

Wenzhe Niu

List of Publications by Year in descending order

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16
papers

346
citations

933447

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996975

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16
docs citations

16
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Extended Light Harvesting with Dual Cu ₂ O-Based Photocathodes for High Efficiency Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1702323.	19.5	93
2	The crystalline/amorphous contact in Cu ₂ O/Ta ₂ O ₅ heterostructures: increasing its sunlight-driven overall water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2732-2738.	10.3	41
3	Photoresponse enhancement of Cu ₂ O solar cell with sulfur-doped ZnO buffer layer to mediate the interfacial band alignment. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 717-723.	6.2	28
4	Interfacial study of Cu ₂ O/Ga ₂ O ₃ /AZO/TiO ₂ photocathode for water splitting fabricated by pulsed laser deposition. <i>Catalysis Science and Technology</i> , 2017, 7, 1602-1610.	4.1	26
5	Highly conductive thin films of nonmetal F and B co-doped ZnO on flexible substrates: Experiment and first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2017, 697, 156-160.	5.5	25
6	<i>Operando</i> deconvolution of photovoltaic and electrocatalytic performance in ALD TiO ₂ protected water splitting photocathodes. <i>Chemical Science</i> , 2018, 9, 6062-6067.	7.4	22
7	Surface modification and stoichiometry control of Cu ₂ O/SnO ₂ heterojunction solar cell by an ultrathin MgO tunneling layer. <i>Journal of Alloys and Compounds</i> , 2019, 779, 387-393.	5.5	20
8	Crystal orientation-dependent etching and trapping in thermally-oxidised Cu ₂ O photocathodes for water splitting. <i>Energy and Environmental Science</i> , 2022, 15, 2002-2010.	30.8	20
9	The effect of sulfur on the electrical properties of S and N co-doped ZnO thin films: experiment and first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16705-16708.	2.8	18
10	Structural and optical properties of ZnSO alloy thin films with different S contents grown by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2014, 582, 535-539.	5.5	15
11	Interfacial Dipole Layer Enables High-Performance Heterojunctions for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2022, 7, 1392-1402.	17.4	11
12	Thiol-Amine-Based Solution Processing of Cu ₂ S Thin Films for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2021, 14, 3967-3974.	6.8	10
13	Optimization of photoelectrochemical performance in Pt-modified p-Cu ₂ O/n-Cu ₂ O nanocomposite. <i>Nanotechnology</i> , 2018, 29, 145402.	2.6	7
14	Interaction of H and F atoms—Origin of the high conductive stability of hydrogen-incorporated F-doped ZnO thin films. <i>Thin Solid Films</i> , 2015, 589, 85-89.	1.8	6
15	Improving the photovoltaic performance of the all-solid-state TiO ₂ NR/CuInS ₂ solar cell by hydrogen plasma treatment. <i>Nanotechnology</i> , 2018, 29, 275402.	2.6	4
16	Valence-band offset of n-Zn _{0.8} Mg _{0.2} O/p-Ni _{0.8} Mg _{0.2} O heterojunction with tunable bandgaps of both sides measured by X-ray photoelectron spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 239-242.	2.3	0