

# Jixian Xu

## List of Publications by Year in descending order

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29  
papers

8,817  
citations

257101

24  
h-index

525886

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

13715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016, 352, 333-337.	6.0	1,948
2	Enhanced electrocatalytic CO <sub>2</sub> reduction via field-induced reagent concentration. <i>Nature</i> , 2016, 537, 382-386.	13.7	1,429
3	Perovskiteâ€‘fullerene hybrid materials suppress hysteresis in planar diodes. <i>Nature Communications</i> , 2015, 6, 7081.	5.8	948
4	Materials Processing Routes to Trap-Free Halide Perovskites. <i>Nano Letters</i> , 2014, 14, 6281-6286.	4.5	671
5	Triple-halide wideâ€‘band gap perovskites with suppressed phase segregation for efficient tandems. <i>Science</i> , 2020, 367, 1097-1104.	6.0	669
6	Air-stable n-type colloidal quantum dot solids. <i>Nature Materials</i> , 2014, 13, 822-828.	13.3	529
7	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. <i>Nano Letters</i> , 2016, 16, 4630-4634.	4.5	312
8	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , 2016, 28, 299-304.	11.1	312
9	Halide-Dependent Electronic Structure of Organolead Perovskite Materials. <i>Chemistry of Materials</i> , 2015, 27, 4405-4412.	3.2	305
10	Sensitive, Fast, and Stable Perovskite Photodetectors Exploiting Interface Engineering. <i>ACS Photonics</i> , 2015, 2, 1117-1123.	3.2	292
11	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018, 13, 456-462.	15.6	252
12	Perovskite Thin Films via Atomic Layer Deposition. <i>Advanced Materials</i> , 2015, 27, 53-58.	11.1	204
13	Graded Doping for Enhanced Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2013, 25, 1719-1723.	11.1	164
14	Mobile Ion Concentration Measurement and Open-Access Band Diagram Simulation Platform for Halide Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 109-127.	11.7	117
15	Crosslinked Remoteâ€‘Doped Holeâ€‘Extracting Contacts Enhance Stability under Accelerated Lifetime Testing in Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 2807-2815.	11.1	108
16	Field-emission from quantum-dot-in-perovskite solids. <i>Nature Communications</i> , 2017, 8, 14757.	5.8	83
17	A two-step route to planar perovskite cells exhibiting reduced hysteresis. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	80
18	Pseudohalideâ€‘Exchanged Quantum Dot Solids Achieve Record Quantum Efficiency in Infrared Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1700749.	11.1	79

#	ARTICLE	IF	CITATIONS
19	Overcoming the Ambient Manufacturabilityâ€Scalabilityâ€Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018, 30, e1801661.	11.1	79
20	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. <i>Nature Communications</i> , 2018, 9, 4003.	5.8	56
21	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018, 18, 7052-7059.	4.5	51
22	Enhanced Openâ€Circuit Voltage in Colloidal Quantum Dot Photovoltaics via Reactivityâ€Controlled Solutionâ€Phase Ligand Exchange. <i>Advanced Materials</i> , 2017, 29, 1703627.	11.1	49
23	Solutionâ€Processed In<sub>2</sub>/O<sub>3</sub>/ZnO Heterojunction Electron Transport Layers for Efficient Organic Bulk Heterojunction and Inorganic Colloidal Quantumâ€Dot Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800076.	3.1	34
24	Perovskite tandem solar cells with improved efficiency and stability. <i>Journal of Energy Chemistry</i> , 2021, 58, 219-232.	7.1	32
25	Fast Wetting of a Fullerene Capping Layer Improves the Efficiency and Scalability of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37265-37274.	4.0	6
26	Atomic layer deposition of absorbing thin films on nanostructured electrodes for short-wavelength infrared photosensing. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	5
27	Solar Cells: Overcoming the Ambient Manufacturabilityâ€Scalabilityâ€Performance Bottleneck in Colloidal Quantum Dot Photovoltaics ( <i>Adv. Mater.</i> 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870260.	11.1	3
28	Three-dimensional contour reconstruction of push-broom range-gated lidar data: case studies. , 2011, , .		0
29	Triple-halide Bandgap Tuning In Top Cells For Perovskite/Si Tandems. , 2019, , .		0