Xuan Wu

List of Publications by Year in descending order

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	Boosting extraction of Pb in contaminated soil via interfacial solar evaporation of multifunctional sponge. Green Energy and Environment, 2023, 8, 1459-1468.	8.7	8
2	Towards sustainable saline agriculture: Interfacial solar evaporation for simultaneous seawater desalination and saline soil remediation. Water Research, 2022, 212, 118099.	11.3	110
3	A biomimetic interfacial solar evaporator for heavy metal soil remediation. Chemical Engineering Journal, 2022, 435, 134793.	12.7	31
4	More from less: improving solar steam generation by selectively removing a portion of evaporation surface. Science Bulletin, 2022, 67, 1572-1580.	9.0	122
5	Same materials, bigger output: A reversibly transformable 2Dâ€“3D photothermal evaporator for highly efficient solar steam generation. Nano Energy, 2021, 79, 105477.	16.0	228
6	Allâ€Cold Evaporation under One Sun with Zero Energy Loss by Using a Heatsink Inspired Solar Evaporator. Advanced Science, 2021, 8, 2002501.	11.2	225
7	A Hollow and Compressible 3D Photothermal Evaporator for Highly Efficient Solar Steam Generation without Energy Loss. Solar Rrl, 2021, 5, 2100053.	5.8	127
8	Dualâ€Zone Photothermal Evaporator for Antisalt Accumulation and Highly Efficient Solar Steam Generation. Advanced Functional Materials, 2021, 31, 2102618.	14.9	226
9	Interfacial solar evaporation driven lead removal from a contaminated soil. EcoMat, 2021, 3, e12140.	11.9	34
10	Enhancing solar steam generation using a highly thermally conductive evaporator support. Science Bulletin, 2021, 66, 2479-2488.	9.0	159
11	Light-Sheet Skew Ray-Enhanced Localized Surface Plasmon Resonance-Based Chemical Sensing. ACS Sensors, 2020, 5, 127-132.	7.8	3
12	A general method for selectively coating photothermal materials on 3D porous substrate surfaces towards cost-effective and highly efficient solar steam generation. Journal of Materials Chemistry A, 2020, 8, 24703-24709.	10.3	65
13	A cobalt oxide@polydopamine-reduced graphene oxide-based 3D photothermal evaporator for highly efficient solar steam generation. Tungsten, 2020, 2, 423-432.	4.8	38
14	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. Nano Energy, 2020, 78, 105269.	16.0	215
15	Stackable nickelâ€“cobalt@polydopamine nanosheet based photothermal sponges for highly efficient solar steam generation. Journal of Materials Chemistry A, 2020, 8, 11665-11673.	10.3	184
16	Graphene and Rice-Straw-Fiber-Based 3D Photothermal Aerogels for Highly Efficient Solar Evaporation. ACS Applied Materials & Interfaces, 2020, 12, 15279-15287.	8.0	284
17	Boosting solar steam generation by structure enhanced energy management. Science Bulletin, 2020, 65, 1380-1388.	9.0	184
18	A photothermal reservoir for highly efficient solar steam generation without bulk water. Science Bulletin, 2019, 64, 1625-1633.	9.0	178

#	Article	IF	Citations
19	Optical hygrometer using light-sheet skew-ray probed multimode fiber with polyelectrolyte coating. Sensors and Actuators B: Chemical, 2019, 296, 126685.	7.8	9
20	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. Materials Today Energy, 2019, 12, 277-296.	4.7	250
21	Light-Sheet Skew-Ray Enhanced Pump-Absorption for Sensing. Journal of Lightwave Technology, 2019, 37, 2140-2146.	4.6	5
22	A flexible photothermal cotton-CuS nanocage-agarose aerogel towards portable solar steam generation. Nano Energy, 2019, 56, 708-715.	16.0	349
23	Recent Progress in Advanced Humidity Sensors. Journal of Physics: Conference Series, 2018, 1065, 252008.	0.4	0
24	Evaporation above a bulk water surface using an oil lamp inspired highly efficient solar-steam generation strategy. Journal of Materials Chemistry A, 2018, 6, 12267-12274.	10.3	153
25	Photodetector based on Vernier-Enhanced Fabry-Perot Interferometers with a Photo-Thermal Coating. Scientific Reports, 2017, 7, 41895.	3.3	4
26	A Plantâ€Transpirationâ€Processâ€Inspired Strategy for Highly Efficient Solar Evaporation. Advanced Sustainable Systems, 2017, 1, 1700046.	5.3	208
27	Harvesting, sensing and regulating light based on photo-thermal effect of Cu@CuO mesh. Green Energy and Environment, 2017, 2, 387-392.	8.7	6
28	Ultra-fast Hygrometer based on U-shaped Optical Microfiber with Nanoporous Polyelectrolyte Coating. Scientific Reports, 2017, 7, 7943.	3.3	27
29	Hierarchical CuO Colloidosomes and Their Structure Enhanced Photothermal Catalytic Activity. Journal of Physical Chemistry C, 2016, 120, 12666-12672.	3.1	60
30	Converting 2D inorganicâ€“organic ZnSeâ€“DETA hybrid nanosheets into 3D hierarchical nanosheet-based ZnSe microspheres with enhanced visible-light-driven photocatalytic performances. Nanoscale, 2015, 7, 9752-9759.	5.6	27
31	Conversion of CuO Nanoplates into Porous Hybrid Cu₂O/Polypyrrole Nanoflakes through a Pyrroleâ€Induced Reductive Transformation Reaction. Chemistry - an Asian Journal, 2013, 8, 1120-1127.	3.3	23
32	Titelbild: Nanoporous Single-Crystal-Like CdxZn1â^'xS Nanosheets Fabricated by the Cation-Exchange Reaction of Inorganic-Organic Hybrid ZnS-Amine with Cadmium Ions (Angew. Chem. 4/2012). Angewandte Chemie, 2012, 124, 849-849.	2.0	0
33	Synthesis of Hollow Cd_xZn_{1â^'x}Se Nanoframes through the Selective Cation Exchange of Inorganicâ€“Organic Hybrid ZnSeâ€“Amine Nanoflakes with Cadmium Ions. Angewandte Chemie - International Edition, 2012, 51, 3211-3215.	13.8	109
34	Compositionâ€Tunable Ptâ€“Co Alloy Nanoparticle Networks: Facile Roomâ€Temperature Synthesis and Supportless Electrocatalytic Applications. ChemPhysChem, 2012, 13, 2601-2609.	2.1	42
35	Nanoporous Singleâ€Crystalâ€Like Cd_xZn_{1â^'x}S Nanosheets Fabricated by the Cationâ€Exchange Reaction of Inorganicâ€“Organic Hybrid ZnSâ€“Amine with Cadmium Ions. Angewandte Chemie - International Edition, 2012, 51, 897-900.	13.8	212