Zhi-Kuang Tan

List of Publications by Year
in descending order

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28 papers	7,222 citations	331670 21 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	8850 citing authors

#	Article	IF	Citations
1	Bright light-emitting diodes based on organometal halide perovskite. Nature Nanotechnology, 2014, 9, 687-692.	31.5	3,627
2	Highly Efficient Perovskite Nanocrystal Lightâ€Emitting Diodes Enabled by a Universal Crosslinking Method. Advanced Materials, 2016, 28, 3528-3534.	21.0	782
3	Interfacial Control Toward Efficient and Lowâ€Voltage Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2015, 27, 2311-2316.	21.0	631
4	Efficient Light-Emitting Diodes Based on Nanocrystalline Perovskite in a Dielectric Polymer Matrix. Nano Letters, 2015, 15, 2640-2644.	9.1	621
5	Enhanced Performance in Fluoreneâ€Free Organometal Halide Perovskite Lightâ€Emitting Diodes using Tunable, Low Electron Affinity Oxide Electron Injectors. Advanced Materials, 2015, 27, 1414-1419.	21.0	283
6	Large-area near-infrared perovskite light-emitting diodes. Nature Photonics, 2020, 14, 215-218.	31.4	263
7	Size-Dependent Photon Emission from Organometal Halide Perovskite Nanocrystals Embedded in an Organic Matrix. Journal of Physical Chemistry Letters, 2015, 6, 446-450.	4.6	160
8	Opportunities and Challenges in Perovskite Light-Emitting Devices. ACS Photonics, 2018, 5, 3866-3875.	6.6	129
9	Tunable Near-Infrared Luminescence in Tin Halide Perovskite Devices. Journal of Physical Chemistry Letters, 2016, 7, 2653-2658.	4.6	122
10	Photo-induced thiol coupling and Câ€“H activation using nanocrystalline lead-halide perovskite catalysts. Catalysis Science and Technology, 2018, 8, 4257-4263.	4.1	106
11	Perovskiteâ€Initiated Photopolymerization for Singly Dispersed Luminescent Nanocomposites. Advanced Materials, 2018, 30, e1800774.	21.0	78
12	Suppressing Recombination in Polymer Photovoltaic Devices via Energyâ€Level Cascades. Advanced Materials, 2013, 25, 4131-4138.	21.0	57
13	Transparent near-infrared perovskite light-emitting diodes. Nature Communications, 2020, 11, 4213.	12.8	40
14	Thermodynamic Control in the Synthesis of Quantum-Confined Blue-Emitting CsPbBr₃ Perovskite Nanostrips. Journal of Physical Chemistry Letters, 2020, 11, 2036-2043.	4.6	39
15	Structure formation in P3HT/F8TBT blends. Energy and Environmental Science, 2014, 7, 1725-1736.	30.8	36
16	Color Patterning of Luminescent Perovskites via Lightâ€Mediated Halide Exchange with Haloalkanes. Advanced Materials, 2019, 31, e1901247.	21.0	35
17	Inâ€Situ Switching from Barrierâ€Limited to Ohmic Anodes for Efficient Organic Optoelectronics. Advanced Functional Materials, 2014, 24, 3051-3058.	14.9	33
18	Magnetoâ€Fluorescent Perovskite Nanocomposites for Directed Cell Motion and Imaging. Advanced Healthcare Materials, 2019, 8, e1900859.	7.6	31

#	Article	IF	Citations
19	Prussian White with Near-Maximum Specific Capacity in Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 6214-6220.	5.1	29
20	Efficient Nearâ€Infrared Lightâ€Emitting Diodes based on In(Zn)Asâ€“In(Zn)Pâ€“GaPâ€“ZnS Quantum Dots. Advanced Functional Materials, 2020, 30, 1906483.	14.9	28
21	Highâ€Capacity Sodiumâ€“Prussian Blue Rechargeable Battery through Chelationâ€Induced Nanoâ€Porosity. Advanced Materials Interfaces, 2020, 7, 2000853.	3.7	22
22	Large-Stokes-Shifted Infrared-Emitting InAsâ€“In(Zn)Pâ€“ZnSeâ€“ZnS Giant-Shell Quantum Dots by One-Pot Continuous-Injection Synthesis. Chemistry of Materials, 2019, 31, 2019-2026.	6.7	21
23	Impact of the Structural Modification of Diamondoid Cd(II) MOFs on the Nonlinear Optical Properties. ACS Applied Materials & Interfaces, 2021, 13, 60163-60172.	8.0	13
24	Tuning the Emission Wavelength of Lead Halide Perovskite NCs via Size and Shape Control. ACS Omega, 2022, 7, 565-577.	3.5	13
25	Ultra-Confined Visible-Light-Emitting Colloidal Indium Arsenide Quantum Dots. Nano Letters, 2021, 21, 5167-5172.	9.1	12
26	High Quantum Yield Waterâ€Dispersed Nearâ€Infrared In(Zn)Asâ€“In(Zn)Pâ€“GaPâ€“ZnS Quantum Dots with Robust Stability for Bioimaging. Advanced Materials Interfaces, 2020, 7, 2000920.	3.7	6
27	The Role of Subsurface Valence Band Localization in the Passivation of Perovskite Nanocrystals. Advanced Optical Materials, 2022, 10, 2101914.	7.3	3
28	Deep Fluorescence Imaging by Laserâ€Scanning Excitation and Artificial Neural Network Processing. Advanced Optical Materials, 2020, 8, 2000390.	7.3	2