

Fengjia Fan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enhanced emission directivity from asymmetrically strained colloidal quantum dots.. <i>Science Advances</i> , 2022 , 8, eabl8219	14.3	2
44	One-Dimensional Superlattice Heterostructure Library. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7013-7020	16.4	6
43	Reply to: Perovskite decomposition and missing crystal planes in HRTEM. <i>Nature</i> , 2021 , 594, E8-E9	50.4	
42	Bulk-like ZnSe Quantum Dots Enabling Efficient Ultranarrow Blue Light-Emitting Diodes. <i>Nano Letters</i> , 2021 , 21, 7252-7260	11.5	12
41	Optical-Gain-based Sensing Using Inorganic-Ligand-Passivated Colloidal Quantum Dots. <i>Nano Letters</i> , 2021 , 21, 7732-7739	11.5	1
40	Efficient defect passivation of Sb ₂ Se ₃ film by tellurium doping for high performance solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6510-6516	13	27
39	Quantum Dot-Plasmon Lasing with Controlled Polarization Patterns. <i>ACS Nano</i> , 2020 , 14, 3426-3433	16.7	26
38	Engineering Directionality in Quantum Dot Shell Lasing Using Plasmonic Lattices. <i>Nano Letters</i> , 2020 , 20, 1468-1474	11.5	21
37	Regioselective magnetization in semiconducting nanorods. <i>Nature Nanotechnology</i> , 2020 , 15, 192-197	28.7	25
36	Reversible 3D laser printing of perovskite quantum dots inside a transparent medium. <i>Nature Photonics</i> , 2020 , 14, 82-88	33.9	168
35	Ultrafast narrowband exciton routing within layered perovskite nanoplatelets enables low-loss luminescent solar concentrators. <i>Nature Energy</i> , 2019 , 4, 197-205	62.3	87
34	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019 , 31, e1805580	24	55
33	Temperature-Induced Self-Compensating Defect Traps and Gain Thresholds in Colloidal Quantum Dots. <i>ACS Nano</i> , 2019 , 13, 8970-8976	16.7	7
32	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. <i>Nature Photonics</i> , 2018 , 12, 159-164	33.9	206
31	Pulsed axial epitaxy of colloidal quantum dots in nanowires enables facet-selective passivation. <i>Nature Communications</i> , 2018 , 9, 4947	17.4	15
30	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. <i>Science</i> , 2017 , 355, 722-726	33.3	1667
29	Quantum Dot Color-Converting Solids Operating Efficiently in the kW/cm ² Regime. <i>Chemistry of Materials</i> , 2017 , 29, 5104-5112	9.6	15

28	Continuous-wave lasing in colloidal quantum dot solids enabled by facet-selective epitaxy. <i>Nature</i> , 2017 , 544, 75-79	50.4	225
27	Origins of Stokes Shift in PbS Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 7191-7195	11.5	45
26	Multifunctional quantum dot DNA hydrogels. <i>Nature Communications</i> , 2017 , 8, 381	17.4	80
25	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. <i>Nature Materials</i> , 2017 , 16, 258-263	27	432
24	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 8757-8763	15.6	265
23	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. <i>Nano Letters</i> , 2016 , 16, 4630-4	11.5	275
22	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , 2016 , 28, 299-304	24	279
21	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
20	Design of Phosphor White Light Systems for High-Power Applications. <i>ACS Photonics</i> , 2016 , 3, 2243-2248	6.3	33
19	Polytypic Nanocrystals of Cu-Based Ternary Chalcogenides: Colloidal Synthesis and Photoelectrochemical Properties. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5576-84	16.4	44
18	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-386	38.4	997
17	Quantum-dot-in-perovskite solids. <i>Nature</i> , 2015 , 523, 324-8	50.4	382
16	Microsecond-sustained lasing from colloidal quantum dot solids. <i>Nature Communications</i> , 2015 , 6, 8694	17.4	91
15	High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. <i>Nano Letters</i> , 2015 , 15, 7691-6	11.5	175
14	Atomic layer deposition of absorbing thin films on nanostructured electrodes for short-wavelength infrared photosensing. <i>Applied Physics Letters</i> , 2015 , 107, 153105	3.4	4
13	Colloidal CdSe(1-x)S(x) Nanoplatelets with Narrow and Continuously-Tunable Electroluminescence. <i>Nano Letters</i> , 2015 , 15, 4611-5	11.5	100
12	Selective epitaxial growth of zinc blende-derivative on wurtzite-derivative: the case of polytypic Cu ₂ CdSn(S(1-x)Se(x)) ₄ nanocrystals. <i>Nanoscale</i> , 2014 , 6, 3418-22	7.7	17
11	Controlled synthesis of kinked ultrathin ZnS nanorods/nanowires triggered by chloride ions: a case study. <i>Small</i> , 2014 , 10, 1394-402	11	32

10	Pt-Ni alloyed nanocrystals with controlled architectures for enhanced methanol oxidation. <i>Chemical Communications</i> , 2013 , 49, 8704-6	5.8	61
9	Composition- and band-gap-tunable synthesis of wurtzite-derived $\text{CuZnSn(S(1-x)Se(x))}$ nanocrystals: theoretical and experimental insights. <i>ACS Nano</i> , 2013 , 7, 1454-63	16.7	77
8	Stretchable conductors based on silver nanowires: improved performance through a binary network design. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1654-9	16.4	168
7	Selective hydrogenation of nitroaromatics by ceria nanorods. <i>Nanoscale</i> , 2013 , 5, 7219-23	7.7	53
6	Linearly arranged polytypic CZTSSe nanocrystals. <i>Scientific Reports</i> , 2012 , 2, 952	4.9	41
5	A family of carbon-based nanocomposite tubular structures created by in situ electron beam irradiation. <i>ACS Nano</i> , 2012 , 6, 4500-7	16.7	30
4	Cu(1.94)S nanocrystal seed mediated solution-phase growth of unique $\text{Cu}_2\text{S-PbS}$ heteronanostructures. <i>Chemical Communications</i> , 2012 , 48, 9762-4	5.8	59
3	Large-scale colloidal synthesis of non-stoichiometric $\text{Cu}_2\text{ZnSnSe}_4$ nanocrystals for thermoelectric applications. <i>Advanced Materials</i> , 2012 , 24, 6158-63	24	119
2	Colloidal synthesis of $\text{Cu}_2\text{CdSnSe}_4$ nanocrystals and hot-pressing to enhance the thermoelectric figure-of-merit. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15910-3	16.4	132
1	Superlong beta- AgVO_3 nanoribbons: high-yield synthesis by a pyridine-assisted solution approach, their stability, electrical and electrochemical properties. <i>ACS Nano</i> , 2009 , 3, 653-60	16.7	110