

# Kamran Akbar

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,182  
citations

361413

20  
h-index

414414

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1775  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Carbon Dots for Photocatalytic Degradation of Aqueous Pollutants: Recent Advancements. <i>Advanced Optical Materials</i> , 2021, 9, 2100532.	7.3	80
3	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
4	Fabrication of Robust Hydrogen Evolution Reaction Electrocatalyst Using Ag <sub>2</sub> Se by Vacuum Evaporation. <i>Nanomaterials</i> , 2019, 9, 1460.	4.1	12
5	Iridium on vertical graphene as an all-round catalyst for robust water splitting reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20590-20596.	10.3	61
6	Fabrication of MoSe <sub>2</sub> decorated three-dimensional graphene composites structure as a highly stable electrocatalyst for improved hydrogen evolution reaction. <i>Renewable Energy</i> , 2019, 143, 1659-1669.	8.9	32
7	Facile and cost-effective growth of MoS <sub>2</sub> on 3D porous graphene-coated Ni foam for robust and stable hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2019, 788, 267-276.	5.5	27
8	Chrysanthemum-Like CoP Nanostructures on Vertical Graphene Nanohills as Versatile Electrocatalysts for Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4625-4630.	6.7	37
9	Surface spin accumulation due to the inverse spin Hall effect in WS <sub>2</sub> crystals. <i>2D Materials</i> , 2019, 6, 011007.	4.4	15
10	Design of Basal Plane Edges in Metal-Doped Nanostripes-Structured MoSe <sub>2</sub> Atomic Layers To Enhance Hydrogen Evolution Reaction Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 458-469.	6.7	58
11	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
12	Influence of an Al <sub>2</sub> O <sub>3</sub> interlayer in a directly grown graphene-silicon Schottky junction solar cell. <i>Carbon</i> , 2018, 132, 157-164.	10.3	78
13	WS <sub>2</sub> /CoSe <sub>2</sub> heterostructure: A designed structure as catalysts for enhanced hydrogen evolution performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 167-174.	5.8	34
14	WS(1-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
15	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. <i>ACS Omega</i> , 2018, 3, 5799-5807.	3.5	20
16	Bifunctional Electrodeposited 3D NiCoSe <sub>2</sub> /Nickel Foam Electrocatalysts for Its Applications in Enhanced Oxygen Evolution Reaction and for Hydrazine Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7735-7742.	6.7	87
17	Improved Hydrogen Evolution Reaction Performance using MoS <sub>2</sub> –WS <sub>2</sub> Heterostructures by Physicochemical Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8400-8409.	6.7	111
18	Superaerophobic graphene nano-hills for direct hydrazine fuel cells. <i>NPG Asia Materials</i> , 2017, 9, e378-e378.	7.9	64

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19	Direct synthesis of thickness-tunable MoS <sub>2</sub> quantum dot thin layers: Optical, structural and electrical properties and their application to hydrogen evolution. <i>Nano Energy</i> , 2017, 35, 101-114.	16.0	99
20	Enhanced photoresponse of ZnO quantum dot-decorated MoS <sub>2</sub> thin films. <i>RSC Advances</i> , 2017, 7, 16890-16900.	3.6	59
21	Molecular beam epitaxy of large-area SnSe with monolayer thickness fluctuation. <i>2D Materials</i> , 2017, 4, 014006.	4.4	27
22	Synthesis of MoS <sub>2</sub> (1-x)Se <sub>2x</sub> and WS <sub>2</sub> (1-x)Se <sub>2x</sub> alloys for enhanced hydrogen evolution reaction performance. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 2068-2074.	6.0	27
23	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
24	Induced Superaerophobicity onto a Non-superaerophobic Catalytic Surface for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43674-43680.	8.0	37
25	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
26	Hydrophobic Surface Treatment and Interrupted Atomic Layer Deposition for Highly Resistive Al <sub>2</sub> O <sub>3</sub> Films on Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29637-29641.	8.0	16
27	Cu/MoS <sub>2</sub> /ITO based hybrid structure for catalysis of hydrazine oxidation. <i>RSC Advances</i> , 2015, 5, 15374-15378.	3.6	11
28	A highly sensitive enzymeless glucose sensor based on 3D graphene-Cu hybrid electrodes. <i>New Journal of Chemistry</i> , 2015, 39, 7481-7487.	2.8	21
29	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
30	Synthesis, structural characterization, DNA binding and antioxidant potency of new ferrocene incorporated acyl ureas. <i>Journal of Organometallic Chemistry</i> , 2015, 797, 131-139.	1.8	33
31	New homobimetallic organotin(IV) dithiocarbamates as potent antileishmanial agents. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3414-3430.	2.2	25
32	Synthesis, chemical characterization, DNA binding and antioxidant studies of ferrocene incorporated selenoure. <i>Journal of Molecular Structure</i> , 2013, 1048, 367-374.	3.6	31