

Rajith Illathvalappil

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,575
citations

471509

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477307

29
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docs citations

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times ranked

2875
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10667-10671. | 13.8 | 334 |
| 2 | Low Band Gap Benzimidazole COF Supported Ni ₃ N as Highly Active OER Catalyst. <i>Advanced Energy Materials</i> , 2016, 6, 1601189. | 19.5 | 182 |
| 3 | 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. | 30.8 | 156 |
| 4 | Imidazole-Linked Crystalline Two-Dimensional Polymer with Ultrahigh Proton-Conductivity. <i>Journal of the American Chemical Society</i> , 2019, 141, 14950-14954. | 13.7 | 148 |
| 5 | 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. | 8.0 | 139 |
| 6 | 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, 352-360. | 10.0 | 83 |
| 7 | Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie</i> , 2016, 128, 10825-10829. | 2.0 | 76 |
| 8 | Carbon Nanohorn-Derived Graphene Nanotubes as a Platinum-Free Fuel Cell Cathode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24256-24264. | 8.0 | 67 |
| 9 | New approach of blending polymeric ionic liquid with polybenzimidazole (PBI) for enhancing physical and electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14449. | 10.3 | 49 |
| 10 | 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. | 10.3 | 47 |
| 11 | 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, 16729-16736. | 5.6 | 36 |
| 12 | Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO ₂ Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2019, 4, 13465-13473. | 3.5 | 33 |
| 13 | 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. | 5.6 | 25 |
| 14 | 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, 13769-13772. | 4.1 | 24 |
| 15 | Preparation and investigations of ABPBI membrane for HT-PEMFC by immersion precipitation method. <i>Journal of Membrane Science</i> , 2018, 564, 211-217. | 8.2 | 22 |
| 16 | Hierarchical Nanoflower Arrays of Co ₉ S ₈ -Ni ₃ S ₂ on Nickel Foam: A Highly Efficient Binder-Free Electrocatalyst for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2020, 26, 7900-7911. | 3.3 | 22 |
| 17 | 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. | 2.8 | 19 |
| 18 | Layered TiO ₂ Nanosheet-Supported NiCo ₂ O ₄ Nanoparticles as Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemElectroChem</i> , 2018, 5, 4000-4007. | 3.4 | 18 |

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|----|---|-----|-----------|
| 19 | 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. | 4.6 | 16 |
| 20 | 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. | 5.1 | 15 |
| 21 | 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. | 2.8 | 15 |
| 22 | 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. | 1.5 | 12 |
| 23 | Water mediated proton conductance in a hydrogen-bonded Ni(<i>scp</i>)-bipyridine-glycoluril chloride self-assembled framework. <i>CrystEngComm</i> , 2018, 20, 1094-1100. | 2.6 | 11 |
| 24 | 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. | 1.5 | 8 |
| 25 | Synthesis of a Highly Electron-Deficient, Water-Stable, Large Ionic Box: Multielectron Accumulation and Proton Conductivity. <i>Organic Letters</i> , 2022, 24, 3038-3042. | 4.6 | 5 |
| 26 | Fe ³⁺ 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. | 2.6 | 4 |
| 27 | Understanding the electron transfer process in ZnO-naphthol azobenzoic acid composites from photophysical characterisation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22179-22187. | 2.8 | 3 |
| 28 | Co ₉ S ₈ 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. | 3.4 | 3 |
| 29 | Enhanced proton conductivity in amino acid based self-assembled non-porous hydrogen-bonded organic frameworks. <i>Chemical Communications</i> , 2022, , . | 4.1 | 2 |
| 30 | Ultra-high Ionic Conduction in Water-Stable Close-Packed Metal-Carbonate Frameworks. <i>Inorganic Chemistry</i> , 2017, 56, 9710-9715. | 4.0 | 1 |