

Lei Cai

List of Publications by Year in descending order

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18
papers

336
citations

840776

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888059

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18
times ranked

415
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress on Patterning Strategies for Perovskite Light-Emitting Diodes toward a Full-Color Display Prototype. <i>Small Science</i> , 2021, 1, 2000050.	9.9	39
2	Coffee-Stain-Free Perovskite Film for Efficient Printed Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2021, 9, 2100553.	7.3	36
3	Excited state dynamics of new-type thermally activated delayed fluorescence emitters: theoretical view of light-emitting mechanism. <i>Molecular Physics</i> , 2018, 116, 19-28.	1.7	34
4	Dynamics of Excited States for Fluorescent Emitters with Hybridized Local and Charge-Transfer Excited State in Solid Phase: A QM/MM Study. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9422-9430.	2.5	30
5	Thermal-induced interface degradation in perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15079-15085.	5.5	30
6	Strontium Ion Site Substitution for Spectrally Stable Blue Emitting Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 2001073.	7.3	28
7	In-situ passivation perovskite targeting efficient light-emitting diodes via spontaneously formed silica network. <i>Nano Energy</i> , 2020, 78, 105134.	16.0	28
8	Electroluminescent Mechanism of Thermally Activated Delayed Fluorescence Emitters: Conformational Effect. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19953-19961.	3.1	22
9	Theoretical perspective of the excited state intramolecular proton transfer for a compound with aggregation induced emission in the solid phase. <i>RSC Advances</i> , 2017, 7, 44089-44096.	3.6	18
10	Dual Functionalization of Electron Transport Layer via Tailoring Molecular Structure for High-Performance Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37346-37353.	8.0	17
11	Effect of intermolecular interaction on excited-state properties of thermally activated delayed fluorescence molecules in solid phase: A QM/MM study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 209, 248-255.	3.9	12
12	Influence of donor and acceptor groups on the S-T energy gap for thermally activated delayed fluorescence emitters. <i>Molecular Physics</i> , 2017, 115, 809-814.	1.7	8
13	High-Efficiency Top-Emitting Green Perovskite Light Emitting Diode with Quasi Lambertian Emission. <i>Advanced Optical Materials</i> , 2022, 10, 2101137.	7.3	8
14	Solvent effect on the photophysical properties of thermally activated delayed fluorescence molecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117473.	3.9	7
15	Unveiling the critical role of ammonium bromide in blue emissive perovskite films. <i>Nanoscale</i> , 2021, 13, 13497-13505.	5.6	7
16	Revealing a Zinc Oxide/Perovskite Luminescence Quenching Mechanism Targeting Low-Roll-off Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3121-3129.	4.6	7
17	Self-Healing Perovskite Films Enabled by Fluorinated Cross-Linked Network Targeting Flexible Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	5
18	First-principles study on the singlet-triplet energy gap of thermally activated delayed fluorescence molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 690, 84-94.	0.9	0