Jixian Xu

List of Publications by Citations

27 papers	6,840 citations	23 h-index	29 g-index
29 ext. papers	7,866 ext. citations	19.2 avg, IF	5.44 L-index

#	Paper	IF	Citations
27	Homogeneously dispersed multimetal oxygen-evolving catalysts. *Science*, **2016**, 352, 333-7	33.3	1459
26	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. *Nature*, **2016**, 537, 382-386	36.4	997
25	Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. *Nature Communications*, **2015**, 6, 7081	17.4	815
24	Materials processing routes to trap-free halide perovskites. *Nano Letters*, **2014**, 14, 6281-6	11.5	567
23	Air-stable n-type colloidal quantum dot solids. *Nature Materials*, **2014**, 13, 822-8	27	466
22	Triple-halide wide-band gap perovskites with suppressed phase segregation for efficient tandems. *Science*, **2020**, 367, 1097-1104	33.3	366
21	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. *Advanced Materials*, **2016**, 28, 299-304	24	279
20	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. *Nano Letters*, **2016**, 16, 4630-4	11.5	275
19	Halide-Dependent Electronic Structure of Organolead Perovskite Materials. *Chemistry of Materials*, **2015**, 27, 4405-4412	9.6	251
18	Sensitive, Fast, and Stable Perovskite Photodetectors Exploiting Interface Engineering. *ACS Photonics*, **2015**, 2, 1117-1123	6.3	247
17	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. *Nature Nanotechnology*, **2018**, 13, 456-462	28.7	196
16	Perovskite thin films via atomic layer deposition. *Advanced Materials*, **2015**, 27, 53-8	24	171
15	Graded doping for enhanced colloidal quantum dot photovoltaics. *Advanced Materials*, **2013**, 25, 1719-23	24	150
14	Crosslinked Remote-Doped Hole-Extracting Contacts Enhance Stability under Accelerated Lifetime Testing in Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 2807-15	24	94
13	A two-step route to planar perovskite cells exhibiting reduced hysteresis. *Applied Physics Letters*, **2015**, 106, 143902	3.4	74
12	Mobile Ion Concentration Measurement and Open-Access Band Diagram Simulation Platform for Halide Perovskite Solar Cells. *Joule*, **2020**, 4, 109-127	27.8	72
11	Field-emission from quantum-dot-in-perovskite solids. *Nature Communications*, **2017**, 8, 14757	17.4	68

10	Pseudohalide-Exchanged Quantum Dot Solids Achieve Record Quantum Efficiency in Infrared Photovoltaics. *Advanced Materials*, **2017**, 29, 1700749	24	61
9	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. *Advanced Materials*, **2018**, 30, e1801661	24	58
8	Enhanced Open-Circuit Voltage in Colloidal Quantum Dot Photovoltaics via Reactivity-Controlled Solution-Phase Ligand Exchange. *Advanced Materials*, **2017**, 29, 1703627	24	42
7	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. *Nano Letters*, **2018**, 18, 7052-7059	11.5	42
6	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. *Nature Communications*, **2018**, 9, 4003	17.4	39
5	Solution-Processed In2O3/ZnO Heterojunction Electron Transport Layers for Efficient Organic Bulk Heterojunction and Inorganic Colloidal Quantum-Dot Solar Cells. *Solar Rrl*, **2018**, 2, 1800076	7.1	32
4	Perovskite tandem solar cells with improved efficiency and stability. *Journal of Energy Chemistry*, **2021**, 58, 219-232	12	9
3	Atomic layer deposition of absorbing thin films on nanostructured electrodes for short-wavelength infrared photosensing. *Applied Physics Letters*, **2015**, 107, 153105	3.4	4
2	Fast Wetting of a Fullerene Capping Layer Improves the Efficiency and Scalability of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 37265-37274	9.5	3
1	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). *Advanced Materials*, **2018**, 30, 1870260	24	3