

Sreekuttan M Unni

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2587965/publications.pdf>

Version: 2024-02-01

35
papers

1,696
citations

257450

24
h-index

345221

36
g-index

36
all docs

36
docs citations

36
times ranked

3022
citing authors

#	ARTICLE	IF	CITATIONS
1	Twoâ€inâ€One: Inherent Anhydrous and Waterâ€Assisted High Proton Conduction in a 3D Metalâ€Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2638-2642.	13.8	367
2	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.	6.7	159
3	Domain Size Manipulation of Perfluorinated Polymer Electrolytes by Sulfonic Acid-Functionalized MWCNTs To Enhance Fuel Cell Performance. <i>Langmuir</i> , 2009, 25, 8299-8305.	3.5	87
4	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
5	A 3D Hexaporous Carbon Assembled from Singleâ€Layer Graphene as High Performance Supercapacitor. <i>ChemSusChem</i> , 2012, 5, 2159-2164.	6.8	72
6	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
7	High Pt Utilization Electrodes for Polymer Electrolyte Membrane Fuel Cells by Dispersing Pt Particles Formed by a Preprecipitation Method on Carbon â€Polishedâ€with Polypyrrole. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14654-14661.	3.1	58
8	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, 13397-13404.	8.0	53
9	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
10	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.	10.3	46
11	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.	3.1	45
12	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.	2.8	45
13	Ptâ€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.	5.2	42
14	A copperâ€trimesic acid metalâ€organic framework incorporated sulfonated poly(ether ether ketone) based polymer electrolyte membrane for direct methanol fuel cells. <i>New Journal of Chemistry</i> , 2018, 42, 16758-16765.	2.8	40
15	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
16	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. <i>ACS Applied Energy Materials</i> , 2018, 1, 368-376.	5.1	36
17	CoSe ₂ Supported on Nitrogenâ€Doped Carbon Nanohorns as a Methanolâ€Tolerant Cathode for Airâ€Breathing Microlaminar Flow Fuel Cells. <i>ChemElectroChem</i> , 2015, 2, 1339-1345.	3.4	35
18	Trigol based reduction of graphite oxide to graphene with enhanced charge storage activity. <i>Journal of Materials Chemistry</i> , 2012, 22, 11140.	6.7	33

#	ARTICLE	IF	CITATIONS
19	Hierarchically Nanoperforated Graphene as a High Performance Electrode Material for Ultracapacitors. <i>Small</i> , 2013, 9, 2801-2809.	10.0	33
20	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.	3.4	29
21	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.	4.1	25
22	Disordered Brownmillerite $Ba_2InCeO_{5+\delta}$ with Enhanced Oxygen Reduction Activity. <i>Chemistry of Materials</i> , 2012, 24, 2823-2828.	6.7	25
23	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.	3.6	25
24	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
25	<i>In vitro</i> and <i>in silico</i> antifungal efficacy of nitrogen-doped carbon nanohorn (NCNH) against <i>Rhizoctonia solani</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 152-162.	3.5	20
26	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.	3.6	19
27	Direct synthesis of a carbon nanotube interpenetrated doped porous carbon alloy as a durable Pt-free electrocatalyst for the oxygen reduction reaction in an alkaline medium. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1524-1532.	4.9	16
28	In situ grown nickel nanoparticles in a calixarene nanoreactor on a graphene-MoS ₂ support for efficient water electrolysis. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1329-1338.	4.9	13
29	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.	3.6	11
30	Unitized Regenerative Alkaline Microfluidic Cell Based on Platinum Group Metal-Free Electrode Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 7397-7403.	5.1	11
31	Synergistic Dual-Atom Molecular Catalyst Derived from Low-Temperature Pyrolyzed Heterobimetallic Macrocyclic N ₄ Corrole Complex for Oxygen Reduction. <i>Small</i> , 2021, 17, e2103823.	10.0	11
32	Defect induced nitrogen reduction reaction of carbon nanomaterials. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3765-3790.	4.9	9
33	Sulfonated poly(ether ether ketone) reinforced with polystyrene sulfonic acid functionalized micelle templated mesoporous MCM-41 for direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20640-20649.	7.1	7
34	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
35	Functionalized Single-Walled Carbon Nanohorns to Reinforce Sulfonated Poly(ether ether ketone) Electrolyte for Direct Methanol Fuel Cells. <i>ChemElectroChem</i> , 2020, 7, 3632-3636.	3.4	2