Lingbo Xu

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Enhanced Electronic Properties of SnO₂ <i>via</i> Electron Transfer from Graphene Quantum Dots for Efficient Perovskite Solar Cells. ACS Nano, 2017, 11, 9176-9182.	14.6	302
2	Enhanced performance and light soaking stability of planar perovskite solar cells using an amine-based fullerene interfacial modifier. Journal of Materials Chemistry A, 2016, 4, 18509-18515.	10.3	62
3	Interface Defects Passivation and Conductivity Improvement in Planar Perovskite Solar Cells Using Na₂S-Doped Compact TiO₂ Electron Transport Layers. ACS Applied Materials & Interfaces, 2020, 12, 22853-22861.	8.0	59
4	Hydrothermal growth of ZnO nanowires scaffolds within mesoporous TiO2 photoanodes for dye-sensitized solar cells with enhanced efficiency. Electrochimica Acta, 2016, 196, 348-356.	5.2	35
5	Simultaneous Passivation of the SnO₂/Perovskite Interface and Perovskite Absorber Layer in Perovskite Solar Cells Using KF Surface Treatment. ACS Applied Energy Materials, 2021, 4, 10921-10930.	5.1	35
6	Hybrid reduced graphene oxide/TiO2/graphitic carbon nitride composites with improved photocatalytic activity for organic pollutant degradation. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	32
7	CH₃NH₃PbBr₃ Quantum Dot-Induced Nucleation for High Performance Perovskite Light-Emitting Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 22320-22328.	8.0	32
8	Hierarchical submicroflowers assembled from ultrathin anatase TiO2 nanosheets as light scattering centers in TiO2 photoanodes for dye-sensitized solar cells. Journal of Alloys and Compounds, 2019, 776, 1002-1008.	5.5	29
9	Hierarchical spheres assembled from large ultrathin anatase TiO2 nanosheets for photocatalytic hydrogen evolution from water splitting. International Journal of Hydrogen Energy, 2018, 43, 13190-13199.	7.1	26
10	Surface plasmon enhanced luminescence from organic-inorganic hybrid perovskites. Applied Physics Letters, 2017, 110, 233113.	3.3	22
11	Towards green antisolvent for efficient CH3NH3PbBr3 perovskite light emitting diodes: A comparison of toluene, chlorobenzene, and ethyl acetate. Applied Physics Letters, 2019, 115, .	3.3	22
12	Silver nanoparticles modified reduced graphene oxide wrapped Ag₃PO₄/TiO₂ visible-light-active photocatalysts with superior performance. RSC Advances, 2016, 6, 43697-43706.	3.6	21
13	A comparative study on the quantum-dot-sensitized, dye-sensitized and co-sensitized solar cells based on hollow spheres embedded porous TiO 2 photoanodes. Electrochimica Acta, 2015, 173, 551-558.	5.2	19
14	Enhanced optoelectronic quality of perovskite films with excess CH₃NH₃I for high-efficiency solar cells in ambient air. Nanotechnology, 2017, 28, 205401.	2.6	18
15	CsPbBr₃ quantum dots assisted crystallization of solution-processed perovskite films with preferential orientation for high performance perovskite solar cells. Nanotechnology, 2020, 31, 085401.	2.6	17
16	Effects of excess silicon on the 1540â€‰nm Er3+ luminescence in silicon rich oxynitride films. Applied Physics Letters, 2013, 103, .	3.3	13
17	Antisolvent engineering on low-temperature processed CsPbI₃ inorganic perovskites for improved performances of solar cells. Nanotechnology, 2021, 32, 185402.	2.6	11
18	Effects of n-butyl amine incorporation on the performance of perovskite light emitting diodes. Nanotechnology, 2019, 30, 105703.	2.6	10

#	ARTICLE	IF	CITATIONS
19	Defect passivation in CH3NH3PbI3 films using alkali metal fluoride additives for highly efficient perovskite solar cells. Journal Physics D: Applied Physics, 2021, 54, 315504.	2.8	10
20	Thiosemicarbazide-complexed SnO₂ electron transport layers for high-efficiency MAPbI₃ perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 6059-6065.	4.9	10
21	Sensitization of Er^3+ ions in silicon rich oxynitride films: effect of thermal treatments. Optics Express, 2014, 22, 13022.	3.4	9
22	Sensitized photoluminescence of erbium silicate synthesized on porous silicon framework. Journal of Applied Physics, 2017, 122, .	2.5	7
23	Variational hysteresis and photoresponse behavior of MAPbX ₃ (X = I, Br, Cl) perovskite single crystals. Journal of Physics Condensed Matter, 2021, 33, 285703.	1.8	7
24	2D PEA₂PbI₄â€“3D MAPbI₃ Composite Perovskite Interfacial Layer for Highly Efficient and Stable Mixed-Ion Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 13482-13491.	5.1	7
25	Evolution of the sensitized Er3+ emission by silicon nanoclusters and luminescence centers in silicon-rich silica. Nanoscale Research Letters, 2014, 9, 456.	5.7	6
26	Multifunctional Thiophene-Based Interfacial Passivating Layer for High-Performance Perovskite Solar Cells. ACS Applied Energy Materials, 2022, 5, 6823-6832.	5.1	6
27	Temperature dependence of sensitized Er3+ luminescence in silicon-rich oxynitride films. Nanoscale Research Letters, 2014, 9, 489.	5.7	5
28	Sensitized electroluminescence from erbium doped silicon rich oxynitride light emitting devices. Journal of Luminescence, 2021, 235, 118009.	3.1	5
29	<i>In-situ</i> growth of high-density ultrafine Ag₃PO₄ nanoparticles on 3D TiO₂ hierarchical spheres for enhanced photocatalytic degradation of organic pollutants. Nanotechnology, 2020, 31, 485702.	2.6	5
30	Additive engineering on spiro-OMeTAD hole transport material for CsPbI3 all-inorganic perovskite solar cells with improved performance and stability. Journal of Alloys and Compounds, 2022, 911, 164972.	5.5	5
31	Enhanced emission from CH₃NH₃PbBr₃ perovskite films by graphene quantum dot modification. Materials Research Express, 2020, 7, 016415.	1.6	4
32	Activation and Deactivation of Silicon Surface Passivation by Niobium Oxide Films. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	2
33	Ultrathin Aluminum Oxide Films Induced by Rapid Thermal Annealing for Effective Silicon Surface Passivation. Physica Status Solidi - Rapid Research Letters, 0, , 2100267.	2.4	1