

Xuan Wu

List of Publications by Year in descending order

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35
papers

3,972
citations

218677

26
h-index

330143

37
g-index

39
all docs

39
docs citations

39
times ranked

2438
citing authors

#	ARTICLE	IF	CITATIONS
1	A flexible photothermal cotton-CuS nanocage-agarose aerogel towards portable solar steam generation. <i>Nano Energy</i> , 2019, 56, 708-715.	16.0	349
2	Graphene and Rice-Straw-Fiber-Based 3D Photothermal Aerogels for Highly Efficient Solar Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15279-15287.	8.0	284
3	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. <i>Materials Today Energy</i> , 2019, 12, 277-296.	4.7	250
4	Same materials, bigger output: A reversibly transformable 2D→3D photothermal evaporator for highly efficient solar steam generation. <i>Nano Energy</i> , 2021, 79, 105477.	16.0	228
5	Dual-Phase Photothermal Evaporator for Antisalt Accumulation and Highly Efficient Solar Steam Generation. <i>Advanced Functional Materials</i> , 2021, 31, 2102618.	14.9	226
6	All-Cold Evaporation under One Sun with Zero Energy Loss by Using a Heatsink Inspired Solar Evaporator. <i>Advanced Science</i> , 2021, 8, 2002501.	11.2	225
7	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. <i>Nano Energy</i> , 2020, 78, 105269.	16.0	215
8	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.	13.8	212
9	A Plant-Transpiration-Inspired Strategy for Highly Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700046.	5.3	208
10	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.	10.3	184
11	Boosting solar steam generation by structure enhanced energy management. <i>Science Bulletin</i> , 2020, 65, 1380-1388.	9.0	184
12	A photothermal reservoir for highly efficient solar steam generation without bulk water. <i>Science Bulletin</i> , 2019, 64, 1625-1633.	9.0	178
13	Enhancing solar steam generation using a highly thermally conductive evaporator support. <i>Science Bulletin</i> , 2021, 66, 2479-2488.	9.0	159
14	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.	10.3	153
15	A Hollow and Compressible 3D Photothermal Evaporator for Highly Efficient Solar Steam Generation without Energy Loss. <i>Solar Rrl</i> , 2021, 5, 2100053.	5.8	127
16	More from less: improving solar steam generation by selectively removing a portion of evaporation surface. <i>Science Bulletin</i> , 2022, 67, 1572-1580.	9.0	122
17	Towards sustainable saline agriculture: Interfacial solar evaporation for simultaneous seawater desalination and saline soil remediation. <i>Water Research</i> , 2022, 212, 118099.	11.3	110
18	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, 3211-3215.	13.8	109

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19	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.	10.3	65
20	Hierarchical CuO Colloidosomes and Their Structure Enhanced Photothermal Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12666-12672.	3.1	60
21	Composition-Tunable Pt-Co Alloy Nanoparticle Networks: Facile Room-Temperature Synthesis and Supportless Electrocatalytic Applications. <i>ChemPhysChem</i> , 2012, 13, 2601-2609.	2.1	42
22	A cobalt oxide@polydopamine-reduced graphene oxide-based 3D photothermal evaporator for highly efficient solar steam generation. <i>Tungsten</i> , 2020, 2, 423-432.	4.8	38
23	Interfacial solar evaporation driven lead removal from a contaminated soil. <i>EcoMat</i> , 2021, 3, e12140.	11.9	34
24	A biomimetic interfacial solar evaporator for heavy metal soil remediation. <i>Chemical Engineering Journal</i> , 2022, 435, 134793.	12.7	31
25	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, 9752-9759.	5.6	27
26	Ultra-fast Hygrometer based on U-shaped Optical Microfiber with Nanoporous Polyelectrolyte Coating. <i>Scientific Reports</i> , 2017, 7, 7943.	3.3	27
27	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, 1120-1127.	3.3	23
28	Optical hygrometer using light-sheet skew-ray probed multimode fiber with polyelectrolyte coating. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126685.	7.8	9
29	Boosting extraction of Pb in contaminated soil via interfacial solar evaporation of multifunctional sponge. <i>Green Energy and Environment</i> , 2023, 8, 1459-1468.	8.7	8
30	Harvesting, sensing and regulating light based on photo-thermal effect of Cu@CuO mesh. <i>Green Energy and Environment</i> , 2017, 2, 387-392.	8.7	6
31	Light-Sheet Skew-Ray Enhanced Pump-Absorption for Sensing. <i>Journal of Lightwave Technology</i> , 2019, 37, 2140-2146.	4.6	5
32	Photodetector based on Vernier-Enhanced Fabry-Perot Interferometers with a Photo-Thermal Coating. <i>Scientific Reports</i> , 2017, 7, 41895.	3.3	4
33	Light-Sheet Skew Ray-Enhanced Localized Surface Plasmon Resonance-Based Chemical Sensing. <i>ACS Sensors</i> , 2020, 5, 127-132.	7.8	3
34	Titelbild: Nanoporous Single-Crystal-Like CdxZn1-xS Nanosheets Fabricated by the Cation-Exchange Reaction of Inorganic-Organic Hybrid ZnS-Amine with Cadmium Ions (<i>Angew. Chem.</i> 4/2012). <i>Angewandte Chemie</i> , 2012, 124, 849-849.	2.0	0
35	Recent Progress in Advanced Humidity Sensors. <i>Journal of Physics: Conference Series</i> , 2018, 1065, 252008.	0.4	0