

# Weijun Ke

## List of Publications by Year in descending order

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64  
papers

10,846  
citations

41344

49  
h-index

114465

63  
g-index

65  
all docs

65  
docs citations

65  
times ranked

9625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Temperature Solution-Processed Tin Oxide as an Alternative Electron Transporting Layer for Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 6730-6733.	13.7	1,045
2	Prospects for low-toxicity lead-free perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 965.	12.8	695
3	Hybrid Dionâ€“Jacobson 2D Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2018, 140, 3775-3783.	13.7	686
4	Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5214-5221.	21.0	487
5	Recent progress in electron transport layers for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3970-3990.	10.3	472
6	Efficient hole-blocking layer-free planar halide perovskite thin-film solar cells. <i>Nature Communications</i> , 2015, 6, 6700.	12.8	358
7	â€œUnleadedâ€•Perovskites: Status Quo and Future Prospects of Tinâ€•Based Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1803230.	21.0	345
8	Effective Carrierâ€•Concentration Tuning of SnO <sub>2</sub> Quantum Dot Electronâ€•Selective Layers for Highâ€•Performance Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1706023.	21.0	333
9	Enhanced photovoltaic performance and stability with a new type of hollow 3D perovskite {en}FASnI <sub>3</sub> . <i>Science Advances</i> , 2017, 3, e1701293.	10.3	325
10	Perovskite Solar Cell with an Efficient TiO <sub>2</sub> Compact Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15959-15965.	8.0	300
11	Two-Dimensional Dionâ€“Jacobson Hybrid Lead Iodide Perovskites with Aromatic Diammonium Cations. <i>Journal of the American Chemical Society</i> , 2019, 141, 12880-12890.	13.7	241
12	Myths and reality of HPbI <sub>3</sub> in halide perovskite solar cells. <i>Nature Communications</i> , 2018, 9, 4785.	12.8	238
13	Efficient Lead-Free Solar Cells Based on Hollow {en}MASnI <sub>3</sub> Perovskites. <i>Journal of the American Chemical Society</i> , 2017, 139, 14800-14806.	13.7	230
14	TiO <sub>2</sub> â€“ZnS Cascade Electron Transport Layer for Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 14998-15003.	13.7	220
15	Compositional and Solvent Engineering in Dionâ€“Jacobson 2D Perovskites Boosts Solar Cell Efficiency and Stability. <i>Advanced Energy Materials</i> , 2019, 9, 1803384.	19.5	219
16	CsPbBr <sub>3</sub> perovskite detectors with 1.4% energy resolution for high-energy Î³-rays. <i>Nature Photonics</i> , 2021, 15, 36-42.	31.4	210
17	Cooperative tin oxide fullerene electron selective layers for high-performance planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14276-14283.	10.3	204
18	Uniaxial Expansion of the 2D Ruddlesdenâ€“Popper Perovskite Family for Improved Environmental Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 5518-5534.	13.7	193



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37	Efficient planar perovskite solar cells using room-temperature vacuum-processed $C_{60}$ electron selective layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17971-17976.	10.3	100
38	Resolving the Energy of $\text{I}^{3-}$ -Ray Photons with $\text{MAPbI}_3$ Single Crystals. <i>ACS Photonics</i> , 2018, 5, 4132-4138.	6.6	100
39	In Situ Synthesis of $\text{NiS}$ Nanowall Networks on Ni Foam as a TCO-Free Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5525-5530.	8.0	96
40	Ethylendiammonium-Based "Hollow" $\text{Pb/Sn}$ Perovskites with Ideal Band Gap Yield Solar Cells with High Efficiency and Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 8627-8637.	13.7	93
41	Three-Dimensional Lead Iodide Perovskitoid Hybrids with High X-ray Photoresponse. <i>Journal of the American Chemical Society</i> , 2020, 142, 6625-6637.	13.7	82
42	Inch-sized high-quality perovskite single crystals by suppressing phase segregation for light-powered integrated circuits. <i>Science Advances</i> , 2021, 7, .	10.3	81
43	Seven-Layered 2D Hybrid Lead Iodide Perovskites. <i>CheM</i> , 2019, 5, 2593-2604.	11.7	79
44	Highly Efficient and Stable Planar Perovskite Solar Cells With Large-Scale Manufacture of Beam Evaporated $\text{SnO}_2$ Toward Commercialization. <i>Solar Rrl</i> , 2017, 1, 1700118.	5.8	75
45	Interfacial engineering of a thiophene-based 2D/3D perovskite heterojunction for efficient and stable inverted wide-bandgap perovskite solar cells. <i>Nano Energy</i> , 2021, 90, 106608.	16.0	71
46	Graphene-Modified Tin Dioxide for Efficient Planar Perovskite Solar Cells with Enhanced Electron Extraction and Reduced Hysteresis. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 666-673.	8.0	66
47	Internal Encapsulation for Lead Halide Perovskite Films for Efficient and Very Stable Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	59
48	Water-Stable 1D Hybrid Tin(II) Iodide Emits Broad Light with 36% Photoluminescence Quantum Efficiency. <i>Journal of the American Chemical Society</i> , 2020, 142, 9028-9038.	13.7	57
49	Junction Quality of $\text{SnO}_2$ -Based Perovskite Solar Cells Investigated by Nanometer-Scale Electrical Potential Profiling. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38373-38380.	8.0	56
50	Modern Processing and Insights on Selenium Solar Cells: The World's First Photovoltaic Device. <i>Advanced Energy Materials</i> , 2019, 9, 1802766.	19.5	53
51	Benzodithiophene Hole-Transporting Materials for Efficient Tin-Based Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1905393.	14.9	49
52	Millisecond-pulsed photonic-annealed tin oxide electron transport layers for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24110-24115.	10.3	41
53	Improved Performance of Electroplated CZTS Thin-Film Solar Cells with Bifacial Configuration. <i>ChemSusChem</i> , 2016, 9, 2149-2158.	6.8	40
54	Tunable Broad Light Emission from 3D "Hollow" Bromide Perovskites through Defect Engineering. <i>Journal of the American Chemical Society</i> , 2021, 143, 7069-7080.	13.7	37

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55	2,3-Diphenylthieno[3,4- <i>b</i> ]pyrazines as Hole-Transporting Materials for Stable, High-Performance Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 2118-2127.	17.4	27
56	Revealing key factors of efficient narrow-bandgap mixed lead-tin perovskite solar cells via numerical simulations and experiments. <i>Nano Energy</i> , 2022, 96, 107078.	16.0	21
57	Film formation mechanisms in mixed-dimensional 2D/3D halide perovskite films revealed by in situ grazing-incidence wide-angle X-ray scattering. <i>CheM</i> , 2022, 8, 1067-1082.	11.7	16
58	In Quest of Environmentally Stable Perovskite Solar Cells: A Perspective. <i>Helvetica Chimica Acta</i> , 2021, 104, .	1.6	15
59	Low-temperature synthesis of size-controllable anatase TiO <sub>2</sub> microspheres and interface optimization of bi-layer anodes for high efficiency dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 17-25.	5.2	14
60	Highly Efficient Quasi-2D Green Perovskite Light-Emitting Diodes with Bifunctional Amino Acid. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	14
61	Selective Capture Mechanism of Radioactive Thorium from Highly Acidic Solution by a Layered Metal Sulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37308-37315.	8.0	11
62	Revealing the Mechanism of $\pi$ -Aromatic Molecule as an Effective Passivator and Stabilizer in Highly Efficient Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100249.	5.8	11
63	Organic-inorganic hybrid hole transport layers with SnS doping boost the performance of perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022, 68, 637-645.	12.9	9
64	Optical properties and degradation monitoring of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . , 2016, , .		0