Haoyuan Li

List of Publications by Year
in descending order

39 papers	1,679 citations	361413 20 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	2163 citing authors

#	Article	IF	Citations
1	Highâ€Efficiency Fluorescent Organic Lightâ€Emitting Devices Using Sensitizing Hosts with a Small Singletâ€"Triplet Exchange Energy. Advanced Materials, 2014, 26, 5050-5055.	21.0	496
2	Nucleation and Growth of Covalent Organic Frameworks from Solution: The Example of COF-5. Journal of the American Chemical Society, 2017, 139, 16310-16318.	13.7	121
3	Towards High Efficiency and Low Rollâ€Off Orange Electrophosphorescent Devices by Fine Tuning Singlet and Triplet Energies of Bipolar Hosts Based on Indolocarbazole/1, 3, 5â€Triazine Hybrids. Advanced Functional Materials, 2014, 24, 3551-3561.	14.9	117
4	Universal Trap Effect in Carrier Transport of Disordered Organic Semiconductors: Transition from Shallow Trapping to Deep Trapping. Journal of Physical Chemistry C, 2014, 118, 10651-10660.	3.1	74
5	Highâ€Performance Fluorescent Organic Lightâ€Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electronâ€Transporting Material. Advanced Materials, 2018, 30, e1707590.	21.0	68
6	Molecular Understanding of Fullerene â€" Electron Donor Interactions in Organic Solar Cells. Advanced Energy Materials, 2017, 7, 1601370.	19.5	66
7	Nucleationâ€"Elongation Dynamics of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 1367-1374.	13.7	58
8	Hydrolytic Stability of Boronate Esterâ€Linked Covalent Organic Frameworks. Advanced Theory and Simulations, 2018, 1, 1700015.	2.8	57
9	Characterization of intrinsic hole transport in single-crystal spiro-OMeTAD. Npj Flexible Electronics, 2017, 1, .	10.7	49
10	Charge Transport in Mixed Organic Disorder Semiconductors: Trapping, Scattering, and Effective Energetic Disorder. Journal of Physical Chemistry C, 2012, 116, 19748-19754.	3.1	44
11	Chemical Control over Nucleation and Anisotropic Growth of Two-Dimensional Covalent Organic Frameworks. ACS Central Science, 2019, 5, 1892-1899.	11.3	44
12	Exciplex System with Increased Donorâ€"Acceptor Distance as the Sensitizing Host for Conventional Fluorescent OLEDs with High Efficiency and Extremely Low Roll-Off. ACS Applied Materials & Interfaces, 2019, 11, 22595-22602.	8.0	40
13	Efficient Organic Light-Emitting Transistors Based on High-Quality Ambipolar Single Crystals. ACS Applied Materials & Interfaces, 2020, 12, 43976-43983.	8.0	36
14	Charge Transport in Amorphous Organic Semiconductors: Effects of Disorder, Carrier Density, Traps, and Scatters. Israel Journal of Chemistry, 2014, 54, 918-926.	2.3	33
15	Influence of Molecular Packing on Intramolecular Reorganization Energy: A Case Study of Small Molecules. Journal of Physical Chemistry C, 2014, 118, 14848-14852.	3.1	31
16	Impact of Structural Defects on the Elastic Properties of Two-Dimensional Covalent Organic Frameworks (2D COFs) under Tensile Stress. Chemistry of Materials, 2021, 33, 4529-4540.	6.7	30
17	Relationship between Mobilities from Time-of-Flight and Dark-Injection Space-Charge-Limited Current Measurements for Organic Semiconductors: A Monte Carlo Study. Journal of Physical Chemistry C, 2014, 118, 6052-6058.	3.1	26
18	Assessment of the Factors Influencing Chargeâ€Carrier Mobility Measurements in Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2018, 28, 1803096.	14.9	26

#	Article	IF	Citations
19	Electric Field inside a Hole-Only Device and Insights into Space-Charge-Limited Current Measurement for Organic Semiconductors. Journal of Physical Chemistry C, 2014, 118, 9990-9995.	3.1	25
20	Organic Fieldâ€Effect Transistors: A 3D Kinetic Monte Carlo Simulation of the Current Characteristics in Micrometerâ€Sized Devices. Advanced Functional Materials, 2017, 27, 1605715.	14.9	24
21	Kinetic Monte Carlo Modeling of Charge Carriers in Organic Electronic Devices: Suppression of the Self-Interaction Error. Journal of Physical Chemistry Letters, 2017, 8, 2507-2512.	4.6	17
22	Developing molecular-level models for organic field-effect transistors. National Science Review, 2021, 8, nwaa167.	9.5	17
23	Study of the Hole and Electron Transport in Amorphous 9,10-Di-(2â€²-naphthyl)anthracene: The First-Principles Approach. Journal of Physical Chemistry C, 2013, 117, 16336-16342.	3.1	15
24	Quasi-One-Dimensional Charge Transport Can Lead to Nonlinear Current Characteristics in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2018, 9, 6550-6555.	4.6	15
25	Large Out-of-Plane Deformations of Two-Dimensional Covalent Organic Framework (COF) Sheets. Journal of Physical Chemistry Letters, 2018, 9, 4215-4220.	4.6	15
26	Transient space-charge-perturbed currents in organic materials: A Monte Carlo study. Organic Electronics, 2014, 15, 524-530.	2.6	14
27	Improved charge transport and injection in a meso-superstructured solar cell by a tractable pre-spin-coating process. Physical Chemistry Chemical Physics, 2015, 17, 24092-24097.	2.8	14
28	Understanding charge transport in donor/acceptor blends from large-scale device simulations based on experimental film morphologies. Energy and Environmental Science, 2020, 13, 601-615.	30.8	14
29	Mobility increase in poly [2-methoxy-5-(2â€²-ethylhexyloxy)-1, 4-phenylenevinylene] blended with graphene. Applied Physics Letters, 2011, 98, 223302.	3.3	12
30	Experimental and theoretical study of the charge transport property of 4,4â€²-N,Nâ€²-dicarbazole-biphenyl. Science China Chemistry, 2012, 55, 2428-2432.	8.2	12
31	Nanoscrolls Formed from Two-Dimensional Covalent Organic Frameworks. Chemistry of Materials, 2019, 31, 3265-3273.	6.7	12
32	Multi-scale calculation of the electric properties of organic-based devices from the molecular structure. Organic Electronics, 2016, 33, 164-171.	2.6	11
33	Percolative charge transport in a co-evaporated organic molecular mixture. Organic Electronics, 2013, 14, 3312-3317.	2.6	8
34	Mechanisms of Charge Transport in Transition Metal Oxide Doped Organic Semiconductors. Journal of Physical Chemistry C, 2014, 118, 29636-29642.	3.1	8
35	Modeling of Actualâ€Size Organic Electronic Devices from Efficient Molecularâ€Scale Simulations. Advanced Functional Materials, 2018, 28, 1801460.	14.9	8
36	Lithium-ion distribution and motion in two-dimensional covalent organic frameworks: the example of TAPB-PDA COF. Journal of Materials Chemistry C, 2022, 10, 13834-13843.	5.5	8

#	Article	IF	Citations
37	Quantitative Description of the Lateral Growth of Two-Dimensional Covalent Organic Frameworks Reveals Self-Template Effects. , 2021, 3, 398-405.		6
38	Transient space-charge-perturbed currents of N,Nâ€²-diphenyl-N,Nâ€²-bis(1-naphthyl)-1,1â€²-biphenyl-4,4â€²-diamine and N,Nâ€²-diphenyl-N,Nâ€²-bis(3-methylphenyl)-1,1â€²-biphenyl-4,4â€²-diamine in diode structures. Applied Physics Letters, 2014, 104, .	3.3	4
39	Bipolar charge transport property of N,Nâ€²-dicarbazolyl-1,4-dimethene-benzene: A study of the short range order model. Science Bulletin, 2013, 58, 79-83.	1.7	3