

Jahangir Masud

List of Publications by Year in descending order

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32
papers

1,583
citations

304602

22
h-index

414303

32
g-index

33
all docs

33
docs citations

33
times ranked

2207
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel telluride as a bifunctional electrocatalyst for efficient water splitting in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7608-7622.	5.2	223
2	Cobalt Selenide Nanostructures: An Efficient Bifunctional Catalyst with High Current Density at Low Coverage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17292-17302.	4.0	156
3	Copper Selenides as High-Efficiency Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 4075-4083.	2.5	114
4	Textured NiSe ₂ Film: Bifunctional Electrocatalyst for Full Water Splitting at Remarkably Low Overpotential with High Energy Efficiency. <i>Scientific Reports</i> , 2017, 7, 2401.	1.6	104
5	CoNi ₂ Se ₄ as an efficient bifunctional electrocatalyst for overall water splitting. <i>Chemical Communications</i> , 2017, 53, 5412-5415.	2.2	92
6	A Molecular Ni ^{II} -complex Containing Tetrahedral Nickel Selenide Core as Highly Efficient Electrocatalyst for Water Oxidation. <i>ChemSusChem</i> , 2016, 9, 3128-3132.	3.6	80
7	Enhanced Electrocatalysis of Oxygen Reduction on Pt/TaO _x /GC. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25557-25567.	1.5	78
8	Phase Exploration and Identification of Multinary Transition-Metal Selenides as High-Efficiency Oxygen Evolution Electrocatalysts through Combinatorial Electrodeposition. <i>ACS Catalysis</i> , 2018, 8, 8273-8289.	5.5	76
9	Differential Capacitance at Au(111) in 1-Alkyl-3-methylimidazolium Tetrafluoroborate Based Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19797-19804.	1.5	71
10	Facile synthesis of Ni ₃ B/rGO nanocomposite as an efficient electrocatalyst for the oxygen evolution reaction in alkaline media. <i>Electrochemistry Communications</i> , 2018, 86, 121-125.	2.3	62
11	A non-enzymatic glucose sensor based on a CoNi ₂ Se ₄ /rGO nanocomposite with ultrahigh sensitivity at low working potential. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2338-2348.	2.9	58
12	Co ₇ Se ₈ Nanostructures as Catalysts for Oxygen Reduction Reaction with High Methanol Tolerance. <i>ACS Energy Letters</i> , 2016, 1, 27-31.	8.8	45
13	Electrocatalytic oxidation of methanol at tantalum oxide-modified Pt electrodes. <i>Journal of Power Sources</i> , 2012, 220, 399-404.	4.0	38
14	Cobalt Telluride: A Highly Efficient Trifunctional Electrocatalyst for Water Splitting and Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2021, 4, 8158-8174.	2.5	36
15	FeNi ₂ Se ₄ @ Reduced Graphene Oxide Nanocomposite: Enhancing Bifunctional Electrocatalytic Activity for Oxygen Evolution and Reduction through Synergistic Effects. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700086.	2.7	35
16	Enhanced electrooxidation of formic acid at Ta ₂ O ₅ -modified Pt electrode. <i>Electrochemistry Communications</i> , 2011, 13, 86-89.	2.3	34
17	Electrochemical sensor based on CuSe for determination of dopamine. <i>Mikrochimica Acta</i> , 2020, 187, 440.	2.5	34
18	Understanding the Structural Evolution of a Nickel Chalcogenide Electrocatalyst Surface for Water Oxidation. <i>Energy & Fuels</i> , 2021, 35, 4387-4403.	2.5	33

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19	Selective electroreduction of CO ₂ to carbon-rich products with a simple binary copper selenide electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7150-7161.	5.2	32
20	A Rh _x S _y /C Catalyst for the Hydrogen Oxidation and Hydrogen Evolution Reactions in HBr. <i>Journal of the Electrochemical Society</i> , 2015, 162, F455-F462.	1.3	31
21	Enhancing electrocatalytic activity of bifunctional Ni ₃ Se ₂ for overall water splitting through etching-induced surface nanostructuring. <i>Journal of Materials Research</i> , 2016, 31, 2888-2896.	1.2	26
22	Facile one-pot synthesis of NiCo ₂ Se ₄ -rGO on Ni foam for high performance hybrid supercapacitors. <i>RSC Advances</i> , 2019, 9, 37939-37946.	1.7	23
23	Ultrasensitive and Highly Selective Ni ₃ Te ₂ as a Nonenzymatic Glucose Sensor at Extremely Low Working Potential. <i>ACS Omega</i> , 2019, 4, 11152-11162.	1.6	19
24	Nanostructured copper selenide as an ultrasensitive and selective non-enzymatic glucose sensor. <i>Materials Advances</i> , 2021, 2, 927-932.	2.6	18
25	Kinetics of oxygen reduction reaction at electrochemically fabricated tin-palladium bimetallic electrocatalyst in acidic media. <i>Electrochimica Acta</i> , 2010, 56, 285-290.	2.6	16
26	In situ fabricated iodine-adlayer assisted selective electrooxidation of uric acid in alkaline media. <i>Electrochimica Acta</i> , 2008, 54, 316-321.	2.6	14
27	A Molecular Tetrahedral Cobalt-Seleno-Based Complex as an Efficient Electrocatalyst for Water Splitting. <i>Molecules</i> , 2021, 26, 945.	1.7	13
28	Catalytic Electrooxidation of Formaldehyde at Ta ₂ O ₅ -modified Pt Electrodes. <i>Chemistry Letters</i> , 2011, 40, 252-254.	0.7	12
29	Synthesis and Characterization of Rh _x S _y /C Catalysts for HOR/HER in HBr. <i>ECS Transactions</i> , 2014, 58, 37-43.	0.3	3
30	A Molecular Ni-complex Containing Tetrahedral Nickel Selenide Core as Highly Efficient Electrocatalyst for Water Oxidation. <i>ChemSusChem</i> , 2016, 9, 3123-3123.	3.6	3
31	Magn@li TiO ₂ as a High Durability Support for the Proton Exchange Membrane (PEM) Fuel Cell Catalysts. <i>Energies</i> , 2022, 15, 4437.	1.6	3
32	Low Temperature Electrochemical Extraction of Rare Earth Metals From Lignite Coal: An Environmentally Benign and Energy Efficient Method. <i>Journal of the Electrochemical Society</i> , 2022, 169, 023503.	1.3	1