

Tofik Ahmed Shifa

List of Publications by Citations

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44
papers

3,146
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45
ext. papers

3,749
ext. citations

13.6
avg, IF

5.42
L-index

#	Paper	IF	Citations
44	Recent advances in transition-metal dichalcogenide based nanomaterials for water splitting. <i>Nanoscale</i> , 2015 , 7, 19764-88	7.7	263
43	Selenium-Enriched Nickel Selenide Nanosheets as a Robust Electrocatalyst for Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6919-24	16.4	236
42	Earth abundant materials beyond transition metal dichalcogenides: A focus on electrocatalyzing hydrogen evolution reaction. <i>Nano Energy</i> , 2019 , 58, 244-276	17.1	176
41	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. <i>Chemical Society Reviews</i> , 2018 , 47, 6296-6341	58.5	145
40	Two-Dimensional Non-Layered Materials: Synthesis, Properties and Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1603254	15.6	124
39	High-performance, multifunctional devices based on asymmetric van der Waals heterostructures. <i>Nature Electronics</i> , 2018 , 1, 356-361	28.4	123
38	Nonvolatile infrared memory in MoS/PbS van der Waals heterostructures. <i>Science Advances</i> , 2018 , 4, eaap7916	14.3	106
37	Interface Engineered WxC@WS ₂ Nanostructure for Enhanced Hydrogen Evolution Catalysis. <i>Advanced Functional Materials</i> , 2017 , 27, 1605802	15.6	100
36	Synthesis, properties and applications of 2D layered MX (M = Ga, In; X = S, Se, Te) materials. <i>Nanoscale</i> , 2016 , 8, 16802-16818	7.7	100
35	Enhanced Electrochemical H ₂ Evolution by Few-Layered Metallic WS ₂ (1-x)Se _{2x} Nanoribbons. <i>Advanced Functional Materials</i> , 2015 , 25, 6077-6083	15.6	98
34	Designing the shape evolution of SnSe ₂ nanosheets and their optoelectronic properties. <i>Nanoscale</i> , 2015 , 7, 17375-80	7.7	96
33	Ultrathin Single-Crystalline CdTe Nanosheets Realized via Van der Waals Epitaxy. <i>Advanced Materials</i> , 2017 , 29, 1703122	24	90
32	CoS(2x)Se(2(1-x)) nanowire array: an efficient ternary electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , 2016 , 8, 4699-704	7.7	89
31	High Crystal Quality 2D Manganese Phosphorus Trichalcogenide Nanosheets and their Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2018 , 28, 1800548	15.6	86
30	Integrated High-Performance Infrared Phototransistor Arrays Composed of Nonlayered PbS-MoS Heterostructures with Edge Contacts. <i>Nano Letters</i> , 2016 , 16, 6437-6444	11.5	79
29	Ultrathin Magnetic 2D Single-Crystal CrSe. <i>Advanced Materials</i> , 2019 , 31, e1900056	24	78
28	A vertical-oriented WS ₂ nanosheet sensitized by graphene: an advanced electrocatalyst for hydrogen evolution reaction. <i>Nanoscale</i> , 2015 , 7, 14760-5	7.7	78

27	Heterostructures Based on 2D Materials: A Versatile Platform for Efficient Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1804828	24	78
26	The Role of Active Oxide Species for Electrochemical Water Oxidation on the Surface of 3d-Metal Phosphides. <i>Advanced Energy Materials</i> , 2018 , 8, 1703290	21.8	77
25	Epitaxial 2D PbS Nanoplates Arrays with Highly Efficient Infrared Response. <i>Advanced Materials</i> , 2016 , 28, 8051-8057	24	77
24	High-Yield Production of Monolayer FePS Quantum Sheets via Chemical Exfoliation for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1707433	24	75
23	Edge-Epitaxial Growth of 2D NbS ₂ -WS ₂ Lateral Metal-Semiconductor Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1803665	24	72
22	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. <i>Nano Energy</i> , 2017 , 40, 673-680	17.1	71
21	Configuration-Dependent Electrically Tunable Van der Waals Heterostructures Based on MoTe ₂ /MoS ₂ . <i>Advanced Functional Materials</i> , 2016 , 26, 5499-5506	15.6	68
20	An efficient ternary CoPSe nanowire array for overall water splitting. <i>Nanoscale</i> , 2017 , 9, 3995-4001	7.7	63
19	Hierarchical MnO ₂ /activated carbon cloth electrode prepared by synchronized electrochemical activation and oxidation for flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019 , 372, 1047-1055	14.7	61
18	Efficient Catalysis of Hydrogen Evolution Reaction from WS ₂ Nanoribbons. <i>Small</i> , 2017 , 13, 1603706	11	50
17	Confined Catalysis: Progress and Prospects in Energy Conversion. <i>Advanced Energy Materials</i> , 2019 , 9, 1902307	21.8	50
16	Engineering the Electronic Structure of 2D WS ₂ Nanosheets Using Co Incorporation as Co _x W _(1-x) S ₂ for Conspicuously Enhanced Hydrogen Generation. <i>Small</i> , 2016 , 12, 3802-9	11	47
15	Ultrafast and ultrasensitive phototransistors based on few-layered HfSe ₂ . <i>Applied Physics Letters</i> , 2016 , 109, 213105	3.4	44
14	Strong electrically tunable MoTe ₂ /graphene van der Waals heterostructures for high-performance electronic and optoelectronic devices. <i>Applied Physics Letters</i> , 2016 , 109, 193111	3.4	39
13	Multifunctional tunneling devices based on graphene/h-BN/MoSe ₂ van der Waals heterostructures. <i>Applied Physics Letters</i> , 2017 , 110, 173507	3.4	38
12	Efficient Photocatalytic Hydrogen Evolution via Band Alignment Tailoring: Controllable Transition from Type-I to Type-II. <i>Small</i> , 2017 , 13, 1702163	11	34
11	Dendritic growth of monolayer ternary WSe ₂ flakes for enhanced hydrogen evolution reaction. <i>Nanoscale</i> , 2017 , 9, 5641-5647	7.7	27
10	Au plasmonics in a WS ₂ -Au-CuInS ₂ photocatalyst for significantly enhanced hydrogen generation. <i>Applied Physics Letters</i> , 2015 , 107, 223902	3.4	23

9	Carbon dots decorated vertical SnS ₂ nanosheets for efficient photocatalytic oxygen evolution. <i>Applied Physics Letters</i> , 2016 , 109, 053905	3-4	18
8	Strongly coupled van der Waals heterostructures for high-performance infrared phototransistor. <i>Applied Physics Letters</i> , 2019 , 114, 103501	3-4	14
7	In Situ-Generated Oxide in Sn-Doped Nickel Phosphide Enables Ultrafast Oxygen Evolution. <i>ACS Catalysis</i> , 2021 , 11, 4520-4529	13-1	13
6	Hierarchical porous carbon foam supported on carbon cloth as high-performance anodes for aqueous supercapacitors. <i>Journal of Power Sources</i> , 2019 , 439, 227066	8-9	12
5	Few-layered CuInP ₂ S ₆ nanosheet with sulfur vacancy boosting photocatalytic hydrogen evolution. <i>CrystEngComm</i> , 2021 , 23, 591-598	3-3	10
4	Hierarchically heterostructured metal hydr(oxy)oxides for efficient overall water splitting. <i>Nanoscale</i> , 2019 , 11, 11736-11743	7-7	9
3	Insight into the role of interfacial reconstruction of manganese oxides toward enhanced electrochemical capacitors. <i>Chemical Engineering Journal</i> , 2020 , 388, 124293	14-7	4
2	Controllable Synthesis of 2D Nonlayered Cr ₂ S ₃ Nanosheets and Their Electrocatalytic Activity Toward Oxygen Evolution Reaction. <i>Frontiers in Chemical Engineering</i> , 2021 , 3,	1	3
1	Confined Catalysis: Progress and Prospects in Energy Conversion (Adv. Energy Mater. 40/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970158	21-8	2