

Aili Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11169117/publications.pdf>

Version: 2024-02-01

29
papers

1,096
citations

394421

19
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

1364
citing authors

#	ARTICLE	IF	CITATIONS
1	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12201-12225.	10.3	149
2	Emerging alkali metal ion (Li ⁺ , Na ⁺ , K ⁺ and Rb ⁺) doped perovskite films for efficient solar cells: recent advances and prospects. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24150-24163.	10.3	116
3	Ionic liquids engineering for high-efficiency and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020, 398, 125594.	12.7	85
4	Ionic liquid reducing energy loss and stabilizing CsPbI ₂ Br solar cells. <i>Nano Energy</i> , 2021, 81, 105631.	16.0	71
5	Enhanced electrocatalytic activity of Co@N-doped carbon nanotubes by ultrasmall defect-rich TiO ₂ nanoparticles for hydrogen evolution reaction. <i>Nano Research</i> , 2017, 10, 2599-2609.	10.4	69
6	Improving energy level alignment by adenine for efficient and stable perovskite solar cells. <i>Nano Energy</i> , 2020, 74, 104846.	16.0	54
7	Ion Migration in Organic-Inorganic Hybrid Perovskite Solar Cells: Current Understanding and Perspectives. <i>Small</i> , 2022, 18, e2105783.	10.0	53
8	Coordination modulated crystallization and defect passivation in high quality perovskite film for efficient solar cells. <i>Coordination Chemistry Reviews</i> , 2020, 420, 213408.	18.8	51
9	Vacancy defect modulation in hot-casted NiO film for efficient inverted planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2020, 48, 426-434.	12.9	44
10	The Voltage Loss in Tin Halide Perovskite Solar Cells: Origins and Perspectives. <i>Advanced Functional Materials</i> , 2022, 32, 2108832.	14.9	43
11	Tailored synthesis of Zn-N co-doped porous MoC nanosheets towards efficient hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 1700-1709.	5.6	39
12	Insights into Ultrafast Carrier Dynamics in Perovskite Thin Films and Solar Cells. <i>ACS Photonics</i> , 2020, 7, 1893-1907.	6.6	34
13	Construct efficient CsPbI ₂ Br solar cells by minimizing the open-circuit voltage loss through controlling the peripheral substituents of hole-transport materials. <i>Chemical Engineering Journal</i> , 2021, 425, 131675.	12.7	34
14	Low-cost coenzyme Q10 as an efficient electron transport layer for inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18626-18633.	10.3	33
15	TiO ₂ nanodots anchored on nitrogen-doped carbon nanotubes encapsulated cobalt nanoparticles as photocatalysts with photo-enhanced catalytic activity towards the pollutant removal. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 158-166.	9.4	32
16	Facile lattice tensile strain compensation in mixed-cation halide perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022, 66, 422-428.	12.9	29
17	Precise control of PbI ₂ excess into grain boundary for efficacious charge extraction in off-stoichiometric perovskite solar cells. <i>Electrochimica Acta</i> , 2020, 338, 135697.	5.2	25
18	Secondary lateral growth of MAPbI ₃ grains for the fabrication of efficient perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3217-3225.	5.5	24

#	ARTICLE	IF	CITATIONS
19	Eco-friendly antisolvent enabled inverted MAPbI ₃ perovskite solar cells with fill factors over 84%. <i>Green Chemistry</i> , 2021, 23, 3633-3641.	9.0	22
20	Simultaneous water recovery and hydrogen production by bifunctional electrocatalyst of nitrogen-doped carbon nanotubes protected cobalt nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12110-12118.	7.1	17
21	Inhibiting octahedral tilting for stable CsPbI ₂ Br solar cells. <i>Informa Materials</i> , 2022, 4, .	17.3	17
22	Tetrazole modulated perovskite films for efficient solar cells with improved moisture stability. <i>Chemical Engineering Journal</i> , 2021, 420, 127579.	12.7	14
23	Aqueous solvent-regulated crystallization and interfacial modification in perovskite solar cells with enhanced stability and performance. <i>Journal of Power Sources</i> , 2020, 471, 228447.	7.8	13
24	Toward stable lead halide perovskite solar cells: A knob on the A/X sites components. <i>IScience</i> , 2022, 25, 103599.	4.1	13
25	Co Nanoparticles@N-doped carbon coated on carbon Nanotube@Defective silica as non-noble photocathode for efficient photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9279-9286.	7.1	5
26	Influences of Flow Intensity, Cooling Rate and Nucleation Density at Ingot Surface on Deflective Growth of Dendrites for Al-based Alloy. <i>ISIJ International</i> , 2009, 49, 1010-1018.	1.4	4
27	Dynamically controlled growth of Cu ²⁺ Mo ⁶⁺ O nanosheets for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9337-9344.	5.5	3
28	The Degradation of Indigo Sodium Disulphonate by Chromium Isomorphic Replacement in Magnetite. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 611-617.	1.4	2
29	Magnesium doped spinel NiCo ₂ O ₄ for improved hole extraction in efficient inverted perovskite solar cells. <i>Materials Today Communications</i> , 2022, 31, 103750.	1.9	1