Polymer with Ultrahigh Proton-Conductivity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14950-14954	16.4	80
178	Fe2P4O12/Carbon composite as a highly stable electrode material for electrochemical capacitors. <i>New Journal of Chemistry</i> , 2019 , 43, 399-406	3.6	7
177	Dendrite Growth Suppression by Zn2+-Integrated Nafion Ionomer Membranes: Beyond Porous Separators toward Aqueous Zn/V2O5 Batteries with Extended Cycle Life. <i>Energy Technology</i> , 2019 , 7, 1900442	3.5	38
176	A copper(ii)-coordination polymer based on a sulfonic-carboxylic ligand exhibits high water-facilitated proton conductivity. <i>Dalton Transactions</i> , 2019 , 48, 11034-11044	4.3	4

175	Cubic Palladium Nanorattles with Solid Octahedron Gold Core for Catalysis and Alkaline Membrane Fuel Cell Applications. <i>ChemCatChem</i> , 2019 , 11, 4383-4392	5.2	4
174	Coexisting Few-Layer Assemblies of NiO and MoO ₃ Deposited on Vulcan Carbon as an Efficient and Durable Electrocatalyst for Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4987-4998	6.1	8
173	Medium Modulated Oxygen Reduction Activity of Fe/Co Active Centre-engrafted Electrocatalysts. <i>ChemElectroChem</i> , 2019 , 6, 2956-2964	4.3	1
172	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> , 2019 , 11, 7893-7902	7.7	22
171	High-Performing PGM-Free AEMFC Cathodes from Carbon-Supported Cobalt Ferrite Nanoparticles. <i>Catalysts</i> , 2019 , 9, 264	4	31
170	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1509-1516	4.4	24
169	Weak Intermolecular Interactions in Covalent Organic Framework-Carbon Nanofiber Based Crystalline yet Flexible Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30828-30837	9.5	23
168	In-situ generated Mn ₃ O ₄ -reduced graphene oxide nanocomposite for oxygen reduction reaction and isolated reduced graphene oxide for supercapacitor applications. <i>Carbon</i> , 2019 , 154, 285-291	10.4	25
167	Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2019 , 4, 13465-13473	3.9	23
166	Zinc ion interactions in a two-dimensional covalent organic framework based aqueous zinc ion battery. <i>Chemical Science</i> , 2019 , 10, 8889-8894	9.4	103
165	NiCo ₂ O ₄ nanoarray on CNT sponge: a bifunctional oxygen electrode material for rechargeable Zn air batteries. <i>Nanoscale Advances</i> , 2019 , 1, 3243-3251	5.1	10
164	[MoS] ₂ -Intercalated NiCo-Layered Double Hydroxide Nanospikes: An Efficiently Synergized Material for Urine To Direct H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25917-25927	9.5	13
163	Glycine-Induced Electrodeposition of Nanostructured Cobalt Hydroxide: A Bifunctional Catalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 5300	8.3	3
162	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> , 2019 , 123, 2084-2093	3.8	18
161	Bifunctional Oxygen Reduction and Evolution Activity in Brownmillerites CaFeCo O. <i>ACS Omega</i> , 2019 , 4, 31-38	3.9	10
160	Synthesis of Ultrathin PEDOT on Carbon Nanotubes and Shear Thinning Xanthan Gum-H ₂ SO ₄ Gel Electrolyte for Supercapacitors. <i>ChemElectroChem</i> , 2019 , 6, 1861-1869	4.3	11
159	Studies on nano composites of SPEEK/ethylene glycol/cellulose nanocrystals as promising proton exchange membranes. <i>Electrochimica Acta</i> , 2019 , 293, 260-272	6.7	46
158	A rationally designed self-standing VO ₂ electrode for high voltage non-aqueous all-solid-state symmetric (2.0 V) and asymmetric (2.8 V) supercapacitors. <i>Nanoscale</i> , 2018 , 10, 8741-8751	7.7	23

157	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> , 2018 , 262, 180-187	8.5	76
156	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation. <i>Electrochimica Acta</i> , 2018 , 266, 364-372	6.7	4
155	Nucleic aptamer modified porous reduced graphene oxide/MoS ₂ based electrodes for viral detection: Application to human papillomavirus (HPV). <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 991-1000	8.5	49
154	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> , 2018 , 1, 368-376	6.1	26
153	Water mediated proton conductance in a hydrogen-bonded Ni(II)-bipyridine-glycoluril chloride self-assembled framework. <i>CrystEngComm</i> , 2018 , 20, 1094-1100	3.3	8
152	Naphthalene Diimide Copolymers by Direct Arylation Polycondensation as Highly Stable Supercapacitor Electrode Materials. <i>Macromolecules</i> , 2018 , 51, 954-965	5.5	31
151	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> , 2018 , 8, 3715-3726	13.1	50
150	Iron Catalyzed Hydroformylation of Alkenes under Mild Conditions: Evidence of an Fe(II) Catalyzed Process. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4430-4439	16.4	24
149	Preparation and investigations of ABPBI membrane for HT-PEMFC by immersion precipitation method. <i>Journal of Membrane Science</i> , 2018 , 564, 211-217	9.6	15
148	Convergent Covalent Organic Framework Thin Sheets as Flexible Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28139-28146	9.5	83
147	Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. <i>Light: Science and Applications</i> , 2018 , 7, 47	16.7	35
146	Water-in-Acid Gel Polymer Electrolyte Realized through a Phosphoric Acid-Enriched Polyelectrolyte Matrix toward Solid-State Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12630-12640	8.3	14
145	Morphological Ensembles of N-Doped Porous Carbon Derived from ZIF-8/Fe-Graphene Nanocomposites: Processing and Electrocatalytic Studies. <i>ChemistrySelect</i> , 2018 , 3, 8688-8697	1.8	5
144	Synthesis of Carbon Nanosheets and Nitrogen-Doped Carbon Nanosheets from Perylene Derivatives for Supercapacitor Application. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4576-4586	5.6	5
143	Interlayer Hydrogen-Bonded Covalent Organic Frameworks as High-Performance Supercapacitors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10941-10945	16.4	215
142	Realizing High Capacitance and Rate Capability in Polyaniline by Enhancing the Electrochemical Surface Area through Induction of Superhydrophilicity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 676-686	9.5	32
141	Melamine formaldehyde-metal organic gel interpenetrating polymer network derived intrinsic Fe-N-doped porous graphitic carbon electrocatalysts for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2018 , 42, 18690-18701	3.6	14
140	Layered TiO ₂ Nanosheet-Supported NiCo ₂ O ₄ Nanoparticles as Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemElectroChem</i> , 2018 , 5, 4000-4007	4.3	14

139	Metalloporphyrin Two-Dimensional Polymers via Metal-Catalyst-Free C≡N Bond Formation for Efficient Catalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6442-6450	6.1	15
138	Alkaline Water Electrolysis by NiZn-Double Hydroxide-Derived Porous Nickel Selenide-Nitrogen-Doped Graphene Composite. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	6
137	Superprotonic Conductivity in Flexible Porous Covalent Organic Framework Membranes. <i>Angewandte Chemie</i> , 2018 , 130, 11060-11064	3.6	49
136	Superprotonic Conductivity in Flexible Porous Covalent Organic Framework Membranes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10894-10898	16.4	129
135	Grafoil-Scotch tape-derived highly conducting flexible substrate and its application as a supercapacitor electrode. <i>Nanoscale</i> , 2017 , 9, 3593-3600	7.7	10
134	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6557-6565	7.3	10
133	Proton conduction in a hydrogen-bonded complex of copper(ii)-bipyridine glycoluril nitrate. <i>Dalton Transactions</i> , 2017 , 46, 6968-6974	4.3	14
132	Enhanced proton conduction by post-synthetic covalent modification in a porous covalent framework. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13659-13664	13	30
131	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> , 2017 , 5, 8461-8476	13	61
130	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> , 2017 , 224, 346-354	6.7	45
129	Chitosan Intercalated Metal Organic Gel as a Green Precursor of Fe Entrenched and Fe Distributed N-Doped Mesoporous Graphitic Carbon for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2017 , 2, 8762-8770	1.8	11
128	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. <i>Electrochimica Acta</i> , 2017 , 254, 375-383	6.7	11
127	High-Level Supercapacitive Performance of Chemically Reduced Graphene Oxide. <i>Chem</i> , 2017 , 3, 846-860	6.2	46
126	Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. <i>ACS Catalysis</i> , 2017 , 7, 6700-6710	13.1	70
125	Activity Tuning of Cobalt Ferrite Nanoparticles Anchored on N-Doped Reduced Graphene Oxide as a Potential Oxygen Reduction Electrocatalyst by Zn Substitution in the Spinel Matrix. <i>ChemistrySelect</i> , 2017 , 2, 7845-7853	1.8	6
124	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> , 2017 , 5, 8133-8142	7.3	19
123	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> , 2017 , 4, 2643-2652	4.3	23
122	NiZn double hydroxide nanosheet-anchored nitrogen-doped graphene enriched with the NiOOH phase as an activity modulated water oxidation electrocatalyst. <i>Nanoscale</i> , 2017 , 9, 12590-12600	7.7	46

121	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> , 2017 , 507, 360-369	9.3	55
120	Ultrahigh Ionic Conduction in Water-Stable Close-Packed Metal-Carbonate Frameworks. <i>Inorganic Chemistry</i> , 2017 , 56, 9710-9715	5.1	
119	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> , 2017 , 4, 2928-2933	4.3	19
118	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> , 2017 , 9, 9009-9017	7.7	21
117	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. <i>Applied Materials Today</i> , 2017 , 8, 141-149	6.6	55
116	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> , 2016 , 34, 152-62	3.6	15
115	Low Band Gap Benzimidazole COF Supported Ni ₃ N as Highly Active OER Catalyst. <i>Advanced Energy Materials</i> , 2016 , 6, 1601189	21.8	123
114	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> , 2016 , 3, 1600532	4.6	38
113	Valorization of coffee bean waste: a coffee bean waste derived multifunctional catalyst for photocatalytic hydrogen production and electrocatalytic oxygen reduction reactions. <i>RSC Advances</i> , 2016 , 6, 82103-82111	3.7	14
112	Cobalt Ferrite Bearing Nitrogen-Doped Reduced Graphene Oxide Layers Spatially Separated with Microporous Carbon as Efficient Oxygen Reduction Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20730-40	9.5	33
111	Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. <i>ACS Sensors</i> , 2016 , 1, 1462-1470	9.2	43
110	1000-fold enhancement in proton conductivity of a MOF using post-synthetically anchored proton transporters. <i>Scientific Reports</i> , 2016 , 6, 32489	4.9	17
109	High-index faceted Au nanocrystals with highly controllable optical properties and electro-catalytic activity. <i>Nanoscale</i> , 2016 , 8, 19224-19228	7.7	12
108	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> , 2016 , 26, 2150-2162	15.6	245
107	Low-Overpotential Electrocatalytic Water Splitting with Noble-Metal-Free Nanoparticles Supported in a sp ³ N-Rich Flexible COF. <i>Advanced Energy Materials</i> , 2016 , 6, 1600110	21.8	83
106	High hydroxide conductivity in a chemically stable crystalline metal-organic framework containing a water-hydroxide supramolecular chain. <i>Chemical Communications</i> , 2016 , 52, 8459-62	5.8	24
105	Understanding the electron transfer process in ZnO-naphthol azobenzoic acid composites from photophysical characterisation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22179-87	3.6	3
104	Cobalt-Modified Covalent Organic Framework as a Robust Water Oxidation Electrocatalyst. <i>Chemistry of Materials</i> , 2016 , 28, 4375-4379	9.6	240

103	Unravelling the Mechanism of Electrochemical Degradation of PANI in Supercapacitors: Achieving a Feasible Solution. <i>ChemElectroChem</i> , 2016 , 3, 933-942	4.3	8
102	A mechanochemically synthesized covalent organic framework as a proton-conducting solid electrolyte. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2682-2690	13	201
101	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> , 2016 , 4, 6014-6020	13	39
100	Coordination polymers of Fe(III) and Al(III) ions with TCA ligand: distinctive fluorescence, CO ₂ uptake, redox-activity and oxygen evolution reaction. <i>Dalton Transactions</i> , 2016 , 45, 6901-8	4.3	15
99	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 & Interfaces</i> , 2016 , 8, 553-62	9.5	37
98	High-Performance Flexible Solid-State Supercapacitor with an Extended Nanoregime Interface through in Situ Polymer Electrolyte Generation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1233-41	9.5	47
97	Pb ²⁺ -N Bonding Chemistry: Recycling of Polyaniline Pb Nanocrystals Waste for Generating High-Performance Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 911-918	3.8	12
96	Conjugated porous polymers as precursors for electrocatalysts and storage electrode materials. <i>Chemical Communications</i> , 2016 , 52, 316-8	5.8	32
95	1D Alignment of PEDOT in a Buckypaper for High-Performance Solid Supercapacitors. <i>ChemElectroChem</i> , 2016 , 3, 1329-1336	4.3	13
94	Multifunctional copper dimer: structure, band gap energy, catalysis, magnetism, oxygen reduction reaction and proton conductivity. <i>RSC Advances</i> , 2016 , 6, 37515-37521	3.7	7
93	Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29373-29382	9.5	105
92	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10667-71	16.4	209
91	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie</i> , 2016 , 128, 10825-10829	3.6	50
90	Surface-modified single wall carbon nanohorn as an effective electrocatalyst for platinum-free fuel cell cathodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4361-4367	13	36
89	Switching closed-shell to open-shell phenalenyl: toward designing electroactive materials. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5955-60	16.4	36
88	3D polyaniline porous layer anchored pillared graphene sheets: enhanced interface joined with high conductivity for better charge storage applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7661-9	9.5	61
87	Nanocrystalline Fe-Fe ₂ O ₃ particle-deposited N-doped graphene as an activity-modulated Pt-free electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 20117-25	7.7	47
86	Can enantiomer ligands produce structurally distinct homochiral MOFs?. <i>CrystEngComm</i> , 2015 , 17, 8202-8206	3.06	18

85	Carbon Nanohorn-Derived Graphene Nanotubes as a Platinum-Free Fuel Cell Cathode. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24256-64	9.5	60
84	Surface-Tuned Co ₃ O ₄ Nanoparticles Dispersed on Nitrogen-Doped Graphene as an Efficient Cathode Electrocatalyst for Mechanical Rechargeable Zinc-Air Battery Application. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21138-49	9.5	119
83	Layer-separated MoS ₂ bearing reduced graphene oxide formed by an in situ intercalation-cum-anchoring route mediated by Co(OH) ₂ as a Pt-free electrocatalyst for oxygen reduction. <i>Nanoscale</i> , 2015 , 7, 16729-36	7.7	32
82	Low surface energy plane exposed Co ₃ O ₄ nanocubes supported on nitrogen-doped graphene as an electrocatalyst for efficient water oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 442-51	9.5	95
81	Fe(III) phytate metallogel as a prototype anhydrous, intermediate temperature proton conductor. <i>Chemical Science</i> , 2015 , 6, 603-607	9.4	68
80	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> , 2015 , 11, 352-60	11	74
79	CoSe ₂ Supported on Nitrogen-Doped Carbon Nanohorns as a Methanol-Tolerant Cathode for Air-Breathing Microfluidic Flow Fuel Cells. <i>ChemElectroChem</i> , 2015 , 2, 1339-1345	4.3	30
78	Lithium-Assisted Proton Conduction at 150 °C in a Microporous Triazine-Phenol Polymer. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500301	4.6	6
77	Coherent fusion of water array and protonated amine in a metal-sulfate-based coordination polymer for proton conduction. <i>Inorganic Chemistry</i> , 2015 , 54, 5366-71	5.1	14
76	Electrochemical preparation of nitrogen-doped graphene quantum dots and their size-dependent electrocatalytic activity for oxygen reduction. <i>Bulletin of Materials Science</i> , 2015 , 38, 435-442	1.7	26
75	Effect of B site coordination environment in the ORR activity in disordered brownmillerites Ba ₂ In _{2-x} Ce _x O ₅ ± δ . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3041-9	9.5	13
74	Novel scalable synthesis of highly conducting and robust PEDOT paper for a high performance flexible solid supercapacitor. <i>Energy and Environmental Science</i> , 2015 , 8, 1339-1347	35.4	277
73	CuPt Nanocage with 3-D Electrocatalytic Surface as an Efficient Oxygen Reduction Electrocatalyst for a Primary Zn-Air Battery. <i>ACS Catalysis</i> , 2015 , 5, 1445-1452	13.1	88
72	Electrodeposited polyethylenedioxythiophene with infiltrated gel electrolyte interface: a close contest of an all-solid-state supercapacitor with its liquid-state counterpart. <i>Nanoscale</i> , 2014 , 6, 5944-527.7	7.7	68
71	Two-in-one: inherent anhydrous and water-assisted high proton conduction in a 3D metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2638-42	16.4	313
70	Electrochemically grown nanoporous MnO ₂ nanowalls on a porous carbon substrate with enhanced capacitance through faster ionic and electrical mobility. <i>Chemical Communications</i> , 2014 , 50, 7188-90	5.8	28
69	Two-in-One: Inherent Anhydrous and Water-Assisted High Proton Conduction in a 3D Metal-Organic Framework. <i>Angewandte Chemie</i> , 2014 , 126, 2676-2680	3.6	56
68	Synthesis of an efficient heteroatom-doped carbon electro-catalyst for oxygen reduction reaction by pyrolysis of protein-rich pulse flour cooked with SiO ₂ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4251-9	3.6	40

67	Structure and dynamics of benzyl-NX ₃ (X = Me, Et) trifluoromethanesulfonate ionic liquids. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1831-8	3.4	6
66	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> , 2014 , 50, 13769-72	5.8	24
65	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> , 2014 , 2, 1383-1390	13	32
64	Post modification of MOF derived carbon via g-C ₃ N ₄ entrapment for an efficient metal-free oxygen reduction reaction. <i>Chemical Communications</i> , 2014 , 50, 3363-6	5.8	132
63	Enhanced catalytic activity of polyethylenedioxythiophene towards tri-iodide reduction in DSSCs via 1-dimensional alignment using hollow carbon nanofibers. <i>Nanoscale</i> , 2014 , 6, 10332-9	7.7	18
62	A Distinctive PdCl ₂ -Mediated Transformation of Fe-Based Metallogels into Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2014 , 14, 3434-3437	3.5	29
61	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> , 2014 , 7, 1059	35.4	140
60	From waste paper basket to solid state and Li-HEC ultracapacitor electrodes: a value added journey for shredded office paper. <i>Small</i> , 2014 , 10, 4395-402	11	58
59	Nitrogen-doped graphene interpenetrated 3D Ni-nanocages: efficient and stable water-to-dioxygen electrocatalysts. <i>Nanoscale</i> , 2014 , 6, 13179-87	7.7	31
58	A covalent organic framework-cadmium sulfide hybrid as a prototype photocatalyst for visible-light-driven hydrogen production. <i>Chemistry - A European Journal</i> , 2014 , 20, 15961-5	4.8	155
57	Redox-Mediated Synthesis of Functionalised Graphene: A Strategy towards 2D Multifunctional Electrocatalysts for Energy Conversion Applications. <i>ChemPlusChem</i> , 2013 , 78, 1296-1303	2.8	6
56	Porous Carbons from Nonporous MOFs: Influence of Ligand Characteristics on Intrinsic Properties of End Carbon. <i>Crystal Growth and Design</i> , 2013 , 13, 4195-4199	3.5	124
55	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> , 2013 , 3, 11877	3.7	24
54	Effect of the viscosity of poly(benzimidazole) on the performance of a multifunctional electrocatalyst with an ideal interfacial structure. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4265	13	4
53	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> , 2013 , 19, 974-80	4.8	86
52	3-Dimensionally self-assembled single crystalline platinum nanostructures on few-layer graphene as an efficient oxygen reduction electrocatalyst. <i>RSC Advances</i> , 2013 , 3, 6913	3.7	10
51	Carbon nanofiber@CuO ₂ @poly(benzimidazole) ternary hybrids for improved supercapacitor performance. <i>RSC Advances</i> , 2013 , 3, 2428	3.7	20
50	Hierarchically nanoporated graphene as a high performance electrode material for ultracapacitors. <i>Small</i> , 2013 , 9, 2801-9	11	33

49	Zeolitic imidazolate framework (ZIF)-derived, hollow-core, nitrogen-doped carbon nanostructures for oxygen-reduction reactions in PEFCs. <i>Chemistry - A European Journal</i> , 2013 , 19, 9335-42	4.8	130
48	Design of a high performance thin all-solid-state supercapacitor mimicking the active interface of its liquid-state counterpart. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13397-404	9.5	45
47	A 3D hexaporous carbon assembled from single-layer graphene as high performance supercapacitor. <i>ChemSusChem</i> , 2012 , 5, 2159-64	8.3	68
46	Hydrous RuO ₂ -Carbon Nanofiber electrodes with high mass and electrode-specific capacitance for efficient energy storage. <i>Nanoscale</i> , 2012 , 4, 890-6	7.7	73
45	Polybenzimidazole mediated N-doping along the inner and outer surfaces of a carbon nanofiber and its oxygen reduction properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23668		13
44	One-dimensional confinement of a nanosized metal organic framework in carbon nanofibers for improved gas adsorption. <i>Chemical Communications</i> , 2012 , 48, 2009-11	5.8	79
43	Tuning the functionality of a carbon nanofiber-Pt-RuO ₂ system from charge storage to electrocatalysis. <i>Inorganic Chemistry</i> , 2012 , 51, 9766-74	5.1	20
42	Activity Modulated Low Platinum Content Oxygen Reduction Electrocatalysts Prepared by Inducing Nano-Order Dislocations on Carbon Nanofiber through N ₂ -Doping. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14754-14763	3.8	20
41	Graphene enriched with pyrrolic coordination of the doped nitrogen as an efficient metal-free electrocatalyst for oxygen reduction. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23506		143
40	An efficient oxygen reduction electrocatalyst from graphene by simultaneously generating pores and nitrogen doped active sites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23799		101
39	Disordered Brownmillerite Ba ₂ InCeO ₅ with Enhanced Oxygen Reduction Activity. <i>Chemistry of Materials</i> , 2012 , 24, 2823-2828	9.6	22
38	Tuning the Performance of Low-Pt Polymer Electrolyte Membrane Fuel Cell Electrodes Derived from Fe ₂ O ₃ @Pt/C Core-Shell Catalyst Prepared by an in Situ Anchoring Strategy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7318-7326	3.8	33
37	Trigol based reduction of graphite oxide to graphene with enhanced charge storage activity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11140		30
36	Enhanced electrocatalytic performance of functionalized carbon nanotube electrodes for oxygen reduction in proton exchange membrane fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10312-10316	3.6	30
35	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> , 2011 , 47, 3951-3	5.8	22
34	Highly exposed and activity modulated sandwich type Pt thin layer catalyst with enhanced utilization. <i>Journal of Materials Chemistry</i> , 2011 , 21, 19039		8
33	Facile construction of non-precious iron nitride-doped carbon nanofibers as cathode electrocatalysts for proton exchange membrane fuel cells. <i>Chemical Communications</i> , 2011 , 47, 2910-2	5.8	44
32	Improved performance of phosphonated carbon nanotube-polybenzimidazole composite membranes in proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7223		65

31	Compact Catalytic Membrane Reactors for Reforming Applications Based on an Integrated Sandwiched Catalyst Layer 2011 , 227-242		
30	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> , 2010 , 114, 14654-14661	3.8	55
29	Artificially Designed Membranes Using Phosphonated Multiwall Carbon Nanotube/Polybenzimidazole Composites for Polymer Electrolyte Fuel Cells. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2109-2113	6.4	54
28	Bio-inspired catalyst compositions for enhanced oxygen reduction using nanostructured Pt electrocatalysts in polymer electrolyte fuel cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9651		4
27	High aspect ratio nanoscale multifunctional materials derived from hollow carbon nanofiber by polymer insertion and metal decoration. <i>Chemical Communications</i> , 2010 , 46, 5590-2	5.8	16
26	Pt/MoO _x -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> , 2010 , 55, 2878-2887	6.7	35
25	Design of an all solid-state supercapacitor based on phosphoric acid doped polybenzimidazole (PBI) electrolyte. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1097-1103	2.6	41
24	Domain size manipulation of perfluorinated polymer electrolytes by sulfonic acid-functionalized MWCNTs to enhance fuel cell performance. <i>Langmuir</i> , 2009 , 25, 8299-305	4	81
23	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> , 2009 , 113, 17572-17578	3.8	43
22	Stability Improvement of Rh/Al ₂ O ₃ Catalyst Layer by Ceria Doping for Steam Reforming in an Integrated Catalytic Membrane Reactor System. <i>Catalysis Letters</i> , 2004 , 92, 181-187	2.8	29
21	Rh/Al ₂ O ₃ Catalytic Layer Integrated with Sol-Gel Synthesized Microporous Silica Membrane for Compact Membrane Reactor Applications. <i>Catalysis Letters</i> , 2003 , 86, 273-278	2.8	51
20	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> , 2002 , 185, 259-268		70
19	A comparison on the catalytic activity of Zn _{1-x} CoxFe ₂ O ₄ (x = 0, 0.2, 0.5, 0.8 and 1.0)-type ferrospinel 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> , 2002 , 230, 245-251	5.1	35
18	Cu-Co Synergism in Cu _{1-x} CoxFe ₂ O ₄ Catalysis and XPS Aspects. <i>Journal of Catalysis</i> , 2002 , 210, 405-417	7.3	136
17	Vapor-phase methylation of pyridine with methanol to 3-picoline over Zn _{1-x} CoxFe ₂ O ₄ (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> , 2001 , 205, 11-18	5.1	29
16	Studies on gasoline fuel processor system for fuel-cell powered vehicles application. <i>Applied Catalysis A: General</i> , 2001 , 215, 1-9	5.1	60
15	Catalytic Activity of Rare Earth-Promoted SO ₂ /SnO ₂ in the Oxidative Dehydrogenation of Ethylbenzene. <i>Bulletin of the Chemical Society of Japan</i> , 2000 , 73, 1285-1290	5.1	3
14	Chemoselective Transfer Hydrogenation Reactions over Calcined-Layered Double Hydroxides. <i>Bulletin of the Chemical Society of Japan</i> , 2000 , 73, 1425-1427	5.1	10

13	Selective N-monomethylation of aniline using Zn _{1-x} Co _x Fe ₂ O ₄ (x=0, 0.2, 0.5, 0.8 and 1.0) type systems. <i>Journal of Molecular Catalysis A</i> , 2000 , 152, 225-236		13
12	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> , 2000 , 157, 193-198		45
11	Selective N-methylation of aniline with dimethyl carbonate over Zn _{1-x} Co _x Fe ₂ O ₄ (x=0, 0.2, 0.5, 0.8 and 1.0) type systems. <i>Journal of Molecular Catalysis A</i> , 2000 , 159, 327-334		21
10	A comparative study on aniline alkylation activity using methanol and dimethyl carbonate as the alkylating agents over Zn _{1-x} Co _x Fe ₂ O ₄ ternary spinel systems. <i>Applied Catalysis A: General</i> , 2000 , 201, L1-L8	5.1	24
9	Alkylation of Phenol with Methanol Over Rare Earth Promoted Sulfated Tin Oxide Catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2000 , 69, 339-343		8
8	Kinetics of the N-Monoalkylation of Aniline with Methanol Over Zn _{1-x} Co _x Fe ₂ O ₄ (X = 0, 0.2, 0.5, 0.8 and 1.0)-Type Systems. <i>Reaction Kinetics and Catalysis Letters</i> , 2000 , 70, 161-167		2
7	Selective synthesis of 3-picoline via the vapor-phase methylation of pyridine with methanol over Ni _{1-x} Co _x Fe ₂ O ₄ (x = 0, 0.2, 0.5, 0.8 and 1.0) type ferrites. <i>Catalysis Letters</i> , 2000 , 65, 99-105	2.8	15
6	Selective Methylation of Phenol, Aniline and Catechol with Dimethyl Carbonate Over Calcined Mg-Al Hydrotalcites. <i>Synthetic Communications</i> , 2000 , 30, 3929-3934	1.7	9
5	NiO-Al ₂ O ₃ Prepared From A Ni-Al Hydrotalcite Precursor As An Efficient Catalyst For Transfer Hydrogenation Reactions. <i>Synthetic Communications</i> , 2000 , 30, 1573-1579	1.7	17
4	Selective N-monomethylation of aniline over Zn _{1-x} Ni _x Fe ₂ O ₄ (x=0, 0.2, 0.5, 0.8 and 1) type systems. <i>Applied Catalysis A: General</i> , 1999 , 182, 327-336	5.1	20
3	Electron donor properties and catalytic activity of manganese ferrosinels. <i>Reaction Kinetics and Catalysis Letters</i> , 1999 , 66, 39-45		2
2	Reduction of Aromatic Nitro Compounds with Hydrazine Hydrate over a CeO ₂ /SnO ₂ Catalyst. <i>Journal of Chemical Research Synopses</i> , 1999 , 674-675		11
1	Calcined Layered Double Hydroxides as Basic Heterogeneous Catalysts for the Oppenauer Oxidation of Alcohols. <i>Bulletin of the Chemical Society of Japan</i> , 1999 , 72, 2117-2119	5.1	11