

Kamran Akbar

List of Publications by Year in descending order

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32
papers

1,182
citations

361413

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docs citations

33
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Hydrogen Evolution Reaction Performance using MoS ₂ WS ₂ Heterostructures by Physicochemical Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 8400-8409.	6.7	111
2	Direct synthesis of thickness-tunable MoS ₂ quantum dot thin layers: Optical, structural and electrical properties and their application to hydrogen evolution. Nano Energy, 2017, 35, 101-114.	16.0	99
3	Bifunctional Electrodeposited 3D NiCoSe ₂ /Nickel Foam Electrocatalysts for Its Applications in Enhanced Oxygen Evolution Reaction and for Hydrazine Oxidation. ACS Sustainable Chemistry and Engineering, 2018, 6, 7735-7742.	6.7	87
4	Carbon Dots for Photocatalytic Degradation of Aqueous Pollutants: Recent Advancements. Advanced Optical Materials, 2021, 9, 2100532.	7.3	80
5	Influence of an Al ₂ O ₃ interlayer in a directly grown graphene-silicon Schottky junction solar cell. Carbon, 2018, 132, 157-164.	10.3	78
6	Superaerophobic graphene nano-hills for direct hydrazine fuel cells. NPG Asia Materials, 2017, 9, e378-e378.	7.9	64
7	Iridium on vertical graphene as an all-round catalyst for robust water splitting reactions. Journal of Materials Chemistry A, 2019, 7, 20590-20596.	10.3	61
8	Enhanced photoresponse of ZnO quantum dot-decorated MoS ₂ thin films. RSC Advances, 2017, 7, 16890-16900.	3.6	59
9	Design of Basal Plane Edges in Metal-Doped Nanostripes-Structured MoSe ₂ Atomic Layers To Enhance Hydrogen Evolution Reaction Activity. ACS Sustainable Chemistry and Engineering, 2019, 7, 458-469.	6.7	58
10	Induced Superaerophobicity onto a Non-superaerophobic Catalytic Surface for Enhanced Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 43674-43680.	8.0	37
11	Chrysanthemum-Like CoP Nanostructures on Vertical Graphene Nanohills as Versatile Electrocatalysts for Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 4625-4630.	6.7	37
12	WS ₂ /CoSe ₂ heterostructure: A designed structure as catalysts for enhanced hydrogen evolution performance. Journal of Industrial and Engineering Chemistry, 2018, 65, 167-174.	5.8	34
13	Synthesis, structural characterization, DNA binding and antioxidant potency of new ferrocene incorporated acyl ureas. Journal of Organometallic Chemistry, 2015, 797, 131-139.	1.8	33
14	Fabrication of MoSe ₂ decorated three-dimensional graphene composites structure as a highly stable electrocatalyst for improved hydrogen evolution reaction. Renewable Energy, 2019, 143, 1659-1669.	8.9	32
15	Synthesis, chemical characterization, DNA binding and antioxidant studies of ferrocene incorporated selenoure. Journal of Molecular Structure, 2013, 1048, 367-374.	3.6	31
16	Molecular beam epitaxy of large-area SnSe ₂ with monolayer thickness fluctuation. 2D Materials, 2017, 4, 014006.	4.4	27
17	Synthesis of MoS ₂ (1-x)Se _{2x} and WS ₂ (1-x)Se _{2x} alloys for enhanced hydrogen evolution reaction performance. Inorganic Chemistry Frontiers, 2017, 4, 2068-2074.	6.0	27
18	Facile and cost-effective growth of MoS ₂ on 3D porous graphene-coated Ni foam for robust and stable hydrogen evolution reaction. Journal of Alloys and Compounds, 2019, 788, 267-276.	5.5	27

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19	New homobimetallic organotin(IV) dithiocarbamates as potent antileishmanial agents. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3414-3430.	2.2	25
20	WS(1âˆ™x)Sex Nanoparticles Decorated Three-Dimensional Graphene on Nickel Foam: A Robust and Highly Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>Nanomaterials</i> , 2018, 8, 929.	4.1	24
21	A highly sensitive enzymeless glucose sensor based on 3D grapheneâ€™Cu hybrid electrodes. <i>New Journal of Chemistry</i> , 2015, 39, 7481-7487.	2.8	21
22	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. <i>ACS Omega</i> , 2018, 3, 5799-5807.	3.5	20
23	Hydrophobic Surface Treatment and Interrupted Atomic Layer Deposition for Highly Resistive Al₂O₃ Films on Graphene. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29637-29641.	8.0	16
24	High-Å, dielectric oxide as an interfacial layer with enhanced photo-generation for Gr/Si solar cells. <i>Carbon</i> , 2017, 125, 56-62.	10.3	16
25	Surface spin accumulation due to the inverse spin Hall effect in WS₂ crystals. <i>2D Materials</i> , 2019, 6, 011007.	4.4	15
26	Comparative DNA binding and antioxidant studies of acetyl and benzoyl substituted ferrocene incorporated selenoureas. <i>Russian Journal of Electrochemistry</i> , 2015, 51, 198-208.	0.9	13
27	Fabrication of Robust Hydrogen Evolution Reaction Electrocatalyst Using Ag ₂ Se by Vacuum Evaporation. <i>Nanomaterials</i> , 2019, 9, 1460.	4.1	12
28	Cu/MoS₂/ITO based hybrid structure for catalysis of hydrazine oxidation. <i>RSC Advances</i> , 2015, 5, 15374-15378.	3.6	11
29	Design and optimization of cobalt-encapsulating vertical graphene nano-hills for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17046-17052.	10.3	11
30	Experimental and theoretical insights to demonstrate the hydrogen evolution activity of layered platinum dichalcogenides electrocatalysts. <i>Journal of Materials Research and Technology</i> , 2021, 12, 385-398.	5.8	11
31	Probing of ferrocenylanilines on model micelle/reverse micelle membrane and their enhanced reactivity for reactive oxidants. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4334.	3.5	4
32	Spectroscopic, Electrochemical, and <i>In Silico</i> Characterization of Complex Formed between 2-Ferrocenylbenzoic Acid and DNA. <i>Journal of Chemistry</i> , 2016, 2016, 1-8.	1.9	1