

Xiaoyang Wang

List of Publications by Year in descending order

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37
papers

893
citations

471509

17
h-index

477307

29
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38
all docs

38
docs citations

38
times ranked

1062
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated photothermal aerogels with ultrahigh-performance solar steam generation. <i>Nano Energy</i> , 2020, 74, 104857.	16.0	103
2	Extremely high water-production created by a nanoink-stained PVA evaporator with embossment structure. <i>Nano Energy</i> , 2019, 55, 368-376.	16.0	86
3	A novel glass-fiber-aided cold-press method for fabrication of n-type Ag_2Te nanowires thermoelectric film on flexible copy-paper substrate. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24740-24748.	10.3	73
4	Dynamic Ag^+ -intercalation with AgSnSe_2 nano-precipitates in Cl-doped polycrystalline SnSe_2 toward ultra-high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9761-9772.	10.3	50
5	A Novel Ink- \AA Stained Paper for Solar Heavy Metal Treatment and Desalination. <i>Solar Rrl</i> , 2018, 2, 1800073.	5.8	49
6	Thermoelectric Flexible Silver Selenide Films: Compositional and Length Optimization. <i>IScience</i> , 2020, 23, 100753.	4.1	42
7	Enhanced power factor in flexible reduced graphene oxide/nanowires hybrid films for thermoelectrics. <i>RSC Advances</i> , 2016, 6, 31580-31587.	3.6	35
8	Highly efficient and long-term stable solar-driven water purification through a rechargeable hydrogel evaporator. <i>Desalination</i> , 2022, 537, 115872.	8.2	33
9	Free-Standing Reduced Graphene Oxide Paper with High Electrical Conductivity. <i>Journal of Electronic Materials</i> , 2016, 45, 1290-1295.	2.2	32
10	Reduced Red Mud as the Solar Absorber for Solar-Driven Water Evaporation and Vapor- \AA Electricity Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30556-30564.	8.0	32
11	A nanoreactor based on SrTiO_3 coupled TiO_2 nanotubes confined Au nanoparticles for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1559-1568.	7.1	28
12	Realizing a High ZT of 1.6 in N-Type Mg_3Sb_2 -Based Zintl Compounds through Mn and Se Codoping. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21799-21807.	8.0	26
13	Multifunctional Hydrothermal- \AA Carbonized Sugarcane for Highly Efficient Direct Solar Steam Generation. <i>Solar Rrl</i> , 2021, 5, 2000782.	5.8	23
14	Boosting High Thermoelectric Performance of Ni-Doped $\text{Cu}_1.9\text{S}$ by Significantly Reducing Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8385-8391.	8.0	22
15	Optimized Electronic Bands and Ultralow Lattice Thermal Conductivity in Ag and Y Codoped SnTe . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32876-32885.	8.0	21
16	Synergistically optimizing the thermoelectric properties of polycrystalline Ag_8SnSe_6 by introducing additional Sn. <i>CrystEngComm</i> , 2020, 22, 248-256.	2.6	19
17	Enhancement of Thermoelectric Performance of Layered SnSe_2 by Synergistic Modulation of Carrier Concentration and Suppression of Lattice Thermal Conductivity. <i>ACS Applied Energy Materials</i> , 2019, 2, 8481-8490.	5.1	18
18	Decoration of Bi_2Se_3 nanosheets with a thin $\text{Bi}_2\text{Se}_2\text{O}_2$ layer for visible-light-driven overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10950-10958.	7.1	17

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19	Bi ₂ O ₃ decorated TiO ₂ nanotube confined Pt nanoparticles with enhanced activity for catalytic combustion of ethylene. <i>Journal of Materials Science</i> , 2019, 54, 4637-4646.	3.7	17
20	<i>In situ</i> synthesis of copper nanoparticles encapsulated by nitrogen-doped graphene at room temperature <i>via</i> solution plasma. <i>RSC Advances</i> , 2020, 10, 36627-36635.	3.6	17
21	Self-Cleaning Integrative Aerogel for Stable Solar-Assisted Desalination. <i>Global Challenges</i> , 2021, 5, 2000063.	3.6	16
22	Entrapment of Bi ₂ O ₃ nanoparticles in TiO ₂ nanotubes for visible light-driven photocatalysis. <i>Research on Chemical Intermediates</i> , 2018, 44, 6753-6763.	2.7	15
23	Enhanced activity for catalytic combustion of ethylene by the Pt nanoparticles confined in TiO ₂ nanotube with surface oxygen vacancy. <i>Ceramics International</i> , 2022, 48, 3933-3940.	4.8	14
24	Nitrogen-doped 3D porous graphene coupled with densely distributed CoOx nanoparticles for efficient multifunctional electrocatalysis and Zn-Air battery. <i>Electrochimica Acta</i> , 2022, 420, 140432.	5.2	14
25	Bifunctional polypyrrole-based conductive paper towards simultaneous efficient solar-driven water evaporation and electrochemical energy storage. <i>Nanoscale</i> , 2022, 14, 6949-6958.	5.6	13
26	Versatile PVA/CS/CuO aerogel with superior hydrophilic and mechanical properties towards efficient solar steam generation. <i>Nano Select</i> , 2021, 2, 2380-2389.	3.7	11
27	Entrapping Ru nanoparticles into TiO ₂ nanotube: Insight into the confinement synergy on boosting photo-thermal CO ₂ methanation activity. <i>Ceramics International</i> , 2021, 47, 27316-27323.	4.8	11
28	Synergetic design of dopant-free defect-enriched 3D interconnected hierarchical porous graphene mesh for boosting oxygen reduction reaction. <i>Carbon</i> , 2021, 184, 609-617.	10.3	10
29	Improved Thermoelectric Performance in Flexible Tellurium Nanowires/Reduced Graphene Oxide Sandwich Structure Hybrid Films. <i>Journal of Electronic Materials</i> , 2017, 46, 3049-3056.	2.2	9
30	Titania Nanotube Derived Titanium Nitride Nano-cluster for Visible Light Driven Water Splitting. <i>Catalysis Letters</i> , 2019, 149, 61-68.	2.6	8
31	Improved Thermoelectric Performance Achieved by Regulating Heterogeneous Phase in Half-Heusler TiNiSn-Based Materials. <i>Journal of Electronic Materials</i> , 2018, 47, 3248-3253.	2.2	5
32	Fe ₂ O ₃ modification promotes the photocatalytic performance of TiO ₂ nanotube confined Pd nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 380, 111865.	3.9	5
33	Tunable cobalt doping titanium nitride (Ti Co N) interlaced nanotubes enable an enhanced electronic synergy on visible-light driven hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17143-17153.	7.1	5
34	Manipulating the Solubility of SnSe in SnTe by Br Doping for Improving the Thermoelectric Performance. <i>ACS Applied Energy Materials</i> , 2021, 4, 13027-13035.	5.1	5
35	Synthesis and photovoltaic properties of conjugated copolymers containing cyclopentadithiophene and two different electron-deficient moieties in the polymer backbone. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	4
36	Photodeposition and hydrogenation activity of Pt nanosites on the TiN support: Photo-assisted metal-support synergy. <i>Molecular Catalysis</i> , 2020, 497, 111206.	2.0	3

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37	Influence of TiO ₂ crystallinity on TiO ₂ nanotube confined CdS nanoparticles for photocatalytic hydrogen production. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 599-605.	1.6	2