

Xuan Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

2,120
citations

23
h-index

39
g-index

39
ext. papers

3,032
ext. citations

9
avg, IF

5.8
L-index

#	Paper	IF	Citations
35	Towards sustainable saline agriculture: Interfacial solar evaporation for simultaneous seawater desalination and saline soil remediation.. <i>Water Research</i> , 2022 , 212, 118099	12.5	16
34	A biomimetic interfacial solar evaporator for heavy metal soil remediation. <i>Chemical Engineering Journal</i> , 2022 , 435, 134793	14.7	3
33	A Hollow and Compressible 3D Photothermal Evaporator for Highly Efficient Solar Steam Generation without Energy Loss. <i>Solar Rrl</i> , 2021 , 5, 2100053	7.1	37
32	Dual-Zone Photothermal Evaporator for Antisalt Accumulation and Highly Efficient Solar Steam Generation. <i>Advanced Functional Materials</i> , 2021 , 31, 2102618	15.6	69
31	Same materials, bigger output: A reversibly transformable 2DBD photothermal evaporator for highly efficient solar steam generation. <i>Nano Energy</i> , 2021 , 79, 105477	17.1	87
30	All-Cold Evaporation under One Sun with Zero Energy Loss by Using a Heatsink Inspired Solar Evaporator. <i>Advanced Science</i> , 2021 , 8, 2002501	13.6	97
29	Enhancing solar steam generation using a highly thermally conductive evaporator support. <i>Science Bulletin</i> , 2021 , 66, 2479-2479	10.6	41
28	Stackable nickel@cobalt@polydopamine nanosheet based photothermal sponges for highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11665-11673	13	91
27	Graphene and Rice-Straw-Fiber-Based 3D Photothermal Aerogels for Highly Efficient Solar Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15279-15287	9.5	146
26	Boosting solar steam generation by structure enhanced energy management. <i>Science Bulletin</i> , 2020 , 65, 1380-1388	10.6	109
25	Light-Sheet Skew Ray-Enhanced Localized Surface Plasmon Resonance-Based Chemical Sensing. <i>ACS Sensors</i> , 2020 , 5, 127-132	9.2	1
24	A general method for selectively coating photothermal materials on 3D porous substrate surfaces towards cost-effective and highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24703-24709	13	30
23	A cobalt oxide@polydopamine-reduced graphene oxide-based 3D photothermal evaporator for highly efficient solar steam generation. <i>Tungsten</i> , 2020 , 2, 423-432	4.6	14
22	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. <i>Nano Energy</i> , 2020 , 78, 105269	17.1	101
21	A photothermal reservoir for highly efficient solar steam generation without bulk water. <i>Science Bulletin</i> , 2019 , 64, 1625-1633	10.6	114
20	Optical hygrometer using light-sheet skew-ray probed multimode fiber with polyelectrolyte coating. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126685	8.5	4
19	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. <i>Materials Today Energy</i> , 2019 , 12, 277-296	7	131

18	Light-Sheet Skew-Ray Enhanced Pump-Absorption for Sensing. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2140-2146	4	3
17	A flexible photothermal cotton-CuS nanocage-agarose aerogel towards portable solar steam generation. <i>Nano Energy</i> , 2019 , 56, 708-715	17.1	210
16	Evaporation above a bulk water surface using an oil lamp inspired highly efficient solar-steam generation strategy. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12267-12274	13	125
15	Recent Progress in Advanced Humidity Sensors. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252008.3	8.3	103
14	Photodetector based on Vernier-Enhanced Fabry-Perot Interferometers with a Photo-Thermal Coating. <i>Scientific Reports</i> , 2017 , 7, 41895	4.9	4
13	A Plant-Transpiration-Process-Inspired Strategy for Highly Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700046	5.9	138
12	Harvesting, sensing and regulating light based on photo-thermal effect of Cu@CuO mesh. <i>Green Energy and Environment</i> , 2017 , 2, 387-392	5.7	5
11	Ultra-fast Hygrometer based on U-shaped Optical Microfiber with Nanoporous Polyelectrolyte Coating. <i>Scientific Reports</i> , 2017 , 7, 7943	4.9	23
10	Hierarchical CuO Colloidosomes and Their Structure Enhanced Photothermal Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12666-12672	3.8	47
9	Converting 2D inorganic-organic ZnSe-DETA hybrid nanosheets into 3D hierarchical nanosheet-based ZnSe microspheres with enhanced visible-light-driven photocatalytic performances. <i>Nanoscale</i> , 2015 , 7, 9752-9	7.7	24
8	Conversion of CuO nanoplates into porous hybrid Cu ₂ O/polypyrrole nanoflakes through a pyrrole-induced reductive transformation reaction. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1120-7	4.5	23
7	Nanoporous single-crystal-like Cd(x)Zn(1-x)S nanosheets fabricated by the cation-exchange reaction of inorganic-organic hybrid ZnS-amine with cadmium ions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 897-900	16.4	204
6	Nanoporous Single-Crystal-Like Cd _x Zn _{1-x} S Nanosheets Fabricated by the Cation-Exchange Reaction of Inorganic/Organic Hybrid ZnS/Amine with Cadmium Ions. <i>Angewandte Chemie</i> , 2012 , 124, 921-924	3.6	41
5	Titelbild: Nanoporous Single-Crystal-Like Cd _x Zn _{1-x} S Nanosheets Fabricated by the Cation-Exchange Reaction of Inorganic/Organic Hybrid ZnS/Amine with Cadmium Ions (Angew. Chem. 4/2012). <i>Angewandte Chemie</i> , 2012 , 124, 849-849	3.6	
4	Synthesis of Hollow Cd _x Zn _{1-x} Se Nanoframes through the Selective Cation Exchange of Inorganic/Organic Hybrid ZnSe/Amine Nanoflakes with Cadmium Ions. <i>Angewandte Chemie</i> , 2012 , 124, 3265-3269	3.6	20
3	Synthesis of hollow Cd(x)Zn(1-x) Se nanoframes through the selective cation exchange of inorganic-organic hybrid ZnSe-amine nanoflakes with cadmium ions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3211-5	16.4	102
2	Composition-tunable Pt-Co alloy nanoparticle networks: facile room-temperature synthesis and supportless electrocatalytic applications. <i>ChemPhysChem</i> , 2012 , 13, 2601-9	3.2	39
1	Interfacial solar evaporation driven lead removal from a contaminated soil. <i>EcoMat</i> , e12140	9.4	6

