Yang Michael Yang

List of Publications by Year
in descending order

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56 papers	11,431 citations	117453 34 h-index	138251 58 g-index
60 all docs	60 docs citations	60 times ranked	11712 citing authors

#	Article	IF	Citations
1	Polymer solar cells. Nature Photonics, 2012, 6, 153-161.	15.6	4,041
2	Next-generation organic photovoltaics based on non-fullerene acceptors. Nature Photonics, 2018, 12, 131-142.	15.6	1,535
3	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. Nature Communications, 2017, 8, 15640.	5.8	669
4	10.2% Power Conversion Efficiency Polymer Tandem Solar Cells Consisting of Two Identical Subâ€Cells. Advanced Materials, 2013, 25, 3973-3978.	11.1	419
5	Highly sensitive X-ray detector made of layered perovskite-like (NH4)3Bi2I9 single crystal with anisotropic response. Nature Photonics, 2019, 13, 602-608.	15.6	391
6	Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. Nature Communications, 2019, 10, 570.	5.8	377
7	High-performance perovskite/Cu(In,Ga)Se ₂ monolithic tandem solar cells. Science, 2018, 361, 904-908.	6.0	314
8	Make perovskite solar cells stable. Nature, 2017, 544, 155-156.	13.7	304
9	Low-dose real-time X-ray imaging with nontoxic double perovskite scintillators. Light: Science and Applications, 2020, 9, 112.	7.7	272
10	Organic phosphors with bright triplet excitons for efficient X-ray-excited luminescence. Nature Photonics, 2021, 15, 187-192.	15.6	237
11	Tailored Phase Conversion under Conjugated Polymer Enables Thermally Stable Perovskite Solar Cells with Efficiency Exceeding 21%. Journal of the American Chemical Society, 2018, 140, 17255-17262.	6.6	235
12	Shining Emitter in a Stable Host: Design of Halide Perovskite Scintillators for X-ray Imaging from Commercial Concept. ACS Nano, 2020, 14, 5183-5193.	7.3	205
13	Colloidal Synthesis and Optical Properties of Allâ€Inorganic Lowâ€Dimensional Cesium Copper Halide Nanocrystals. Angewandte Chemie - International Edition, 2019, 58, 16087-16091.	7.2	192
14	Highâ€Performance Organic Bulkâ€Heterojunction Solar Cells Based on Multipleâ€Donor or Multipleâ€Acceptor Components. Advanced Materials, 2018, 30, 1705706.	11.1	161
15	Highly Efficient and Tunable Emission of Leadâ€Free Manganese Halides toward White Lightâ€Emitting Diode and Xâ€Ray Scintillation Applications. Advanced Functional Materials, 2021, 31, 2009973.	7.8	160
16	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. Materials Horizons, 2015, 2, 203-211.	6.4	148
17	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. Nature Materials, 2022, 21, 210-216.	13.3	146
18	Reproducible Xâ€ray Imaging with a Perovskite Nanocrystal Scintillator Embedded in a Transparent Amorphous Network Structure. Advanced Materials, 2021, 33, e2102529.	11.1	140

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19	Highly Resolved and Robust Dynamic Xâ€Ray Imaging Using Perovskite Glassâ€Ceramic Scintillator with Reduced Light Scattering. Advanced Science, 2021, 8, e2003728.	5.6	128
20	Ultrafast self-trapping of photoexcited carriers sets the upper limit on antimony trisulfide photovoltaic devices. Nature Communications, 2019, 10, 4540.	5.8	117
21	Efficient and Reproducible Monolithic Perovskite/Organic Tandem Solar Cells with Low-Loss Interconnecting Layers. Joule, 2020, 4, 1594-1606.	11.7	116
22	Highâ€Performance Allâ€Polymer Solar Cells with a Pseudoâ€Bilayer Configuration Enabled by a Stepwise Optimization Strategy. Advanced Functional Materials, 2021, 31, 2010411.	7.8	99
23	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. Joule, 2021, 5, 1832-1844.	11.7	98
24	Ultrafast Hole Transfer and Carrier Transport Controlled by Nanoscale-Phase Morphology in Nonfullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 3226-3233.	2.1	94
25	Power Conversion Efficiency Enhancement of Low-Bandgap Mixed Pbâ€“Sn Perovskite Solar Cells by Improved Interfacial Charge Transfer. ACS Energy Letters, 2019, 4, 1784-1790.	8.8	76
26	Allâ€Inorganic Perovskite Polymerâ€“Ceramics for Flexible and Refreshable Xâ€Ray Imaging. Advanced Functional Materials, 2022, 32, 2107424.	7.8	69
27	Perovskite semiconductors for direct X-ray detection and imaging. Journal of Semiconductors, 2020, 41, 051204.	2.0	68
28	Realizing High Efficiency over 20% of Lowâ€Bandgap Pbâ€“Snâ€Alloyed Perovskite Solar Cells by In Situ Reduction of Sn⁴⁺. Solar Rrl, 2020, 4, 1900467.	3.1	65
29	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. Energy and Environmental Science, 2022, 15, 855-865.	15.6	62
30	Surface Reconstruction for Stable Monolithic Allâ€Inorganic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency. Advanced Functional Materials, 2022, 32, .	7.8	47
31	Highly Efficient NaGdF₄:Ce/Tb Nanoscintillator with Reduced Afterglow and Light Scattering for High-Resolution X-ray Imaging. ACS Applied Materials & Interfaces, 2021, 13, 44596-44603.	4.0	44
32	Dopant-free hole transporting materials with supramolecular interactions and reverse diffusion for efficient and modular p-i-n perovskite solar cells. Science China Chemistry, 2020, 63, 987-996.	4.2	42
33	In Situ Fabrication of Cs₃Cu₂I₅: Tl Nanocrystal Films for High-Resolution and Ultrastable X-ray Imaging. Journal of Physical Chemistry Letters, 2022, 13, 2862-2870.	2.1	39
34	Influence of Isomerism on Radioluminescence of Purely Organic Phosphorescence Scintillators. Angewandte Chemie - International Edition, 2021, 60, 27195-27200.	7.2	35
35	Large-area perovskite solar cells. Science Bulletin, 2020, 65, 872-875.	4.3	34
36	Highly Emissive and Stable Fiveâ€Coordinated Manganese(II) Complex for Xâ€Ray Imaging. Laser and Photonics Reviews, 2021, 15, 2100309.	4.4	33

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37	19.34â€‰â€‰cm² large-area quaternary organic photovoltaic module with 12.36% certified efficiency. Photonics Research, 2021, 9, 324.	3.4	20
38	Highâ€Efficiency Organic Tandem Solar Cells With Effective Transition Metal Chelates Interconnecting Layer. Solar Rrl, 2017, 1, 1700139.	3.1	19
39	Lanthanide-doping enables kinetically controlled growth of deep-blue two-monolayer halide perovskite nanoplatelets. Nanoscale, 2021, 13, 11552-11560.	2.8	16
40	Organo-Metal Halide Scintillator with Weak Thermal Quenching Up to 200 Â°C. Journal of Physical Chemistry Letters, 2022, 13, 5794-5800.	2.1	16
41	Enhanced thermal stability of inverted perovskite solar cells by interface modification and additive strategy. RSC Advances, 2020, 10, 18400-18406.	1.7	15
42	Understanding of the Nearly Linear Tunable Open-Circuit Voltages in Ternary Organic Solar Cells Based on Two Non-fullerene Acceptors. Journal of Physical Chemistry Letters, 2021, 12, 151-156.	2.1	14
43	Solutionâ€Processed Perovskite/Metalâ€Oxide Hybrid Xâ€Ray Detector and Array with Decoupled Electronic and Ionic Transport Pathways. Small Methods, 2022, 6, .	4.6	11
44	Direct Observations of Surface Plasmon Polaritons in Highly Conductive Organic Thin Film. ACS Applied Materials & Interfaces, 2019, 11, 39132-39142.	4.0	10
45	Efficient MA-free Pb-Sn alloyed low-bandgap perovskite solar cells via surface passivation. Nano Energy, 2022, 101, 107596.	8.2	10
46	Influence of Isomerism on Radioluminescence of Purely Organic Phosphorescence Scintillators. Angewandte Chemie, 2021, 133, 27401-27406.	1.6	9
47	PbI₂â€“TiO₂ Bulk Heterojunctions with Long-Range Ordering for X-ray Detectors. Journal of Physical Chemistry Letters, 2021, 12, 11176-11181.	2.1	9
48	Seedâ€Assisted Growth of Methylammoniumâ€Free Perovskite for Efficient Inverted Perovskite Solar Cells. Small Methods, 2022, 6, e2200048.	4.6	9
49	Top-Emitting Microcavity Light-Emitting Diodes Based on All-Thermally Evaporated Lead-Free Copper Halide Self-Trapped-Exciton Emitters. Journal of Physical Chemistry Letters, 2022, 13, 3431-3437.	2.1	9
50	Spectral Narrowing and Enhancement of Directional Emission of Perovskite Light Emitting Diode by Microcavity. Laser and Photonics Reviews, 2022, 16, .	4.4	9
51	Direct Optical Patterning of Nanocrystal-Based Thin-Film Transistors and Light-Emitting Diodes through Native Ligand Cleavage. ACS Applied Nano Materials, 2022, 5, 8457-8466.	2.4	7
52	Characterizations and Understanding of Additives Induced Passivation Effects in Narrow-Bandgap Snâ€“Pb Alloyed Perovskite Solar Cells. Journal of Physical Chemistry C, 2021, 125, 12560-12567.	1.5	6
53	Highly Efficient and Thickness Insensitive Inverted Triple-Cation Perovskite Solar Cells Fabricated by Gas Pumping Method. Journal of Physical Chemistry Letters, 2021, 12, 5580-5586.	2.1	6
54	Efficiency breakthrough for all-perovskite tandem solar cells. Science China Chemistry, 2020, 63, 294-295.	4.2	2

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55	Perovskite Quantum Dots for Photovoltaic Applications. Springer Series in Materials Science, 2020, , 243-254.	0.4	1
56	Accurate optical optimization of light-emitting diodes with consideration of coupling between Purcell factor and transmittance coefficient. Optics Express, 2022, 30, 24544.	1.7	1