Ranjith Bose

List of Publications by Year in descending order

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29 papers	1,066 citations	430442 18 h-index	476904 29 g-index
29 all docs	29 docs citations	29 times ranked	1572 citing authors

#	Article	IF	Citations
1	High Turnover Frequency of Hydrogen Evolution Reaction on Amorphous MoS₂ Thin Film Directly Grown by Atomic Layer Deposition. Langmuir, 2015, 31, 1196-1202.	1.6	183
2	Niâ€“Coâ€“TiO2 nanocomposite coating prepared by pulse and pulse reversal methods using acetate bath. Applied Surface Science, 2010, 257, 42-47.	3.1	87
3	Harvesting Electronic Waste for the Development of Highly Efficient Ecoâ€Đesign Electrodes for Electrocatalytic Water Splitting. Advanced Energy Materials, 2018, 8, 1802615.	10.2	80
4	Importance of Hydrophilic Pretreatment in the Hydrothermal Growth of Amorphous Molybdenum Sulfide for Hydrogen Evolution Catalysis. Langmuir, 2015, 31, 5220-5227.	1.6	72
5	Unveiling a binary metal selenide composite of CuSe polyhedrons/CoSe2 nanorods decorated graphene oxide as an active electrode material for high-performance hybrid supercapacitors. Chemical Engineering Journal, 2022, 427, 131535.	6.6	63
6	Co-catalytic Effects of CoS₂ on the Activity of the MoS₂ Catalyst for Electrochemical Hydrogen Evolution. Langmuir, 2017, 33, 5628-5635.	1.6	59
7	High performance multicomponent bifunctional catalysts for overall water splitting. Journal of Materials Chemistry A, 2020, 8, 13795-13805.	5.2	51
8	Co3Se4 nanosheets embedded on N-CNT as an efficient electroactive material for hydrogen evolution and supercapacitor applications. Journal of Industrial and Engineering Chemistry, 2018, 65, 62-71.	2.9	47
9	Highly porous, hierarchical microglobules of Co3O4 embedded N-doped carbon matrix for high performance asymmetric supercapacitors. Applied Surface Science, 2020, 529, 147147.	3.1	44
10	Unveiling the Redox Electrochemistry of MOFâ€Đerived fccâ€NiCo@GC Polyhedron as an Advanced Electrode Material for Boosting Specific Energy of the Supercapattery. Small, 2022, 18, e2107284.	5.2	43
11	Molybdenum Sulphoselenophosphide Spheroids as an Effective Catalyst for Hydrogen Evolution Reaction. Small, 2018, 14, 1703862.	5.2	37
12	Electrodeposition of Unary Oxide on a Bimetallic Hydroxide as a Highly Active and Stable Catalyst for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 16392-16400.	3.2	35
13	Comparative investigation of the molybdenum sulphide doped with cobalt and selenium towards hydrogen evolution reaction. Electrochimica Acta, 2018, 271, 211-219.	2.6	30
14	High performance, 3D-hierarchical CoS2/CoSe@C nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. Journal of Alloys and Compounds, 2020, 838, 155537.	2.8	30
15	ZIF-8 templated assembly of La3+-anchored ZnO distorted nano-hexagons as an efficient active photocatalyst for the detoxification of rhodamine B in water. Environmental Pollution, 2021, 272, 116018.	3.7	30
16	A Highly Effective, Stable Oxygen Evolution Catalyst Derived from Transition Metal Selenides and Phosphides. Particle and Particle Systems Characterization, 2018, 35, 1800135.	1.2	28
17	A hexagonal 2D ZIF-Co-L variant: Unusual role of graphene oxide on the water-regulated morphology of ZIF hybrid and their derived Co@N-doped carbon electrocatalyst for hydrogen evolution reaction. Chemical Engineering Journal, 2021, 426, 131270.	6.6	27
18	Nonaqueous liquid electrolytes based on novel 1-ethyl-3-methylimidazolium bis (nonafluorobutane-1-sulfonyl imidate) ionic liquid for energy storage devices. Journal of Materials Research and Technology, 2020, 9, 1251-1260.	2.6	19

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19	Biopolymer phytagel-derived porous nanocarbon as efficient electrode material for high-performance symmetric solid-state supercapacitors. Journal of Industrial and Engineering Chemistry, 2019, 80, 258-264.	2.9	17
20	Ternary Zn1-xNixSe nanostructures as efficient photocatalysts for detoxification of hazardous Congo red, methyl orange, and chrome yellow dyes in wastewater sources. Environmental Research, 2021, 201, 111587.	3.7	16
21	Self-Supportive Bimetallic Selenide Heteronanostructures as High-Efficiency Electro(pre)catalysts for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13114-13123.	3.2	15
22	Cobalt encapsulated in the nitrogen and sulfur co-doped carbon nanotube supported platinum for the oxygen reduction reaction catalyst. Carbon, 2018, 139, 656-665.	5.4	12
23	Fortification of Niâ€“Y2O3 nanocomposite coatings prepared by pulse and direct current methods. Ionics, 2011, 17, 495-501.	1.2	11
24	Influence of Phosphidation on CoSe₂ Catalyst for Hydrogen Evolution Reaction. ChemistrySelect, 2017, 2, 10661-10667.	0.7	9
25	Structure and electrochemical performances of co-substituted LiSm x La0.2-x Mn1.80O4 cathode materials for rechargeable lithium-ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 2183-2192.	1.2	8
26	Hybrid lithium-ion capacitors based on novel 1-butyl-3-methylimidazolium bis(nonafluorobutanesulfonyl imide) (BMImBNFSI) ionic liquid electrolytes: a detailed investigation of electrochemical and cycling behaviors. Journal of Materials Research and Technology, 2020, 9, 5216-5227.	2.6	7
27	Facile Nanostructured Composite Synthesis of Selenium and Molybdenum Chalcogenides/Carbon Nanotubes for Liâ€ion Batteries. Bulletin of the Korean Chemical Society, 2017, 38, 1347-1352.	1.0	4
28	Electrocatalysts: Molybdenum Sulphoselenophosphide Spheroids as an Effective Catalyst for Hydrogen Evolution Reaction (Small 8/2018). Small, 2018, 14, 1870034.	5.2	1
29	Bio-inspired proton conducting phytagel derived zwitterionic complex membranes for fuel cells. International Journal of Energy Research, 2020, 45, 17120.	2.2	1