

# Fengjia Fan

## List of Publications by Citations

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45  
papers

8,138  
citations

30  
h-index

48  
g-index

48  
ext. papers

9,420  
ext. citations

19.5  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
45	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. <i>Science</i> , <b>2017</b> , 355, 722-726	33.3	1667
44	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , <b>2016</b> , 352, 333-7	33.3	1459
43	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , <b>2016</b> , 537, 382-384	38.4	997
42	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. <i>Nature Materials</i> , <b>2017</b> , 16, 258-263	27	432
41	Quantum-dot-in-perovskite solids. <i>Nature</i> , <b>2015</b> , 523, 324-8	50.4	382
40	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , <b>2016</b> , 28, 299-304	24	279
39	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. <i>Nano Letters</i> , <b>2016</b> , 16, 4630-4	11.5	275
38	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8757-8763	15.6	265
37	Continuous-wave lasing in colloidal quantum dot solids enabled by facet-selective epitaxy. <i>Nature</i> , <b>2017</b> , 544, 75-79	50.4	225
36	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. <i>Nature Photonics</i> , <b>2018</b> , 12, 159-164	33.9	206
35	High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. <i>Nano Letters</i> , <b>2015</b> , 15, 7691-6	11.5	175
34	Stretchable conductors based on silver nanowires: improved performance through a binary network design. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1654-9	16.4	168
33	Reversible 3D laser printing of perovskite quantum dots inside a transparent medium. <i>Nature Photonics</i> , <b>2020</b> , 14, 82-88	33.9	168
32	Colloidal synthesis of Cu <sub>2</sub> CdSnSe <sub>4</sub> nanocrystals and hot-pressing to enhance the thermoelectric figure-of-merit. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 15910-3	16.4	132
31	Large-scale colloidal synthesis of non-stoichiometric Cu <sub>2</sub> ZnSnSe <sub>4</sub> nanocrystals for thermoelectric applications. <i>Advanced Materials</i> , <b>2012</b> , 24, 6158-63	24	119
30	Superlong beta-AgVO <sub>3</sub> nanoribbons: high-yield synthesis by a pyridine-assisted solution approach, their stability, electrical and electrochemical properties. <i>ACS Nano</i> , <b>2009</b> , 3, 653-60	16.7	110
29	Colloidal CdSe(1-x)S(x) Nanoplatelets with Narrow and Continuously-Tunable Electroluminescence. <i>Nano Letters</i> , <b>2015</b> , 15, 4611-5	11.5	100

28	Microsecond-sustained lasing from colloidal quantum dot solids. <i>Nature Communications</i> , <b>2015</b> , 6, 8694	17.4	91
27	Ultrafast narrowband exciton routing within layered perovskite nanoplatelets enables low-loss luminescent solar concentrators. <i>Nature Energy</i> , <b>2019</b> , 4, 197-205	62.3	87
26	Multifunctional quantum dot DNA hydrogels. <i>Nature Communications</i> , <b>2017</b> , 8, 381	17.4	80
25	Composition- and band-gap-tunable synthesis of wurtzite-derived $\text{Cu}_x\text{Zn}_{1-x}\text{Sn}(\text{S}(1-x)\text{Se}(x))$ nanocrystals: theoretical and experimental insights. <i>ACS Nano</i> , <b>2013</b> , 7, 1454-63	16.7	77
24	Pt-Ni alloyed nanocrystals with controlled architectures for enhanced methanol oxidation. <i>Chemical Communications</i> , <b>2013</b> , 49, 8704-6	5.8	61
23	$\text{Cu}(1.94)\text{S}$ nanocrystal seed mediated solution-phase growth of unique $\text{Cu}_2\text{S-PbS}$ heteronanostructures. <i>Chemical Communications</i> , <b>2012</b> , 48, 9762-4	5.8	59
22	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805580	24	55
21	Selective hydrogenation of nitroaromatics by ceria nanorods. <i>Nanoscale</i> , <b>2013</b> , 5, 7219-23	7.7	53
20	Origins of Stokes Shift in PbS Nanocrystals. <i>Nano Letters</i> , <b>2017</b> , 17, 7191-7195	11.5	45
19	Polytypic Nanocrystals of Cu-Based Ternary Chalcogenides: Colloidal Synthesis and Photoelectrochemical Properties. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5576-84	16.4	44
18	Linearly arranged polytypic CZTSSe nanocrystals. <i>Scientific Reports</i> , <b>2012</b> , 2, 952	4.9	41
17	Design of Phosphor White Light Systems for High-Power Applications. <i>ACS Photonics</i> , <b>2016</b> , 3, 2243-2248	6.3	33
16	Controlled synthesis of kinked ultrathin ZnS nanorods/nanowires triggered by chloride ions: a case study. <i>Small</i> , <b>2014</b> , 10, 1394-402	11	32
15	A family of carbon-based nanocomposite tubular structures created by in situ electron beam irradiation. <i>ACS Nano</i> , <b>2012</b> , 6, 4500-7	16.7	30
14	Efficient defect passivation of $\text{Sb}_2\text{Se}_3$ film by tellurium doping for high performance solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6510-6516	13	27
13	Quantum Dot-Plasmon Lasing with Controlled Polarization Patterns. <i>ACS Nano</i> , <b>2020</b> , 14, 3426-3433	16.7	26
12	Regioselective magnetization in semiconducting nanorods. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 192-197	28.7	25
11	Engineering Directionality in Quantum Dot Shell Lasing Using Plasmonic Lattices. <i>Nano Letters</i> , <b>2020</b> , 20, 1468-1474	11.5	21

10	Selective epitaxial growth of zinc blende-derivative on wurtzite-derivative: the case of polytypic Cu <sub>2</sub> CdSn(S(1-x)Se(x)) <sub>4</sub> nanocrystals. <i>Nanoscale</i> , <b>2014</b> , 6, 3418-22	7.7	17
9	Quantum Dot Color-Converting Solids Operating Efficiently in the kW/cm <sup>2</sup> Regime. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5104-5112	9.6	15
8	Pulsed axial epitaxy of colloidal quantum dots in nanowires enables facet-selective passivation. <i>Nature Communications</i> , <b>2018</b> , 9, 4947	17.4	15
7	Bulk-like ZnSe Quantum Dots Enabling Efficient Ultranarrow Blue Light-Emitting Diodes. <i>Nano Letters</i> , <b>2021</b> , 21, 7252-7260	11.5	12
6	Temperature-Induced Self-Compensating Defect Traps and Gain Thresholds in Colloidal Quantum Dots. <i>ACS Nano</i> , <b>2019</b> , 13, 8970-8976	16.7	7
5	One-Dimensional Superlattice Heterostructure Library. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 7013-7020	16.4	6
4	Atomic layer deposition of absorbing thin films on nanostructured electrodes for short-wavelength infrared photosensing. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 153105	3.4	4
3	Enhanced emission directivity from asymmetrically strained colloidal quantum dots. <i>Science Advances</i> , <b>2022</b> , 8, eabl8219	14.3	2
2	Optical-Gain-based Sensing Using Inorganic-Ligand-Passivated Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2021</b> , 21, 7732-7739	11.5	1
1	Reply to: Perovskite decomposition and missing crystal planes in HRTEM. <i>Nature</i> , <b>2021</b> , 594, E8-E9	50.4	