Yang Michael Yang

List of Publications by Citations

49 papers	8,243 citations	28 h-index	60 g-index
60 ext. papers	9,733 ext. citations	14.9 avg, IF	6.68 L-index

#	Paper	IF	Citations
49	Polymer solar cells. *Nature Photonics*, **2012**, 6, 153-161	33.9	3621
48	Next-generation organic photovoltaics based on non-fullerene acceptors. *Nature Photonics*, **2018**, 12, 131-142	33.9	1155
47	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. *Nature Communications*, **2017**, 8, 15640	17.4	557
46	10.2% power conversion efficiency polymer tandem solar cells consisting of two identical sub-cells. *Advanced Materials*, **2013**, 25, 3973-8	24	403
45	Enabling low voltage losses and high photocurrent in fullerene-free organic photovoltaics. *Nature Communications*, **2019**, 10, 570	17.4	260
44	High-performance perovskite/Cu(In,Ga)Se monolithic tandem solar cells. *Science*, **2018**, 361, 904-908	33.3	228
43	Make perovskite solar cells stable. *Nature*, **2017**, 544, 155-156	50.4	221
42	Highly sensitive X-ray detector made of layered perovskite-like (NH4)3Bi2I9 single crystal with anisotropic response. *Nature Photonics*, **2019**, 13, 602-608	33.9	217
41	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	16.4	162
40	Low-dose real-time X-ray imaging with nontoxic double perovskite scintillators. *Light: Science and Applications*, **2020**, 9, 112	16.7	127
39	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. *Materials Horizons*, **2015**, 2, 203-211	14.4	127
38	High-Performance Organic Bulk-Heterojunction Solar Cells Based on Multiple-Donor or Multiple-Acceptor Components. *Advanced Materials*, **2018**, 30, 1705706	24	124
37	Shining Emitter in a Stable Host: Design of Halide Perovskite Scintillators for X-ray Imaging from Commercial Concept. *ACS Nano*, **2020**, 14, 5183-5193	16.7	110
36	Colloidal Synthesis and Optical Properties of All-Inorganic Low-Dimensional Cesium Copper Halide Nanocrystals. *Angewandte Chemie - International Edition*, **2019**, 58, 16087-16091	16.4	104
35	Organic phosphors with bright triplet excitons for efficient X-ray-excited luminescence. *Nature Photonics*, **2021**, 15, 187-192	33.9	83
34	Ultrafast self-trapping of photoexcited carriers sets the upper limit on antimony trisulfide photovoltaic devices. *Nature Communications*, **2019**, 10, 4540	17.4	66
33	Efficient and Reproducible Monolithic Perovskite/Organic Tandem Solar Cells with Low-Loss Interconnecting Layers. *Joule*, **2020**, 4, 1594-1606	27.8	57

32	Highly Efficient and Tunable Emission of Lead-Free Manganese Halides toward White Light-Emitting Diode and X-Ray Scintillation Applications. *Advanced Functional Materials*, **2021**, 31, 2009973	15.6	49
31	Reproducible X-ray Imaging with a Perovskite Nanocrystal Scintillator Embedded in a Transparent Amorphous Network Structure. *Advanced Materials*, **2021**, 33, e2102529	24	47
30	High-Performance All-Polymer Solar Cells with a Pseudo-Bilayer Configuration Enabled by a Stepwise Optimization Strategy. *Advanced Functional Materials*, **2021**, 31, 2010411	15.6	46
29	Power Conversion Efficiency Enhancement of Low-Bandgap Mixed Pb–Sn Perovskite Solar Cells by Improved Interfacial Charge Transfer. *ACS Energy Letters*, **2019**, 4, 1784-1790	20.1	44
28	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	6.4	42
27	Realizing High Efficiency over 20% of Low-Bandgap Pb–Sn-Alloyed Perovskite Solar Cells by In Situ Reduction of Sn4+. *Solar Rrl*, **2020**, 4, 1900467	7.1	40
26	Highly Resolved and Robust Dynamic X-Ray Imaging Using Perovskite Glass-Ceramic Scintillator with Reduced Light Scattering. *Advanced Science*, **2021**, 8, e2003728	13.6	39
25	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. *Nature Materials*, **2021**,	27	31
24	Perovskite semiconductors for direct X-ray detection and imaging. *Journal of Semiconductors*, **2020**, 41, 051204	2.3	30
23	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. *Joule*, **2021**, 5, 1832-1844	27.8	30
22	Large-area perovskite solar cells. *Science Bulletin*, **2020**, 65, 872-875	10.6	29
21	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	7.9	25
20	All-Inorganic Perovskite Polymer□Ceramics for Flexible and Refreshable X-Ray Imaging. *Advanced Functional Materials*,2107424	15.6	18
19	Surface Reconstruction for Stable Monolithic All-Inorganic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency. *Advanced Functional Materials*,2109321	15.6	16
18	High-Efficiency Organic Tandem Solar Cells With Effective Transition Metal Chelates Interconnecting Layer. *Solar Rrl*, **2017**, 1, 1700139	7.1	15
17	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. *Energy and Environmental Science*,	35.4	13
16	In Situ Fabrication of CsCuI: Tl Nanocrystal Films for High-Resolution and Ultrastable X-ray Imaging.. *Journal of Physical Chemistry Letters*, **2022**, 2862-2870	6.4	10
15	Highly Emissive and Stable Five-Coordinated Manganese(II) Complex for X-Ray Imaging. *Laser and Photonics Reviews*, **2021**, 15, 2100309	8.3	9

14	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	6.4	9
13	Highly Efficient NaGdF:Ce/Tb Nanoscintillator with Reduced Afterglow and Light Scattering for High-Resolution X-ray Imaging. *ACS Applied Materials & Interfaces*, **2021**, 13, 44596-44603	9.5	8
12	1934 cm2 large-area quaternary organic photovoltaic module with 1236% certified efficiency. *Photonics Research*, **2021**, 9, 324	6	7
11	Enhanced thermal stability of inverted perovskite solar cells by interface modification and additive strategy.. *RSC Advances*, **2020**, 10, 18400-18406	3.7	6
10	Influence of Isomerism on Radioluminescence of Purely Organic Phosphorescence Scintillators. *Angewandte Chemie - International Edition*, **2021**,	16.4	6
9	Direct Observations of Surface Plasmon Polaritons in Highly Conductive Organic Thin Film. *ACS Applied Materials & Interfaces*, **2019**, 11, 39132-39142	9.5	5
8	Characterizations and Understanding of Additives Induced Passivation Effects in Narrow-Bandgap SnPb Alloyed Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2021**, 125, 12560-12567	3.8	5
7	Lanthanide-doping enables kinetically controlled growth of deep-blue two-monolayer halide perovskite nanoplatelets. *Nanoscale*, **2021**, 13, 11552-11560	7.7	5
6	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	6.4	3
5	PbI-TiO Bulk Heterojunctions with Long-Range Ordering for X-ray Detectors. *Journal of Physical Chemistry Letters*, **2021**, 12, 11176-11181	6.4	2
4	Efficiency breakthrough for all-perovskite tandem solar cells. *Science China Chemistry*, **2020**, 63, 294-295	7.9	2
3	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**, 3431-3437	6.4	2
2	Seed-Assisted Growth of Methylammonium-Free Perovskite for Efficient Inverted Perovskite Solar Cells.. *Small Methods*, **2022**, e2200048	12.8	1
1	Perovskite Quantum Dots for Photovoltaic Applications. *Springer Series in Materials Science*, **2020**, 243-254	5.9	0