

# Chen Kai

## List of Publications by Year in descending order

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47  
papers

3,358  
citations

236925

25  
h-index

276875

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

4166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping Polymer Donors toward High-Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604155.	21.0	360
2	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020, 4, 1236-1247.	24.0	344
3	Optimized Fibril Network Morphology by Precise Side-Chain Engineering to Achieve High-Performance Bulk-Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1707353.	21.0	271
4	The Evolution of Quantum Confinement in CsPbBr <sub>3</sub> Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 3644-3652.	6.7	258
5	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2711-2720.	17.4	188
6	Tuneable Singlet Exciton Fission and Triplet-Triplet Annihilation in an Orthogonal Pentacene Dimer. <i>Advanced Functional Materials</i> , 2015, 25, 5452-5461.	14.9	184
7	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , 2018, 30, e1706363.	21.0	172
8	Preparation and investigation of novel gastro-floating tablets with 3D extrusion-based printing. <i>International Journal of Pharmaceutics</i> , 2018, 535, 325-332.	5.2	160
9	Tuning the role of charge-transfer states in intramolecular singlet exciton fission through side-group engineering. <i>Nature Communications</i> , 2016, 7, 13622.	12.8	157
10	High-Performance Fluorinated Fused-Ring Electron Acceptor with 3D Stacking and Exciton/Charge Transport. <i>Advanced Materials</i> , 2020, 32, e2000645.	21.0	122
11	Unraveling the influence of non-fullerene acceptor molecular packing on photovoltaic performance of organic solar cells. <i>Nature Communications</i> , 2020, 11, 6005.	12.8	112
12	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables High-Performance Acceptor and Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002649.	19.5	103
13	Effect of Carrier Thermalization Dynamics on Light Emission and Amplification in Organometal Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 153-158.	4.6	101
14	Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3415-3425.	17.4	73
15	High-Performance Fused Ring Electron Acceptor-Perovskite Hybrid. <i>Journal of the American Chemical Society</i> , 2018, 140, 14938-14944.	13.7	71
16	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. <i>Energy and Environmental Science</i> , 2020, 13, 2467-2479.	30.8	69
17	Efficient energy transport in an organic semiconductor mediated by transient exciton delocalization. <i>Science Advances</i> , 2021, 7, .	10.3	68
18	Free charge photogeneration in a single component high photovoltaic efficiency organic semiconductor. <i>Nature Communications</i> , 2022, 13, .	12.8	66

#	ARTICLE	IF	CITATIONS
19	Modulating Energy Level on an A <sup>+</sup> A <sup>2+</sup> A <sup>+</sup> Type Unfused Acceptor by a Benzothiadiazole Core Enables Organic Solar Cells with Simple Procedure and High Performance. <i>Solar Rrl</i> , 2020, 4, 2000421.	5.8	48
20	Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 909-915.	5.5	47
21	High-performance organic solar cells based on polymer donor/small molecule donor/nonfullerene acceptor ternary blends. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2268-2274.	10.3	42
22	Phonon-Mediated and Weakly Size-Dependent Electron and Hole Cooling in CsPbBr <sub>3</sub> Nanocrystals Revealed by Atomistic Simulations and Ultrafast Spectroscopy. <i>Nano Letters</i> , 2020, 20, 1819-1829.	9.1	41
23	&lt;p&gt;Dual Receptor-Targeted and Redox-Sensitive Polymeric Micelles Self-Assembled from a Folic Acid-Hyaluronic Acid-SS-Vitamin E Succinate Polymer for Precise Cancer Therapy&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2885-2902.	6.7	32
24	Shape-, Size-, and Composition-Controlled Thallium Lead Halide Perovskite Nanowires and Nanocrystals with Tunable Band Gaps. <i>Chemistry of Materials</i> , 2018, 30, 2973-2982.	6.7	28
25	Ultrafast Spectrally Resolved Photoinduced Complex Refractive Index Changes in CsPbBr <sub>3</sub> Perovskites. <i>ACS Photonics</i> , 2019, 6, 345-350.	6.6	27
26	Evolution of Nonmirror Image Fluorescence Spectra in Conjugated Polymers and Oligomers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3307-3312.	4.6	25
27	A Novel Carbon Dots/Thermo-Sensitive In Situ Gel for a Composite Ocular Drug Delivery System: Characterization, Ex-Vivo Imaging, and In Vivo Evaluation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9934.	4.1	23
28	Design and Evaluation of Hydrophilic Matrix System Containing Polyethylene Oxides for the Zero-Order Controlled Delivery of Water-Insoluble Drugs. <i>AAPS PharmSciTech</i> , 2017, 18, 82-92.	3.3	22
29	Chalcogenâ€Fused Perylene Diimidesâ€Based Nonfullerene Acceptors for Highâ€Performance Organic Solar Cells: Insight into the Effect of O, S, and Se. <i>Solar Rrl</i> , 2020, 4, 1900453.	5.8	21
30	Recent Advances in Transition-Metal-Free Aryl Câ€B Bond Formation. <i>Synthesis</i> , 2017, 49, 4719-4730.	2.3	19
31	A Hybrid Perovskite Solar Cell Modified With Copper Indium Sulfide Nanocrystals to Enhance Hole Transport and Moisture Stability. <i>Solar Rrl</i> , 2017, 1, 1700078.	5.8	19
32	Controlled Growth of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Using a Dynamically Dispensed Spinâ€Coating Method: Improving Efficiency with a Reproducible Pbl <sub>2</sub> Blocking Layer. <i>ChemSusChem</i> , 2017, 10, 2677-2684.	6.8	17
33	Fluorinated pyrazine-based Dâ€A conjugated polymers for efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7083-7089.	10.3	17
34	Balancing skeleton and functional groups in total syntheses of complex natural products: a case study of tigliane, daphnane and ingenane diterpenoids. <i>Natural Product Reports</i> , 2021, 38, 1589-1617.	10.3	17
35	Whispering-Gallery Mode Lasing in Perovskite Nanocrystals Chemically Bound to Silicon Dioxide Microspheres. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7009-7014.	4.6	16
36	Drug Delivery: Biocompatible Reactive Oxygen Species (ROS)â€Responsive Nanoparticles as Superior Drug Delivery Vehicles ( <i>Adv. Healthcare Mater.</i> 1/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 168-168.	7.6	5

#	ARTICLE	IF	CITATIONS
37	Molecular dynamics simulation of interfaces and microstructure evolution during high-speed sliding. Numerical Heat Transfer; Part A: Applications, 2017, 72, 519-535.	2.1	4
38	Interfacial energetic disorder induced by the molecular packing structure at conjugated polymer-based donor/acceptor heterojunctions. Journal of Materials Chemistry C, 2021, 9, 13761-13769.	5.5	4
39	Dâ€A type (dfppy) 2 Ir(picâ€TPA) complex containing fluorinated pyridineâ€2â€carboxylate ligand and triphenylamine: synthesis, photophysics and bioactivity. Applied Organometallic Chemistry, 2020, 34, e5320.	3.5	2
40	A Novel Fluoro-Pyrazine-Bridged Donor-Acceptor-Donor Fluorescent Probe for Lipid Droplet-Specific Imaging in Diverse Cells and Superoxide Anion Generation. Pharmaceutical Research, 2022, 39, 1205-1214.	3.5	2
41	A concise synthesis of Fingolimod: an orally available drug for treating multiple sclerosis. Chemistry Central Journal, 2015, 9, 5.	2.6	1
42	HIGH-SENSITIVITY ULTRAFAST TRANSIENT ABSORPTION SPECTROSCOPY OF ORGANIC PHOTOVOLTAIC DEVICES. , 2014, , .		0
43	3-Ethyl-2-(ethylimino)-4-methyl-2,3-dihydro-1,3-thiazole-5-carboxylate Ethyl Ester. MolBank, 2016, 2016, M919.	0.5	0
44	A Hybrid Perovskite Solar Cell Modified With Copper Indium Sulfide Nanocrystals to Enhance Hole Transport and Moisture Stability (Solar RRL 8â€2017). Solar Rrl, 2017, 1, 1770130.	5.8	0
45	A Quantitative Study of Optical Gain Mechanisms in Quasi-2D Solution Processable Materials. , 0, , .		0
46	Phonon-Mediated and Weakly Size-Dependent Electron and Hole Cooling in CsPbBr3 Nanocrystals Revealed by Atomistic Simulations and Ultrafast Spectroscopy. , 0, , .		0
47	A Quantitative Study of Optical Gain Mechanisms in Quasi-2D Solution Processable Materials. , 0, , .		0