

Yida Wang

List of Publications by Year in descending order

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29
papers

2,400
citations

430754

18
h-index

477173

29
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all docs

29
docs citations

29
times ranked

1143
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Patterning of Two-Dimensional Nanostructure-Embedded Photothermal Hydrogels for High-Yield Solar Steam Generation. ACS Nano, 2021, 15, 10366-10376.	7.3	230
2	Same materials, bigger output: A reversibly transformable 2D→3D photothermal evaporator for highly efficient solar steam generation. Nano Energy, 2021, 79, 105477.	8.2	228
3	Dual-Phase Photothermal Evaporator for Antisalt Accumulation and Highly Efficient Solar Steam Generation. Advanced Functional Materials, 2021, 31, 2102618.	7.8	226
4	All-Cold Evaporation under One Sun with Zero Energy Loss by Using a Heatsink Inspired Solar Evaporator. Advanced Science, 2021, 8, 2002501.	5.6	225
5	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. Nano Energy, 2020, 78, 105269.	8.2	215
6	Stackable nickel-cobalt@polydopamine nanosheet based photothermal sponges for highly efficient solar steam generation. Journal of Materials Chemistry A, 2020, 8, 11665-11673.	5.2	184
7	Boosting solar steam generation by structure enhanced energy management. Science Bulletin, 2020, 65, 1380-1388.	4.3	184
8	Enhancing solar steam generation using a highly thermally conductive evaporator support. Science Bulletin, 2021, 66, 2479-2488.	4.3	159
9	A Hollow and Compressible 3D Photothermal Evaporator for Highly Efficient Solar Steam Generation without Energy Loss. Solar Rrl, 2021, 5, 2100053.	3.1	127
10	More from less: improving solar steam generation by selectively removing a portion of evaporation surface. Science Bulletin, 2022, 67, 1572-1580.	4.3	122
11	Towards sustainable saline agriculture: Interfacial solar evaporation for simultaneous seawater desalination and saline soil remediation. Water Research, 2022, 212, 118099.	5.3	110
12	Coupling of Ag Nanoparticle with Inverse Opal Photonic Crystals as a Novel Strategy for Upconversion Emission Enhancement of NaYF ₄ : Yb ³⁺ , Er ³⁺ Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 25211-25218.	4.0	88
13	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.	5.2	65
14	Upconversion emission enhancement mechanisms of Nd ³⁺ -sensitized NaYF ₄ :Yb ³⁺ ,Er ³⁺ nanoparticles using tunable plasmonic Au films: plasmonic-induced excitation, radiative decay rate and energy-transfer enhancement. Journal of Materials Chemistry C, 2017, 5, 8535-8544.	2.7	47
15	Photoluminescence enhancement of Eu ³⁺ ions by Ag species in SiO ₂ three-dimensionally ordered macroporous materials. Journal of Materials Chemistry C, 2015, 3, 7699-7708.	2.7	31
16	A biomimetic interfacial solar evaporator for heavy metal soil remediation. Chemical Engineering Journal, 2022, 435, 134793.	6.6	31
17	A 3D Opened Hollow Photothermal Evaporator for Highly Efficient Solar Steam Generation. Solar Rrl, 2022, 6, .	3.1	30
18	Upconversion emission enhancement by porous silver films with ultra-broad plasmon absorption. Optical Materials Express, 2017, 7, 1188.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Au nanoparticles embedded inverse opal photonic crystals as substrates for upconversion emission enhancement. <i>Journal of the American Ceramic Society</i> , 2017, 100, 988-997.	1.9	13
20	Photoluminescence Enhancement of SiO ₂ -Coated LaPO ₄ :Eu ³⁺ Inverse Opals by Surface Plasmon Resonance of Ag Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3330-3335.	1.9	12
21	Preparation and photoluminescence enhancement of silica-coated LaPO ₄ :Eu ³⁺ three dimensional ordered macroporous films. <i>Ceramics International</i> , 2015, 41, 8109-8113.	2.3	10
22	Enhanced upconversion emission of three dimensionally ordered macroporous films Bi ₂ Ti ₂ O ₇ :Er ³⁺ , Yb ³⁺ with silica shell. <i>Ceramics International</i> , 2015, 41, 11770-11775.	2.3	9
23	Boosting extraction of Pb in contaminated soil via interfacial solar evaporation of multifunctional sponge. <i>Green Energy and Environment</i> , 2023, 8, 1459-1468.	4.7	8
24	Tunable and ultra-broad plasmon enhanced upconversion emission of NaYF ₄ :Yb ³⁺ , Er ³⁺ nanoparticles deposited on Au films with papilla Au nanoparticles. <i>RSC Advances</i> , 2016, 6, 56963-56970.	1.7	7
25	Upconversion luminescence enhancement of SiO ₂ :Yb ³⁺ , Tb ³⁺ inverse opal photonic crystal by gold nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2016, 437, 53-57.	1.5	7
26	Preparation and Enhanced Luminescence of Au Nanoparticles Including SiO ₂ :Tb ³⁺ Three-Dimensional Ordered Macroporous Films. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2011-2013.	1.9	4
27	Photoluminescence and energy transfer investigation from SiO ₂ :Tb, Au inverse opals to rhodamine-B dyes. <i>Optical Materials</i> , 2016, 60, 373-382.	1.7	3
28	Li ⁺ Ions Doping Enhanced Photoluminescence Properties and Mechanisms in LaPO ₄ :Eu ³⁺ Three Dimensional Ordered Macroporous Films. <i>Science of Advanced Materials</i> , 2016, 8, 1484-1489.	0.1	3
29	Ag Nanoparticles Enhanced Upconversion Luminescence in YbPO ₄ :Er ³⁺ Three Dimensional Ordered Macroporous Materials. <i>Science of Advanced Materials</i> , 2015, 7, 2715-2720.	0.1	1