# Sreekumar Kurungot

List of Publications by Year
in descending order

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| 219 | 11,266 | 25034 | 38395 |
|---|---|---|---|
| papers | citations | 57 h-index | 95 g-index |

| 224 | 224 | 224 | 14122 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cobalt-Modified Covalent Organic Framework as a Robust Water Oxidation Electrocatalyst. Chemistry of Materials, 2016, 28, 4375-4379. | 6.7 | 368 |
| 2 | Twoâ€inâ€One: Inherent Anhydrous and Waterâ€Assisted High Proton Conduction in a 3D Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2014, 53, 2638-2642. | 13.8 | 367 |
| 3 | Novel scalable synthesis of highly conducting and robust PEDOT paper for a high performance flexible solid supercapacitor. Energy and Environmental Science, 2015, 8, 1339-1347. | 30.8 | 350 |
| 4 | Interlayer Hydrogen-Bonded Covalent Organic Frameworks as High-Performance Supercapacitors. Journal of the American Chemical Society, 2018, 140, 10941-10945. | 13.7 | 339 |
| 5 | Hydrogenâ€Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Protonâ€Conducting Materials. Angewandte Chemie - International Edition, 2016, 55, 10667-10671. | 13.8 | 334 |
| 6 | A mechanochemically synthesized covalent organic framework as a proton-conducting solid electrolyte. Journal of Materials Chemistry A, 2016, 4, 2682-2690. | 10.3 | 309 |
| 7 | Nanoporous Graphene Enriched with Fe/Coâ€N Active Sites as a Promising Oxygen Reduction Electrocatalyst for Anion Exchange Membrane Fuel Cells. Advanced Functional Materials, 2016, 26, 2150-2162. | 14.9 | 305 |
| 8 | Zinc ion interactions in a two-dimensional covalent organic framework based aqueous zinc ion battery. Chemical Science, 2019, 10, 8889-8894. | 7.4 | 220 |
| 9 | A Covalent Organic Frameworkâ€“Cadmium Sulfide Hybrid as a Prototype Photocatalyst for Visibleâ€Lightâ€Driven Hydrogen Production. Chemistry - A European Journal, 2014, 20, 15961-15965. | 3.3 | 217 |
| 10 | Superprotonic Conductivity in Flexible Porous Covalent Organic Framework Membranes. Angewandte Chemie - International Edition, 2018, 57, 10894-10898. | 13.8 | 207 |
| 11 | Low Band Gap Benzimidazole COF Supported Ni<sub>3</sub>N as Highly Active OER Catalyst. Advanced Energy Materials, 2016, 6, 1601189. | 19.5 | 182 |
| 12 | Cuâ€“Co Synergism in Cu1âˆ’xCoxFe2O4â€”Catalysis and XPS Aspects. Journal of Catalysis, 2002, 210, 405-417. | 6.2 | 164 |
| 13 | Graphene enriched with pyrrolic coordination of the doped nitrogen as an efficient metal-free electrocatalyst for oxygen reduction. Journal of Materials Chemistry, 2012, 22, 23506. | 6.7 | 159 |
| 14 | Nanoporous graphene by quantum dots removal from graphene and its conversion to a potential oxygen reduction electrocatalyst via nitrogen doping. Energy and Environmental Science, 2014, 7, 1059. | 30.8 | 156 |
| 15 | Imidazole-Linked Crystalline Two-Dimensional Polymer with Ultrahigh Proton-Conductivity. Journal of the American Chemical Society, 2019, 141, 14950-14954. | 13.7 | 148 |
| 16 | Zeolitic Imidazolate Framework (ZIF)â€Derived, Hollowâ€Core, Nitrogenâ€Doped Carbon Nanostructures for Oxygenâ€Reduction Reactions in PEFCs. Chemistry - A European Journal, 2013, 19, 9335-9342. | 3.3 | 147 |
| 17 | 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. Chemical Communications, 2014, 50, 3363-3366. | 4.1 | 145 |
| 18 | Surface-Tuned Co<sub>3</sub>O<sub>4</sub> Nanoparticles Dispersed on Nitrogen-Doped Graphene as an Efficient Cathode Electrocatalyst for Mechanical Rechargeable Zincâ€“Air Battery Application. ACS Applied Materials & Interfaces, 2015, 7, 21138-21149. | 8.0 | 145 |

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| 19 | In situpolymerization process: an essential design tool for lithium polymer batteries. Energy and Environmental Science, 2021, 14, 2708-2788. | 30.8 | 140 |
| 20 | Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 29373-29382. | 8.0 | 139 |
| 21 | Porous Carbons from Nonporous MOFs: Influence of Ligand Characteristics on Intrinsic Properties of End Carbon. Crystal Growth and Design, 2013, 13, 4195-4199. | 3.0 | 138 |
| 22 | An efficient oxygen reduction electrocatalyst from graphene by simultaneously generating pores and nitrogen doped active sites. Journal of Materials Chemistry, 2012, 22, 23799. | 6.7 | 136 |
| 23 | Convergent Covalent Organic Framework Thin Sheets as Flexible Supercapacitor Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 28139-28146. | 8.0 | 134 |
| 24 | Lowâ€Overpotential Electrocatalytic Water Splitting with Nobleâ€Metalâ€Free Nanoparticles Supported in a sp<sup>3</sup> Nâ€Rich Flexible COF. Advanced Energy Materials, 2016, 6, 1600110. | 19.5 | 121 |
| 25 | 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. ACS Applied Materials & Interfaces, 2015, 7, 442-451. | 8.0 | 108 |
| 26 | Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode. Sensors and Actuators B: Chemical, 2018, 262, 180-187. | 7.8 | 108 |
| 27 | Biomass-derived activated carbon material from native European deciduous trees as an inexpensive and sustainable energy material for supercapacitor application. Journal of Energy Storage, 2021, 34, 102178. | 8.1 | 105 |
| 28 | Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. ACS Catalysis, 2017, 7, 6700-6710. | 11.2 | 104 |
| 29 | Cuâ€“Pt Nanocage with 3-D Electrocatalytic Surface as an Efficient Oxygen Reduction Electrocatalyst for a Primary Znâ€“Air Battery. ACS Catalysis, 2015, 5, 1445-1452. | 11.2 | 103 |
| 30 | One-dimensional confinement of a nanosized metal organic framework in carbon nanofibers for improved gas adsorption. Chemical Communications, 2012, 48, 2009. | 4.1 | 96 |
| 31 | Porousâ€Organicâ€Frameworkâ€Templated Nitrogenâ€Rich Porous Carbon as a More Proficient Electrocatalyst than Pt/C for the Electrochemical Reduction of Oxygen. Chemistry - A European Journal, 2013, 19, 974-980. | 3.3 | 91 |
| 32 | Fe(<scp>iii</scp>) phytate metallogel as a prototype anhydrous, intermediate temperature proton conductor. Chemical Science, 2015, 6, 603-607. | 7.4 | 90 |
| 33 | Domain Size Manipulation of Perflouorinated Polymer Electrolytes by Sulfonic Acid-Functionalized MWCNTs To Enhance Fuel Cell Performance. Langmuir, 2009, 25, 8299-8305. | 3.5 | 87 |
| 34 | Electrodeposited polyethylenedioxythiophene with infiltrated gel electrolyte interface: a close contest of an all-solid-state supercapacitor with its liquid-state counterpart. Nanoscale, 2014, 6, 5944. | 5.6 | 85 |
| 35 | 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. Small, 2015, 11, 352-360. | 10.0 | 83 |
| 36 | An all-solid-state-supercapacitor possessing a non-aqueous gel polymer electrolyte prepared using a UV-assisted in situ polymerization strategy. Journal of Materials Chemistry A, 2017, 5, 8461-8476. | 10.3 | 83 |

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| 37 | Nucleic aptamer modified porous reduced graphene oxide/MoS2 based electrodes for viral detection: Application to human papillomavirus (HPV). Sensors and Actuators B: Chemical, 2018, 262, 991-1000. | 7.8 | 82 |
| 38 | Ferrospinels based on Co and Ni prepared via a low temperature route as efficient catalysts for the selective synthesis of o-cresol and 2,6-xylenol from phenol and methanol. Journal of Molecular Catalysis A, 2002, 185, 259-268. | 4.8 | 79 |
| 39 | Improved performance of phosphonated carbon nanotubeâ€“polybenzimidazole composite membranes in proton exchange membrane fuel cells. Journal of Materials Chemistry, 2011, 21, 7223. | 6.7 | 77 |
| 40 | Hydrous RuO<sub>2</sub>â€“carbon nanofiber electrodes with high mass and electrode-specific capacitance for efficient energy storage. Nanoscale, 2012, 4, 890-896. | 5.6 | 77 |
| 41 | Studies on gasoline fuel processor system for fuel-cell powered vehicles application. Applied Catalysis A: General, 2001, 215, 1-9. | 4.3 | 76 |
| 42 | Hydrogenâ€Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Protonâ€Conducting Materials. Angewandte Chemie, 2016, 128, 10825-10829. | 2.0 | 76 |
| 43 | Dendrite Growth Suppression by Zn<sup>2+</sup>â€Integrated Nafion Ionomer Membranes: Beyond Porous Separators toward Aqueous Zn/V<sub>2</sub>O<sub>5</sub> Batteries with Extended Cycle Life. Energy Technology, 2019, 7, 1900442. | 3.8 | 76 |
| 44 | Zirconium-Substituted Cobalt Ferrite Nanoparticle Supported N-doped Reduced Graphene Oxide as an Efficient Bifunctional Electrocatalyst for Rechargeable Znâ€“Air Battery. ACS Catalysis, 2018, 8, 3715-3726. | 11.2 | 75 |
| 45 | From Waste Paper Basket to Solid State and Liâ€HEC Ultracapacitor Electrodes: A Value Added Journey for Shredded Office Paper. Small, 2014, 10, 4395-4402. | 10.0 | 73 |
| 46 | A 3D Hexaporous Carbon Assembled from Singleâ€Layer Graphene as High Performance Supercapacitor. ChemSusChem, 2012, 5, 2159-2164. | 6.8 | 72 |
| 47 | Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. Journal of Colloid and Interface Science, 2017, 507, 360-369. | 9.4 | 72 |
| 48 | Studies on nano composites of SPEEK/ethylene glycol/cellulose nanocrystals as promising proton exchange membranes. Electrochimica Acta, 2019, 293, 260-272. | 5.2 | 71 |
| 49 | Superprotonic Conductivity in Flexible Porous Covalent Organic Framework Membranes. Angewandte Chemie, 2018, 130, 11060-11064. | 2.0 | 70 |
| 50 | N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. Applied Materials Today, 2017, 8, 141-149. | 4.3 | 69 |
| 51 | 3D Polyaniline Porous Layer Anchored Pillared Graphene Sheets: Enhanced Interface Joined with High Conductivity for Better Charge Storage Applications. ACS Applied Materials & Interfaces, 2015, 7, 7661-7669. | 8.0 | 68 |
| 52 | High-Level Supercapacitive Performance of Chemically Reduced Graphene Oxide. CheM, 2017, 3, 846-860. | 11.7 | 68 |
| 53 | Carbon Nanohorn-Derived Graphene Nanotubes as a Platinum-Free Fuel Cell Cathode. ACS Applied Materials & Interfaces, 2015, 7, 24256-24264. | 8.0 | 67 |
| 54 | Artificially Designed Membranes Using Phosphonated Multiwall Carbon Nanotubeâ^'Polybenzimidazole Composites for Polymer Electrolyte Fuel Cells. Journal of Physical Chemistry Letters, 2010, 1, 2109-2113. | 4.6 | 64 |

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| 55 | NiZn double hydroxide nanosheet-anchored nitrogen-doped graphene enriched with the Î³-NiOOH phase as an activity modulated water oxidation electrocatalyst. Nanoscale, 2017, 9, 12590-12600. | 5.6 | 64 |
| 56 | High-Performance Flexible Solid-State Supercapacitor with an Extended Nanoregime Interface through in Situ Polymer Electrolyte Generation. ACS Applied Materials & Interfaces, 2016, 8, 1233-1241. | 8.0 | 59 |
| 57 | Title is missing!. Catalysis Letters, 2003, 86, 273-278. | 2.6 | 58 |
| 58 | High Pt Utilization Electrodes for Polymer Electrolyte Membrane Fuel Cells by Dispersing Pt Particles Formed by a Preprecipitation Method on Carbon â€œPolishedâ€•with Polypyrrole. Journal of Physical Chemistry C, 2010, 114, 14654-14661. | 3.1 | 58 |
| 59 | Nanocrystalline Feâ€“Fe<sub>2</sub>O<sub>3</sub> particle-deposited N-doped graphene as an activity-modulated Pt-free electrocatalyst for oxygen reduction reaction. Nanoscale, 2015, 7, 20117-20125. | 5.6 | 58 |
| 60 | Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. ACS Sensors, 2016, 1, 1462-1470. | 7.8 | 57 |
| 61 | Weak Intermolecular Interactions in Covalent Organic Framework-Carbon Nanofiber Based Crystalline yet Flexible Devices. ACS Applied Materials & Interfaces, 2019, 11, 30828-30837. | 8.0 | 54 |
| 62 | Design of a High Performance Thin All-Solid-State Supercapacitor Mimicking the Active Interface of Its Liquid-State Counterpart. ACS Applied Materials & Interfaces, 2013, 5, 13397-13404. | 8.0 | 53 |
| 63 | Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing. Electrochimica Acta, 2017, 224, 346-354. | 5.2 | 53 |
| 64 | High-Performing PGM-Free AEMFC Cathodes from Carbon-Supported Cobalt Ferrite Nanoparticles. Catalysts, 2019, 9, 264. | 3.5 | 53 |
| 65 | Strategic Preparation of Efficient and Durable NiCo Alloy Supported Nâ€Đoped Porous Graphene as an Oxygen Evolution Electrocatalyst: A Theoretical and Experimental Investigation. Advanced Materials Interfaces, 2016, 3, 1600532. | 3.7 | 50 |
| 66 | Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. Light: Science and Applications, 2018, 7, 47. | 16.6 | 50 |
| 67 | Influence of acidâ€“base properties of mixed oxides derived from hydrotalcite-like precursors in the transfer hydrogenation of propiophenone. Journal of Molecular Catalysis A, 2000, 157, 193-198. | 4.8 | 48 |
| 68 | Surface-modified single wall carbon nanohorn as an effective electrocatalyst for platinum-free fuel cell cathodes. Journal of Materials Chemistry A, 2015, 3, 4361-4367. | 10.3 | 47 |
| 69 | Switching Closed-Shell to Open-Shell Phenalenyl: Toward Designing Electroactive Materials. Journal of the American Chemical Society, 2015, 137, 5955-5960. | 13.7 | 47 |
| 70 | Naphthalene Diimide Copolymers by Direct Arylation Polycondensation as Highly Stable Supercapacitor Electrode Materials. Macromolecules, 2018, 51, 954-965. | 4.8 | 47 |
| 71 | Nitrogen and sulphur co-doped crumbled graphene for the oxygen reduction reaction with improved activity and stability in acidic medium. Journal of Materials Chemistry A, 2016, 4, 6014-6020. | 10.3 | 46 |
| 72 | Design of an â€œall solid-stateâ€•supercapacitor based on phosphoric acid doped polybenzimidazole (PBI) electrolyte. Journal of Applied Electrochemistry, 2009, 39, 1097-1103. | 2.9 | 45 |

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| 73 | Carbon Nanofiber with Selectively Decorated Pt Both on Inner and Outer Walls as an Efficient Electrocatalyst for Fuel Cell Applications. Journal of Physical Chemistry C, 2009, 113, 17572-17578. | 3.1 | 45 |
| 74 | Facile construction of non-precious iron nitride-doped carbon nanofibers as cathode electrocatalysts for proton exchange membrane fuel cells. Chemical Communications, 2011, 47, 2910. | 4.1 | 45 |
| 75 | Synthesis of an efficient heteroatom-doped carbon electro-catalyst for oxygen reduction reaction by pyrolysis of protein-rich pulse flour cooked with SiO2 nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 4251. | 2.8 | 45 |
| 76 | Realizing High Capacitance and Rate Capability in Polyaniline by Enhancing the Electrochemical Surface Area through Induction of Superhydrophilicity. ACS Applied Materials & Interfaces, 2018, 10, 676-686. | 8.0 | 45 |
| 77 | A comparison on the catalytic activity of Zn1â^'xCoxFe2O4 (x = 0, 0.2, 0.5, 0.8 and 1.0)-type ferrospinels prepared via. a low temperature route for the alkylation of aniline and phenol using methanol as the alkylating agent. Applied Catalysis A: General, 2002, 230, 245-251. | 4.3 | 42 |
| 78 | Ptâ€“MoOx-carbon nanotube redox couple based electrocatalyst as a potential partner with polybenzimidazole membrane for high temperature Polymer Electrolyte Membrane Fuel Cell applications. Electrochimica Acta, 2010, 55, 2878-2887. | 5.2 | 42 |
| 79 | Cobalt Ferrite Bearing Nitrogen-Doped Reduced Graphene Oxide Layers Spatially Separated with Microporous Carbon as Efficient Oxygen Reduction Electrocatalyst. ACS Applied Materials & Interfaces, 2016, 8, 20730-20740. | 8.0 | 41 |
| 80 | Pt- and TCO-Free Flexible Cathode for DSSC from Highly Conducting and Flexible PEDOT Paper Prepared via in Situ Interfacial Polymerization. ACS Applied Materials & Interfaces, 2016, 8, 553-562. | 8.0 | 40 |
| 81 | Conjugated porous polymers as precursors for electrocatalysts and storage electrode materials. Chemical Communications, 2016, 52, 316-318. | 4.1 | 40 |
| 82 | Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma. Analytical and Bioanalytical Chemistry, 2019, 411, 1509-1516. | 3.7 | 39 |
| 83 | Enhanced proton conduction by post-synthetic covalent modification in a porous covalent framework. Journal of Materials Chemistry A, 2017, 5, 13659-13664. | 10.3 | 38 |
| 84 | Iron Catalyzed Hydroformylation of Alkenes under Mild Conditions: Evidence of an Fe(II) Catalyzed Process. Journal of the American Chemical Society, 2018, 140, 4430-4439. | 13.7 | 38 |
| 85 | In-situ generated Mn3O4-reduced graphene oxide nanocomposite for oxygen reduction reaction and isolated reduced graphene oxide for supercapacitor applications. Carbon, 2019, 154, 285-291. | 10.3 | 38 |
| 86 | Nafion Ionomer-Based Single Component Electrolytes for Aqueous Zn/MnO<sub>2</sub> Batteries with Long Cycle Life. ACS Sustainable Chemistry and Engineering, 2020, 8, 5040-5049. | 6.7 | 37 |
| 87 | Stability Improvement of Rh/Î³-Al2O3Catalyst Layer by Ceria Doping for Steam Reforming in an Integrated Catalytic Membrane Reactor System. Catalysis Letters, 2004, 92, 181-187. | 2.6 | 36 |
| 88 | 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. Nanoscale, 2015, 7, 16729-16736. | 5.6 | 36 |
| 89 | Graphene with Fe and S Coordinated Active Centers: An Active Competitor for the Feâ€“Nâ€“C Active Center for Oxygen Reduction Reaction in Acidic and Basic pH Conditions. ACS Applied Energy Materials, 2018, 1, 368-376. | 5.1 | 36 |
| 90 | Vapor-phase methylation of pyridine with methanol to 3-picoline over Zn1â^'xCoxFe2O4 (x=0, 0.2, 0.5, 0.8) Tj ETQq0 0 0 rgBT /Overlock 205, 11-18. | 4.3 | 35 |

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| 91 | Activated nitrogen doped graphene shell towards electrochemical oxygen reduction reaction by its encapsulation on Au nanoparticle (Au@N-Gr) in water-in-oil â€œnanoreactorsâ€• Journal of Materials Chemistry A, 2014, 2, 1383-1390. | 10.3 | 35 |
| 92 | A Distinctive PdCl<sub>2</sub>-Mediated Transformation of Fe-Based Metallogels into Metalâ€“Organic Frameworks. Crystal Growth and Design, 2014, 14, 3434-3437. | 3.0 | 35 |
| 93 | CoSe<sub>2</sub> Supported on Nitrogenâ€Doped Carbon Nanohorns as a Methanolâ€Tolerant Cathode for Airâ€Breathing Microlaminar Flow Fuel Cells. ChemElectroChem, 2015, 2, 1339-1345. | 3.4 | 35 |
| 94 | Electrochemically grown nanoporous MnO2 nanowalls on a porous carbon substrate with enhanced capacitance through faster ionic and electrical mobility. Chemical Communications, 2014, 50, 7188. | 4.1 | 34 |
| 95 | 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. Nanoscale, 2019, 11, 7893-7902. | 5.6 | 34 |
| 96 | Tuning the Performance of Low-Pt Polymer Electrolyte Membrane Fuel Cell Electrodes Derived from Fe<sub>2</sub>O<sub>3</sub>@Pt/C Coreâ€“Shell Catalyst Prepared by an in Situ Anchoring Strategy. Journal of Physical Chemistry C, 2012, 116, 7318-7326. | 3.1 | 33 |
| 97 | Trigol based reduction of graphite oxide to graphene with enhanced charge storage activity. Journal of Materials Chemistry, 2012, 22, 11140. | 6.7 | 33 |
| 98 | Hierarchically Nanoperforated Graphene as a High Performance Electrode Material for Ultracapacitors. Small, 2013, 9, 2801-2809. | 10.0 | 33 |
| 99 | Nitrogen-doped graphene interpenetrated 3D Ni-nanocages: efficient and stable water-to-dioxygen electrocatalysts. Nanoscale, 2014, 6, 13179-13187. | 5.6 | 33 |
| 100 | Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO<sub>2</sub> Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. ACS Omega, 2019, 4, 13465-13473. | 3.5 | 33 |
| 101 | Electrochemical preparation of nitrogen-doped graphene quantum dots and their size-dependent electrocatalytic activity for oxygen reduction. Bulletin of Materials Science, 2015, 38, 435-442. | 1.7 | 32 |
| 102 | High hydroxide conductivity in a chemically stable crystalline metalâ€“organic framework containing a water-hydroxide supramolecular chain. Chemical Communications, 2016, 52, 8459-8462. | 4.1 | 32 |
| 103 | Enhanced electrocatalytic performance of functionalized carbon nanotube electrodes for oxygen reduction in proton exchange membrane fuel cells. Physical Chemistry Chemical Physics, 2011, 13, 10312. | 2.8 | 31 |
| 104 | Dioxolanone-Anchored Poly(allyl ether)-Based Cross-Linked Dual-Salt Polymer Electrolytes for High-Voltage Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 567-579. | 8.0 | 31 |
| 105 | A rationally designed self-standing V<sub>2</sub>O<sub>5</sub> electrode for high voltage non-aqueous all-solid-state symmetric (2.0 V) and asymmetric (2.8 V) supercapacitors. Nanoscale, 2018, 10, 8741-8751. | 5.6 | 30 |
| 106 | Rylene Diimide-Based Alternate and Random Copolymers for Flexible Supercapacitor Electrode Materials with Exceptional Stability and High Power Density. Journal of Physical Chemistry C, 2019, 123, 2084-2093. | 3.1 | 30 |
| 107 | Nitrogenâ€Doped Graphene with a Threeâ€Dimensional Architecture Assisted by Carbon Nitride Tetrapods as an Efficient Metalâ€Free Electrocatalyst for Hydrogen Evolution. ChemElectroChem, 2017, 4, 2643-2652. | 3.4 | 29 |
| 108 | A comparative study on aniline alkylation activity using methanol and dimethyl carbonate as the alkylating agents over Znâ€“Coâ€“Fe ternary spinel systems. Applied Catalysis A: General, 2000, 201, L1-L8. | 4.3 | 27 |

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| 109 | Metalloporphyrin Two-Dimensional Polymers via Metal-Catalyst-Free Câ€“C Bond Formation for Efficient Catalytic Hydrogen Evolution. ACS Applied Energy Materials, 2018, 1, 6442-6450. | 5.1 | 27 |
| 110 | Selective N-monomethylation of aniline over Zn1âˆ’xNixFe2O4 (x=0, 0.2, 0.5, 0.8 and 1) type systems. Applied Catalysis A: General, 1999, 182, 327-336. | 4.3 | 25 |
| 111 | Selective N-methylation of aniline with dimethyl carbonate over Zn1âˆ’xCoxFe2O4 (x=0, 0.2, 0.5, 0.8 and) Tj ETQq1 1 0.784314 rgBT /O | 4.8 | 25 |
| 112 | Ex-situ dispersion of coreâ€“shell nanoparticles of Cuâ€“Pt on an in situ modified carbon surface and their enhanced electrocatalytic activities. Chemical Communications, 2011, 47, 3951. | 4.1 | 25 |
| 113 | Disordered Brownmillerite Ba<sub>2</sub>InCeO<sub>5+Î´</sub> with Enhanced Oxygen Reduction Activity. Chemistry of Materials, 2012, 24, 2823-2828. | 6.7 | 25 |
| 114 | 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. RSC Advances, 2013, 3, 11877. | 3.6 | 25 |
| 115 | Carbon nanofiberâ€“RuO2â€“poly(benzimidazole) ternary hybrids for improved supercapacitor performance. RSC Advances, 2013, 3, 2428. | 3.6 | 25 |
| 116 | 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. Nanoscale, 2017, 9, 9009-9017. | 5.6 | 25 |
| 117 | Layer-separated distribution of nitrogen doped graphene by wrapping on carbon nitride tetrapods for enhanced oxygen reduction reactions in acidic medium. Chemical Communications, 2014, 50, 13769-13772. | 4.1 | 24 |
| 118 | An In Situ Crossâ€Linked Nonaqueous Polymer Electrolyte for Zincâ€Metal Polymer Batteries and Hybrid Supercapacitors. Small, 2020, 16, e2002528. | 10.0 | 24 |
| 119 | Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters. Journal of Materials Chemistry B, 2017, 5, 8133-8142. | 5.8 | 23 |
| 120 | Single Cell Fabrication Towards the Realistic Evaluation of a CNTâ€Strung ZIFâ€Derived Electrocatalyst as a Cathode Material in Alkaline Fuel Cells and Metalâ€Air Batteries. ChemElectroChem, 2017, 4, 2928-2933. | 3.4 | 23 |
| 121 | [MoS<sub>4</sub>]<sup>2â€“</sup>-Intercalated NiCo-Layered Double Hydroxide Nanospikes: An Efficiently Synergized Material for Urine To Direct H<sub>2</sub> Generation. ACS Applied Materials & Interfaces, 2019, 11, 25917-25927. | 8.0 | 23 |
| 122 | Tuning the Functionality of a Carbon Nanofiberâ€“Ptâ€“RuO<sub>2</sub> System from Charge Storage to Electrocatalysis. Inorganic Chemistry, 2012, 51, 9766-9774. | 4.0 | 22 |
| 123 | Activity Modulated Low Platium Content Oxygen Reduction Electrocatalysts Prepared by Inducing Nano-Order Dislocations on Carbon Nanofiber through N<sub>2</sub>-Doping. Journal of Physical Chemistry C, 2012, 116, 14754-14763. | 3.1 | 22 |
| 124 | 1000-fold enhancement in proton conductivity of a MOF using post-synthetically anchored proton transporters. Scientific Reports, 2016, 6, 32489. | 3.3 | 22 |
| 125 | Preparation and investigations of ABPBI membrane for HT-PEMFC by immersion precipitation method. Journal of Membrane Science, 2018, 564, 211-217. | 8.2 | 22 |
| 126 | Hierarchical Nanoflower Arrays of Co<sub>9</sub>S<sub>8</sub>â€Ni<sub>3</sub>S<sub>2</sub> on Nickel Foam: Aâ€‰Highly Efficient Binderâ€Free Electrocatalyst for Overall Water Splitting. Chemistry - A European Journal, 2020, 26, 7900-7911. | 3.3 | 22 |

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| 127 | Title is missing!. Catalysis Letters, 2000, 65, 99-105. | 2.6 | 21 |
| 128 | Effect of B Site Coordination Environment in the ORR Activity in Disordered Brownmillerites Ba<sub>2</sub>In<sub>2â€“x</sub>Ce<sub>x</sub>O<sub>5+Î´</sub>. ACS Applied Materials & Interfaces, 2015, 7, 3041-3049. | 8.0 | 21 |
| 129 | Scalable Synthesis of Manganese-Doped Hydrated Vanadium Oxide as a Cathode Material for Aqueous Zinc-Metal Battery. ACS Applied Materials & Interfaces, 2020, 12, 48542-48552. | 8.0 | 21 |
| 130 | A NiFe layered double hydroxide-decorated N-doped entangled-graphene framework: a robust water oxidation electrocatalyst. Nanoscale Advances, 2020, 2, 1709-1717. | 4.6 | 21 |
| 131 | Facile synthesis of CNT interconnected PVP-ZIF-8 derived hierarchically porous Zn/N co-doped carbon frameworks for oxygen reduction. Nanoscale, 2021, 13, 6248-6258. | 5.6 | 21 |
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