Rajith Illathvalappil

List of Publications by Year
in descending order

30 papers	1,575 citations	471509 17 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	2875 citing authors

#	Article	IF	Citations
1	Enhanced proton conductivity in amino acid based self-assembled non-porous hydrogen-bonded organic frameworks. Chemical Communications, 2022, , .	4.1	2
2	Synthesis of a Highly Electron-Deficient, Water-Stable, Large Ionic Box: Multielectron Accumulation and Proton Conductivity. Organic Letters, 2022, 24, 3038-3042.	4.6	5
3	Hierarchical Nanoflower Arrays of Co₉S₈â€Ni₃S₂ on Nickel Foam: Aâ€‰Highly Efficient Binderâ€Free Electrocatalyst for Overall Water Splitting. Chemistry - A European Journal, 2020, 26, 7900-7911.	3.3	22
4	Template assisted synthesis of Ni,N co-doped porous carbon from Ni incorporated ZIF-8 frameworks for electrocatalytic oxygen reduction reaction. New Journal of Chemistry, 2020, 44, 12343-12354.	2.8	15
5	Co 9 S 8 Nanoparticleâ€Supported Nitrogenâ€doped Carbon as a Robust Catalyst for Oxygen Reduction Reaction in Both Acidic and Alkaline Conditions. ChemElectroChem, 2020, 7, 3123-3134.	3.4	3
6	Fe3+ stabilized 3D cross-linked glycine-melamine formaldehyde networks as precursor for highly efficient oxygen reduction catalyst in alkaline media. Materials Letters, 2020, 264, 127365.	2.6	4
7	Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO₂ Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. ACS Omega, 2019, 4, 13465-13473.	3.5	33
8	NiCo₂O₄ nanoarray on CNT sponge: a bifunctional oxygen electrode material for rechargeable Znâ€“air batteries. Nanoscale Advances, 2019, 1, 3243-3251.	4.6	16
9	Imidazole-Linked Crystalline Two-Dimensional Polymer with Ultrahigh Proton-Conductivity. Journal of the American Chemical Society, 2019, 141, 14950-14954.	13.7	148
10	Coexisting Few-Layer Assemblies of NiO and MoO₃ Deposited on Vulcan Carbon as an Efficient and Durable Electrocatalyst for Water Oxidation. ACS Applied Energy Materials, 2019, 2, 4987-4998.	5.1	15
11	Water mediated proton conductance in a hydrogen-bonded Ni(<scp>ii</scp>)-bipyridine-glycoluril chloride self-assembled framework. CrystEngComm, 2018, 20, 1094-1100.	2.6	11
12	Melamine formaldehydeâ€“metal organic gel interpenetrating polymer network derived intrinsic Feâ€“N-doped porous graphitic carbon electrocatalysts for oxygen reduction reaction. New Journal of Chemistry, 2018, 42, 18690-18701.	2.8	19
13	Layered TiO₂ Nanosheetâ€Supported NiCo₂O₄ Nanoparticles as Bifunctional Electrocatalyst for Overall Water Splitting. ChemElectroChem, 2018, 5, 4000-4007.	3.4	18
14	Preparation and investigations of ABPBI membrane for HT-PEMFC by immersion precipitation method. Journal of Membrane Science, 2018, 564, 211-217.	8.2	22
15	Morphological Ensembles of Nâ€Doped Porous Carbon Derived from ZIFâ€8/Feâ€Graphene Nanocomposites: Processing and Electrocatalytic Studies. ChemistrySelect, 2018, 3, 8688-8697.	1.5	8
16	Chitosan Intercalated Metal Organic Gel as a Green Precursor of Fe Entrenched and Fe Distributed N-Doped Mesoporous Graphitic Carbon for Oxygen Reduction Reaction. ChemistrySelect, 2017, 2, 8762-8770.	1.5	12
17	Ultrahigh Ionic Conduction in Water-Stable Close-Packed Metal-Carbonate Frameworks. Inorganic Chemistry, 2017, 56, 9710-9715.	4.0	1
18	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

#	Article	IF	Citations
19	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
20	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
21	Hydrogenâ€Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Protonâ€Conducting Materials. Angewandte Chemie, 2016, 128, 10825-10829.	2.0	76
22	Low Band Gap Benzimidazole COF Supported Ni₃N as Highly Active OER Catalyst. Advanced Energy Materials, 2016, 6, 1601189.	19.5	182
23	Understanding the electron transfer process in ZnOâ€“naphthol azobenzoic acid composites from photophysical characterisation. Physical Chemistry Chemical Physics, 2016, 18, 22179-22187.	2.8	3
24	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
25	Carbon Nanohorn-Derived Graphene Nanotubes as a Platinum-Free Fuel Cell Cathode. ACS Applied Materials & Interfaces, 2015, 7, 24256-24264.	8.0	67
26	Layer-separated MoS₂bearing reduced graphene oxide formed by an in situ intercalation-cum-anchoring route mediated by Co(OH)₂as a Pt-free electrocatalyst for oxygen reduction. Nanoscale, 2015, 7, 16729-16736.	5.6	36
27	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
28	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
29	New approach of blending polymeric ionic liquid with polybenzimidazole (PBI) for enhancing physical and electrochemical properties. Journal of Materials Chemistry A, 2014, 2, 14449.	10.3	49
30	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