Aobo Ren

List of Publications by Year
in descending order

25 papers	918 citations	623734 14 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	1137 citing authors

#	Article	IF	Citations
1	Recent Advances in 2D MXenes for Photodetection. Advanced Functional Materials, 2020, 30, 2000907.	14.9	143
2	Flexible and Selfâ€Powered Photodetector Arrays Based on Allâ€Inorganic CsPbBr₃ Quantum Dots. Advanced Materials, 2020, 32, e2000004.	21.0	134
3	Emerging light-emitting diodes for next-generation data communications. Nature Electronics, 2021, 4, 559-572.	26.0	102
4	Efficient Perovskite Solar Modules with Minimized Nonradiative Recombination and Local Carrier Transport Losses. Joule, 2020, 4, 1263-1277.	24.0	93
5	MXene-Modulated Electrode/SnO₂ Interface Boosting Charge Transport in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 53973-53983.	8.0	71
6	Direct laser-patterned MXeneâ€“perovskite image sensor arrays for visible-near infrared photodetection. Materials Horizons, 2020, 7, 1901-1911.	12.2	68
7	Nanolasers Based on 2D Materials. Laser and Photonics Reviews, 2020, 14, 2000271.	8.7	47
8	Recent progress of IIIâ€“V quantum dot infrared photodetectors on silicon. Journal of Materials Chemistry C, 2019, 7, 14441-14453.	5.5	43
9	Highâ€Performance Xâ€Ray Detector Based on Liquid Diffused Separation Induced Cs₃Bi₂I₉ Single Crystal. Advanced Optical Materials, 2021, 9, 2101351.	7.3	32
10	Toward Continuous-Wave Pumped Metal Halide Perovskite Lasers: Strategies and Challenges. ACS Nano, 2022, 16, 7116-7143.	14.6	32
11	Broadband Visibleâ€“Near Infrared Twoâ€Dimensional WSe₂/In₂Se₃ Photodetector for Underwater Optical Communications. Advanced Optical Materials, 2022, 10, .	7.3	28
12	Plasmonic MXene Nanoparticle-Enabled High-Performance Two-Dimensional MoS₂ Photodetectors. ACS Applied Materials & Interfaces, 2022, 14, 8243-8250.	8.0	18
13	Enhanced Spatial Light Confinement of All Inorganic Perovskite Photodetectors Based on Hybrid Plasmonic Nanostructures. Small, 2020, 16, e2004234.	10.0	17
14	Synthesis and Characterization of CZTS Thin Films by Sol-Gel Method without Sulfurization. International Journal of Photoenergy, 2014, 2014, 1-6.	2.5	14
15	An approach to ZnTe:O intermediate-band photovoltaic materials. Solar Energy, 2017, 157, 707-712.	6.1	14
16	Single Crystal CdSe X-ray Detectors with Ultra-High Sensitivity and Low Detection Limit. ACS Applied Materials & Interfaces, 2020, 12, 56126-56134.	8.0	10
17	The study of oxygen concentration in the CdTe thin film prepared by vapor transport deposition for CdTe photovoltaic devices. Journal of Materials Science: Materials in Electronics, 2017, 28, 9442-9449.	2.2	9
18	Spatially Resolved Identification of Shunt Defects in Thin Film Solar Cells via Current Transport Efficiency Imaging Combined with 3D Finite Element Modeling. Solar Rrl, 2019, 3, 1800342.	5.8	9

#	Article	IF	Citations
19	Influence of Halide Choice on Formation of Lowâ€Ðimensional Perovskite Interlayer in Efficient Perovskite Solar Cells. Energy and Environmental Materials, 2022, 5, 670-682.	12.8	9
20	Determination of Current Transport Efficiency Map by Optoelectronic Reciprocity Relation in CdTe Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1767-1772.	2.5	7
21	Ultra-narrow-band Infrared Absorbers Based on Surface Plasmon Resonance. Plasmonics, 2021, 16, 1165-1174.	3.4	6
22	Laser scribing of Cd2SnO4-based CdTe polycrystalline solar cells. Renewable Energy, 2020, 145, 133-140.	8.9	5
23	A luminescence-based interpolation method for series resistance imaging in thin film solar cells. Japanese Journal of Applied Physics, 2019, 58, 050908.	1.5	4
24	Economical preparation of porous polyacrylonitrile-derived carbon/molybdenum disulfide composite anode for high-performance lithium-ion battery. Journal of Materials Science, 2022, 57, 1246-1260.	3.7	2
25	Nanolasers: Nanolasers Based on 2D Materials (Laser Photonics Rev. 14(12)/2020). Laser and Photonics Reviews, 2020, 14, 2070066.	8.7	1