

# Wenzhe Niu

## List of Publications by Year in descending order

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16  
papers

346  
citations

933447

10  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal orientation-dependent etching and trapping in thermally-oxidised Cu <sub>2</sub> O photocathodes for water splitting. <i>Energy and Environmental Science</i> , 2022, 15, 2002-2010.	30.8	20
2	Interfacial Dipole Layer Enables High-Performance Heterojunctions for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2022, 7, 1392-1402.	17.4	11
3	Thiolâ€Amineâ€Based Solution Processing of Cu <sub>2</sub> S Thin Films for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2021, 14, 3967-3974.	6.8	10
4	Surface modification and stoichiometry control of Cu <sub>2</sub> O/SnO <sub>2</sub> heterojunction solar cell by an ultrathin MgO tunneling layer. <i>Journal of Alloys and Compounds</i> , 2019, 779, 387-393.	5.5	20
5	Improving the photovoltaic performance of the all-solid-state TiO <sub>2</sub> /NR/CuInS <sub>2</sub> solar cell by hydrogen plasma treatment. <i>Nanotechnology</i> , 2018, 29, 275402.	2.6	4
6	Optimization of photoelectrochemical performance in Pt-modified p-Cu <sub>2</sub> O/n-Cu <sub>2</sub> O nanocomposite. <i>Nanotechnology</i> , 2018, 29, 145402.	2.6	7
7	Extended Light Harvesting with Dual Cu <sub>2</sub> Oâ€Based Photocathodes for High Efficiency Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1702323.	19.5	93
8	<i>Operando</i> deconvolution of photovoltaic and electrocatalytic performance in ALD TiO <sub>2</sub> protected water splitting photocathodes. <i>Chemical Science</i> , 2018, 9, 6062-6067.	7.4	22
9	Interfacial study of Cu <sub>2</sub> O/Ga <sub>2</sub> O <sub>3</sub> /AZO/TiO <sub>2</sub> photocathode for water splitting fabricated by pulsed laser deposition. <i>Catalysis Science and Technology</i> , 2017, 7, 1602-1610.	4.1	26
10	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
11	The crystalline/amorphous contact in Cu <sub>2</sub> O/Ta <sub>2</sub> O <sub>5</sub> heterostructures: increasing its sunlight-driven overall water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2732-2738.	10.3	41
12	Photoresponse enhancement of Cu <sub>2</sub> 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
13	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
14	Interaction of H and F atomsâ€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	Valence-band offset of n-Zn <sub>0.8</sub> Mg <sub>0.2</sub> O/p-Ni <sub>0.8</sub> Mg <sub>0.2</sub> 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
16	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