Hao Lu

List of Publications by Year
in descending order

28 papers	1,461 citations	471509 17 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	2834 citing authors

#	Article	IF	Citations
1	2D ZnIn₂S₄ Nanosheet/1D TiO₂ Nanorod Heterostructure Arrays for Improved Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 17200-17207.	8.0	302
2	A Selfâ€Powered and Stable Allâ€Perovskite Photodetectorâ€“Solar Cell Nanosystem. Advanced Functional Materials, 2016, 26, 1296-1302.	14.9	203
3	Nanoscale ultraviolet photodetectors based on onedimensional metal oxide nanostructures. Nano Research, 2015, 8, 382-405.	10.4	143
4	Identifying the optimum thickness of electron transport layers for highly efficient perovskite planar solar cells. Journal of Materials Chemistry A, 2015, 3, 16445-16452.	10.3	91
5	TiO₂ Electron Transport Bilayer for Highly Efficient Planar Perovskite Solar Cell. Small, 2017, 13, 1701535.	10.0	85
6	Bandgapâ€Graded CdS_xSe_{1â€“x} Nanowires for Highâ€Performance Fieldâ€Effect Transistors and Solar Cells. Advanced Materials, 2013, 25, 1109-1113.	21.0	75
7	High-performance UVâ€“vis photodetectors based on electrospun ZnO nanofiber-solution processed perovskite hybrid structures. Nano Research, 2017, 10, 2244-2256.	10.4	72
8	TiO₂ Phase Junction Electron Transport Layer Boosts Efficiency of Planar Perovskite Solar Cells. Advanced Science, 2018, 5, 1700614.	11.2	67
9	Three-Dimensional Lupinus-like TiO₂ Nanorod@Sn₃O₄ Nanosheet Hierarchical Heterostructured Arrays as Photoanode for Enhanced Photoelectrochemical Performance. ACS Applied Materials & Interfaces, 2017, 9, 38537-38544.	8.0	59
10	Ultrathin Amorphous Ni(OH)₂ Nanosheets on Ultrathin <i>Î±</i>â€Fe₂O₃ Films for Improved Photoelectrochemical Water Oxidation. Advanced Materials Interfaces, 2016, 3, 1600256.	3.7	53
11	Metal-free heterojunction of black phosphorus/oxygen-enriched porous g-C₃N₄ as an efficient photocatalyst for Fenton-like cascade water purification. Journal of Materials Chemistry A, 2020, 8, 19484-19492.	10.3	51
12	Enhancing photoelectrochemical activity with three-dimensional p-CuO/n-ZnO junction photocathodes. Science China Materials, 2016, 59, 825-832.	6.3	35
13	Boosting Efficiency and Stability of Perovskite Solar Cells with CdS Inserted at TiO₂/Perovskite Interface. Advanced Materials Interfaces, 2016, 3, 1600729.	3.7	35
14	Fabricating an optimal rutile TiO2 electron transport layer by delicately tuning TiCl4 precursor solution for high performance perovskite solar cells. Nano Energy, 2020, 68, 104336.	16.0	33
15	Efficient perovskite solar cells based on novel three-dimensional TiO2 network architectures. Science Bulletin, 2016, 61, 778-786.	9.0	28
16	Efficient planar perovskite solar cells based on low-cost spin-coated ultrathin Nb2O5 films. Solar Energy, 2018, 166, 187-194.	6.1	26
17	Interface Engineering through Atomic Layer Deposition towards Highly Improved Performance of Dye-Sensitized Solar Cells. Scientific Reports, 2015, 5, 12765.	3.3	22
18	Black Phosphorus Quantum Dot-Engineered Tin Oxide Electron Transport Layer for Highly Stable Perovskite Solar Cells with Negligible Hysteresis. ACS Applied Materials & Interfaces, 2022, 14, 11264-11272.	8.0	15

#	Article	IF	Citations
19	Coexistence of Photoelectric Conversion and Storage in van der Waals Heterojunctions. Physical Review Letters, 2021, 127, 217401.	7.8	13
20	Novel ZnO microflowers on nanorod arrays: local dissolution-driven growth and enhanced light harvesting in dye-sensitized solar cells. Nanoscale Research Letters, 2014, 9, 183.	5.7	12
21	Fabrication of a TiO₂/Fe₂O₃ Core/Shell Nanostructure by Pulse Laser Deposition toward Stable and Visible Light Photoelectrochemical Water Splitting. ACS Omega, 2020, 5, 19861-19867.	3.5	11
22	An ultrathin and compact electron transport layer made from novel water-dispersed Fe₃O₄ nanoparticles to accomplish UV-stable perovskite solar cells. Materials Advances, 2021, 2, 3629-3636.	5.4	8
23	Three-dimensional ZnO/ZnxCd1âˆ'xS/CdS nanostructures modified by microwave hydrothermal reaction-deposited CdSe quantum dots for chemical solar cells. Solar Energy, 2019, 191, 78-83.	6.1	7
24	Controllable conduction and hidden phase transitions revealed via vertical strain. Applied Physics Letters, 2019, 114, 252901.	3.3	5
25	In situ growth of an opal-like TiO2 electron transport layer by atomic layer deposition for perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 880-885.	4.9	5
26	Rewritable Optical Memory Based on Sign Switching of Magnetoresistance. Advanced Electronic Materials, 2020, 6, 1900701.	5.1	3
27	Nanowires: Bandgap-Graded CdSxSe1-xNanowires for High-Performance Field-Effect Transistors and Solar Cells (Adv. Mater. 8/2013). Advanced Materials, 2013, 25, 1082-1082.	21.0	1
28	Oxygen-vacancy-induced atomic and electronic reconstructions in magnetic Sr(Ti_{0.875}Fe_{0.125})O_{3-Î´} thin films. Materials Research Express, 2020, 7, 076105.	1.6	1