

Yuan Gao

List of Publications by Year in descending order

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47
papers

3,785
citations

218381

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docs citations

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times ranked

4772
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolithic all-perovskite tandem solar cells with 24.8% efficiency exploiting comproportionation to suppress Sn(II) oxidation in precursor ink. <i>Nature Energy</i> , 2019, 4, 864-873.	19.8	736
2	All-perovskite tandem solar cells with 24.2% certified efficiency and area over 1 cm ² using surface-anchoring zwitterionic antioxidant. <i>Nature Energy</i> , 2020, 5, 870-880.	19.8	497
3	Simultaneous Contact and Grain Boundary Passivation in Planar Perovskite Solar Cells Using SnO ₂ -KCl Composite Electron Transport Layer. <i>Advanced Energy Materials</i> , 2020, 10, 1903083.	10.2	323
4	All-inorganic Quantum Dot LEDs Based on a Phase-Stabilized CsPbI ₃ Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16164-16170.	7.2	210
5	Tin and Mixed Lead-Free Tin Halide Perovskite Solar Cells: Progress and their Application in Tandem Solar Cells. <i>Advanced Materials</i> , 2020, 32, e1907392.	11.1	203
6	Stimulated Emission and Lasing from CdSe/CdS/ZnS Core-Shell Quantum Dots by Simultaneous Three-Photon Absorption. <i>Advanced Materials</i> , 2014, 26, 2954-2961.	11.1	172
7	High Color Purity Lead-Free Perovskite Light-Emitting Diodes via Sn Stabilization. <i>Advanced Science</i> , 2020, 7, 1903213.	5.6	146
8	Color-pure red light-emitting diodes based on two-dimensional lead-free perovskites. <i>Science Advances</i> , 2020, 6, .	4.7	135
9	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , 2016, 6, 36733.	1.6	134
10	Chelating-agent-assisted control of CsPbBr ₃ quantum well growth enables stable blue perovskite emitters. <i>Nature Communications</i> , 2020, 11, 3674.	5.8	112
11	Photo-oxidative degradation of methylammonium lead iodide perovskite: mechanism and protection. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2275-2282.	5.2	105
12	High-Performance Blue Molecular Emitter-Free and Doping-Free Hybrid White Organic Light-Emitting Diodes: an Alternative Concept To Manipulate Charges and Excitons Based on Exciplex and Electropex Emission. <i>ACS Photonics</i> , 2017, 4, 1566-1575.	3.2	73
13	Giant Alloyed Hot Injection Shells Enable Ultralow Optical Gain Threshold in Colloidal Quantum Wells. <i>ACS Nano</i> , 2019, 13, 10662-10670.	7.3	71
14	Extremely Simplified, High-Performance, and Doping-Free White Organic Light-Emitting Diodes Based on a Single Thermally Activated Delayed Fluorescent Emitter. <i>ACS Energy Letters</i> , 2018, 3, 1531-1538.	8.8	70
15	Solution-Processed Monolithic All-Perovskite Triple-Junction Solar Cells with Efficiency Exceeding 20%. <i>ACS Energy Letters</i> , 2020, 5, 2819-2826.	8.8	69
16	Efficient and Stable Thin-Film Luminescent Solar Concentrators Enabled by Near-Infrared Emission Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7738-7742.	7.2	64
17	Nanocrystal light-emitting diodes based on type II nanoplatelets. <i>Nano Energy</i> , 2018, 47, 115-122.	8.2	62
18	Steric Engineering Enables Efficient and Photostable Wide-Bandgap Perovskites for All-Perovskite Tandem Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2110356.	11.1	48

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19	Unraveling the ultralow threshold stimulated emission from CdZnS/ZnS quantum dot and enabling high-Q microlasers. <i>Laser and Photonics Reviews</i> , 2015, 9, 507-516.	4.4	44
20	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanoplatelets. <i>Nanoscale</i> , 2018, 10, 9466-9475.	2.8	43
21	Electro-Optic Modulation in Hybrid Metal Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1808336.	11.1	42
22	Colloidal Quantum Dot Light-Emitting Diodes Employing Phosphorescent Small Organic Molecules as Efficient Exciton Harvesters. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2802-2807.	2.1	41
23	Doping-free white organic light-emitting diodes without blue molecular emitter: An unexplored approach to achieve high performance via exciplex emission. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	39
24	Lattice Distortion in Mixed-Anion Lead Halide Perovskite Nanorods Leads to their High Fluorescence Anisotropy. , 2020, 2, 814-820.		33
25	Coreless Fiber-Based Whispering-Gallery-Mode Assisted Lasing from Colloidal Quantum Well Solids. <i>Advanced Functional Materials</i> , 2020, 30, 1907417.	7.8	31
26	Deep-Blue Perovskite Single-Mode Lasing through Efficient Vapor-Assisted Chlorination. <i>Advanced Materials</i> , 2021, 33, e2006697.	11.1	30
27	Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network. <i>Advanced Optical Materials</i> , 2014, 2, 40-47.	3.6	29
28	Quantum Dot Self-Assembly Enables Low-Threshold Lasing. <i>Advanced Science</i> , 2021, 8, e2101125.	5.6	28
29	Observation of polarized gain from aligned colloidal nanorods. <i>Nanoscale</i> , 2015, 7, 6481-6486.	2.8	24
30	Thermally Stable All-Perovskite Tandem Solar Cells Fully Using Metal Oxide Charge Transport Layers and Tunnel Junction. <i>Solar Rrl</i> , 2021, 5, 2100814.	3.1	24
31	Linear Electro-Optic Modulation in Highly Polarizable Organic Perovskites. <i>Advanced Materials</i> , 2021, 33, e2006368.	11.1	20
32	Azimuthally Polarized, Circular Colloidal Quantum Dot Laser Beam Enabled by a Concentric Grating. <i>ACS Photonics</i> , 2016, 3, 2255-2261.	3.2	18
33	Polarization-Resolved Plasmon-Modulated Emissions of Quantum Dots Coupled to Aluminum Dimers with Sub-20 nm Gaps. <i>ACS Photonics</i> , 2018, 5, 1566-1574.	3.2	17
34	Record Photocurrent Density over $26\% \text{cm}^{-2}$ in Planar Perovskite Solar Cells Enabled by Antireflective Cascaded Electron Transport Layer. <i>Solar Rrl</i> , 2020, 4, 2000169.	3.1	17
35	Engineering Quantum Dots with Different Emission Wavelengths and Specific Fluorescence Lifetimes for Spectrally and Temporally Multiplexed Imaging of Cells. <i>Nanotheranostics</i> , 2017, 1, 131-140.	2.7	15
36	Green Stimulated Emission Boosted by Nonradiative Resonant Energy Transfer from Blue Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2772-2778.	2.1	12

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37	Electro-Optic Modulation Using Metal-Free Perovskites. ACS Applied Materials & Interfaces, 2021, 13, 19042-19047.	4.0	12
38	InP-Quantum-Dot-in-ZnS-Matrix Solids for Thermal and Air Stability. Chemistry of Materials, 2020, 32, 9584-9590.	3.2	8
39	Efficient and Stable Thin-Film Luminescent Solar Concentrators Enabled by Near-Infrared Emission Perovskite Nanocrystals. Angewandte Chemie, 2020, 132, 7812-7816.	1.6	6
40	Self-Aligned Non-Centrosymmetric Conjugated Molecules Enable Electro-Optic Perovskites. Advanced Optical Materials, 0, , 2100730.	3.6	6
41	Manipulating Optical Properties of ZnO/Ga:ZnO Core-Shell Nanorods Via Spatially Tailoring Electronic Bandgap. Advanced Optical Materials, 2015, 3, 1066-1071.	3.6	5
42	Plasmon-exciton systems with high quantum yield using deterministic aluminium nanostructures with rotational symmetries. Nanoscale, 2019, 11, 20315-20323.	2.8	4
43	Nonlinear Optics: Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network (Advanced Optical Materials 1/2014). Advanced Optical Materials, 2014, 2, 39-39.	3.6	2
44	Unusual Fluorescent Properties of Stilbene Units and CdZnS/ZnS Quantum Dots Nanocomposites: White-Light Emission in Solution versus Light-Harvesting in Films. Macromolecular Chemistry and Physics, 2016, 217, 24-31.	1.1	2
45	Quantum Dots: Blue Liquid Lasers from Solution of CdZnS/ZnS Ternary Alloy Quantum Dots with Quasi-Continuous Pumping (Adv. Mater. 1/2015). Advanced Materials, 2015, 27, 168-168.	11.1	1
46	Inverted Type-I CdS/CdSe Core/Crown colloidal quantum ring. , 2017, , .		1
47	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized CsPbI_3 Perovskite. Angewandte Chemie, 2021, 133, 16300-16306.	1.6	1