Zheng Hong Lu

List of Publications by Year
in descending order

201 papers	19,967 citations	17405 63 h-index	11030 137 g-index
208 all docs	208 docs citations	208 times ranked	19984 citing authors

#	Article	IF	Citations
1	Measuring Energy Gaps of Organic Semiconductors by Electron Energy Loss Spectroscopies. Physica Status Solidi (B): Basic Research, 2022, 259, 2100459.	0.7	8
2	Formation of MoO₃/Organic Interfaces. Advanced Materials Interfaces, 2022, 9, 2101423.	1.9	5
3	Improving bias-stress stability of p-type organic field-effect transistors by suppressing electron injection. Journal of Materials Science: Materials in Electronics, 2022, 33, 3726-3737.	1.1	3
4	Ytterbium oxide electron injection interface in organic light-emitting diode. Applied Physics Letters, 2022, 120, .	1.5	3
5	Hydrothermally carbonized xylem sap for use in chemosensors, on and off switches, and memory devices. Energy Reports, 2022, 8, 3213-3220.	2.5	1
6	Manipulating Electronic Processes at Organic Heterojunctions for Ultralow-Voltage OLEDs. , 2022, , 255-275.		0
7	Tracking the evolution of materials and interfaces in perovskite solar cells under an electric field. Communications Materials, 2022, 3, .	2.9	15
8	Molecular orientation and thermal stability of thin-film organic semiconductors. Organic Electronics, 2021, 88, 106014.	1.4	8
9	An Electroactive Pure Organic Roomâ€Temperature Phosphorescence Polymer Based on a Donorâ€Oxygenâ€Acceptor Geometry. Angewandte Chemie - International Edition, 2021, 60, 2455-2463.	7.2	60
10	Interface Engineering in Organic Electronics: Energyâ€Level Alignment and Charge Transport. Small Science, 2021, 1, 2000015.	5.8	51
11	An Electroactive Pure Organic Roomâ€Temperature Phosphorescence Polymer Based on a Donorâ€Oxygenâ€Acceptor Geometry. Angewandte Chemie, 2021, 133, 2485-2493.	1.6	9
12	Review and perspective of materials for flexible solar cells. Materials Reports Energy, 2021, 1, 100001.	1.7	54
13	Enhanced CO₂ Photocatalysis by Indium Oxide Hydroxide Supported on TiN@TiO₂ Nanotubes. Nano Letters, 2021, 21, 1311-1319.	4.5	35
14	Molecular engineering of Î± and Î² peripherally tri-halogenated substituted boron subphthalocyanines as mixed alloys to control physical and electrochemical properties for organic photovoltaic applications. Molecular Systems Design and Engineering, 2021, 6, 308-326.	1.7	3
15	Thermally Stable Charge Transport Materials for Vaporâ€Phase Fabrication of Perovskite Devices. Advanced Photonics Research, 2021, 2, 2000140.	1.7	3
16	Allâ€Inorganic Quantumâ€Dot LEDs Based on a Phaseâ€Stabilized Î±â€CsPbI 3 Perovskite. Angewandte Chemie, 2021, 133, 16300-16306.	1.6	1
17	Allâ€Inorganic Quantumâ€Dot LEDs Based on a Phaseâ€Stabilized Î±â€CsPbI₃ Perovskite. Angewandte Chemie - International Edition, 2021, 60, 16164-16170.	7.2	210
18	Recent Progress on Perovskite Surfaces and Interfaces in Optoelectronic Devices. Advanced Materials, 2021, 33, e2006004.	11.1	86

#	Article	IF	Citations
19	Damageâ€Free Depth Profiling of Electronic Structures in Multilayered Organic Semiconductors by Photoelectron Spectroscopy and Cluster Ion Beam. Physica Status Solidi (B): Basic Research, 2021, 258, 2100130.	0.7	7
20	Strain analysis and engineering in halide perovskite photovoltaics. Nature Materials, 2021, 20, 1337-1346.	13.3	220
21	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. Journal of the American Chemical Society, 2021, 143, 15606-15615.	6.6	94
22	Control Over Ligand Exchange Reactivity in Hole Transport Layer Enables High-Efficiency Colloidal Quantum Dot Solar Cells. ACS Energy Letters, 2021, 6, 468-476.	8.8	32
23	Impact of Dopants on Charge Transport across Organicâ€"Organic Semiconductor Junctions. Journal of Physical Chemistry C, 2021, 125, 23457-23462.	1.5	0
24	Distribution control enables efficient reduced-dimensional perovskite LEDs. Nature, 2021, 599, 594-598.	13.7	358
25	Highly Conductive and Wettable PEDOT:PSS for Simple and Efficient Organic/câ€Si Planar Heterojunction Solar Cells. Solar Rrl, 2020, 4, 1900513.	3.1	22
26	Determination of emitting dipole orientation in organic light emitting diodes. Organic Electronics, 2020, 78, 105611.	1.4	5
27	Edge stabilization in reduced-dimensional perovskites. Nature Communications, 2020, 11, 170.	5.8	147
28	Bright high-colour-purity deep-blue carbon dot light-emitting diodes via efficient edge amination. Nature Photonics, 2020, 14, 171-176.	15.6	303
29	Color-pure red light-emitting diodes based on two-dimensional lead-free perovskites. Science Advances, 2020, 6, .	4.7	135
30	Chelating-agent-assisted control of CsPbBr3 quantum well growth enables stable blue perovskite emitters. Nature Communications, 2020, 11, 3674.	5.8	112
31	Energy Levels of Molecular Dopants in Organic Semiconductors. Advanced Materials Interfaces, 2020, 7, 2000720.	1.9	2
32	Plasmonic Titanium Nitride Facilitates Indium Oxide CO₂ Photocatalysis. Small, 2020, 16, e2005754.	5.2	32
33	Colloidal Quantum Dot Solar Cell Band Alignment using Two-Step Ionic Doping. , 2020, 2, 1583-1589.		15
34	Improving Bias-Stress Stability of p-Type Organic Field-Effect Transistors by Constructing an Electron Injection Barrier at the Drain Electrode/Semiconductor Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 41886-41895.	4.0	16
35	Deep-blue organic light-emitting diodes based on a doublet dâ€"f transition cerium(III) complex with 100% exciton utilization efficiency. Light: Science and Applications, 2020, 9, 157.	7.7	43
36	Extraordinary Mass Transport and Selfâ€Assembly: A Pathway to Fabricate Luminescent CsPbBr₃ and Lightâ€Emitting Diodes by Vaporâ€Phase Deposition. Advanced Materials Interfaces, 2020, 7, 2000506.	1.9	15

#	Article	IF	Citations
37	Multiple Self-Trapped Emissions in the Lead-Free Halide Cs₃Cu₂I₅. Journal of Physical Chemistry Letters, 2020, 11, 4326-4330.	2.1	79
38	Effect of Ag cathode deposition rate on the performance of organic light-emitting diodes. Materials Science in Semiconductor Processing, 2020, 117, 105170.	1.9	2
39	Stable, Bromine-Free, Tetragonal Perovskites with 1.7 eV Bandgaps via A-Site Cation Substitution. , 2020, 2, 869-872.		18
40	Colloidal Quantum Dot Bulk Heterojunction Solids with Nearâ€Unity Charge Extraction Efficiency. Advanced Science, 2020, 7, 2000894.	5.6	22
41	A Chemically Orthogonal Hole Transport Layer for Efficient Colloidal Quantum Dot Solar Cells. Advanced Materials, 2020, 32, e1906199.	11.1	59
42	Chloride Insertionâ€“Immobilization Enables Bright, Narrowband, and Stable Blue-Emitting Perovskite Diodes. Journal of the American Chemical Society, 2020, 142, 5126-5134.	6.6	116
43	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. Nature Nanotechnology, 2020, 15, 668-674.	15.6	541
44	High Color Purity Leadâ€Free Perovskite Lightâ€Emitting Diodes via Sn Stabilization. Advanced Science, 2020, 7, 1903213.	5.6	146
45	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	8.8	208
46	Chargeâ€Transport Processes in Hostâ€“Dopant Organic Semiconductors. Advanced Electronic Materials, 2020, 6, 1901147.	2.6	5
47	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	19.8	894
48	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. Nature Photonics, 2020, 14, 227-233.	15.6	136
49	Low-Temperature Aging Provides 22% Efficient Bromine-Free and Passivation Layer-Free Planar Perovskite Solar Cells. Nano-Micro Letters, 2020, 12, 84.	14.4	33
50	Ligand-Assisted Reconstruction of Colloidal Quantum Dots Decreases Trap State Density. Nano Letters, 2020, 20, 3694-3702.	4.5	46
51	Lowâ€Dimensional Contact Layers for Enhanced Perovskite Photodiodes. Advanced Functional Materials, 2020, 30, 2001692.	7.8	30
52	Optical design of connecting electrodes for tandem organic light-emitting diodes. Optics Letters, 2020, 45, 3561.	1.7	6
53	Multifunctional Thermally Activated Delayed Fluorescence Emitters and Insight into Multicolorâ€Mechanochromism Promoted by Weak Intraâ€•and Intermolecular Interactions. Advanced Optical Materials, 2019, 7, 1900727.	3.6	58
54	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	6.0	444

#	ARTICLE	IF	CITATIONS
55	Accelerated solution-phase exchanges minimize defects in colloidal quantum dot solids. Nano Energy, 2019, 63, 103876.	8.2	12
56	Spectrally Tunable and Stable Electroluminescence Enabled by Rubidium Doping of CsPbBr₃ Nanocrystals. Advanced Optical Materials, 2019, 7, 1901440.	3.6	51
57	Reaction and Energy Levels at Oxideâ€"Oxide Heterojunction Interfaces. Advanced Materials Interfaces, 2019, 6, 1901456.	1.9	4
58	Zwitterions for Organic/Perovskite Solar Cells, Lightâ€Emitting Devices, and Lithium Ion Batteries: Recent Progress and Perspectives. Advanced Energy Materials, 2019, 9, 1803354.	10.2	68
59	Outdoor Stability of Chloroâ€"(Chloro)_{<i>n</i>}â€"Boron Subnaphthalocyanine and Chloroâ€"Boron Subphthalocyanine as Electron Acceptors in Bilayer and Trilayer Organic Photovoltaics. ACS Applied Energy Materials, 2019, 2, 979-986.	2.5	16
60	Future Perspectives and Review on Organic Carbon Dots in Electronic Applications. ACS Nano, 2019, 13, 6224-6255.	7.3	266
61	Ligand cleavage enables formation of 1,2-ethanedithiol capped colloidal quantum dot solids. Nanoscale, 2019, 11, 10774-10781.	2.8	14
62	Cu(0)-RDRP as an efficient and low-cost synthetic route to blue-emissive polymers for OLEDs. Polymer Chemistry, 2019, 10, 3288-3297.	1.9	18
63	Naphthyridine-based emitters simultaneously exhibiting thermally activated delayed fluorescence and aggregation-induced emission for highly efficient non-doped fluorescent OLEDs. Journal of Materials Chemistry C, 2019, 7, 6607-6615.	2.7	30
64	Construction of Highâ€Quality Cu(I) Complexâ€Based WOLEDs with Dual Emissive Layers Achieved by an â€œOnâ€andâ€Offâ€•Deposition Strategy. Advanced Optical Materials, 2019, 7, 1801612.	3.6	8
65	Exciton-triggered luminance degradation of organic light-emitting diodes. Organic Electronics, 2019, 69, 160-163.	1.4	7
66	Straightforward and Relatively Safe Process for the Fluoride Exchange of Trivalent and Tetravalent Group 13 and 14 Phthalocyanines. ACS Omega, 2019, 4, 5317-5326.	1.6	10
67	Highly efficient top-emission organic light-emitting diode on an oxidized aluminum anode. Journal of Applied Physics, 2019, 125, .	1.1	8
68	In Situ Backâ€Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. Advanced Materials, 2019, 31, e1807435.	11.1	143
69	Energy disorder and energy level alignment between host and dopant in organic semiconductors. Communications Physics, 2019, 2, .	2.0	19
70	Bluish-Green Cu(I) Dimers Chelated with Thiophene Ring-Introduced Diphosphine Ligands for Both Singlet and Triplet Harvesting in OLEDs. ACS Applied Materials & Interfaces, 2019, 11, 3262-3270.	4.0	42
71	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. Nature Photonics, 2018, 12, 159-164.	15.6	303
72	Dual Ag electrodes for semitransparent organic light-emitting diodes. Organic Electronics, 2018, 57, 98-103.	1.4	4

#	Article	IF	Citations
73	Failure of Fermi Level in Referencing Chemical Shift of Molecules on Solid Surfaces. Advanced Materials Interfaces, 2018, 5, 1800150.	1.9	1
74	Deep Blue Phosphorescent Organic Lightâ€Emitting Diodes with CIE<i>y</i> Value of 0.11 and External Quantum Efficiency up to 22.5%. Advanced Materials, 2018, 30, e1705005.	11.1	147
75	Ability To Fine-Tune the Electronic Properties and Open-Circuit Voltage of Phenoxy-Boron Subphthalocyanines through Meta-Fluorination of the Axial Substituent. Journal of Physical Chemistry C, 2018, 122, 1091-1102.	1.5	25
76	Excitonic processes at organic heterojunctions. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	7
77	Excitonic Creation of Highly Luminescent Defects In Situ in Working Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2018, 6, 1700856.	3.6	6
78	Efficient non-doped fluorescent OLEDs with nearly 6% external quantum efficiency and deep-blue emission approaching the blue standard enabled by quaterphenyl-based emitters. Journal of Materials Chemistry C, 2018, 6, 4479-4484.	2.7	20
79	Energy Levels and Open-Circuit Voltages in Organic Solar Cells. , 2018, , .		0
80	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. Nature Communications, 2018, 9, 4003.	5.8	56
81	Butylamineâ€Catalyzed Synthesis of Nanocrystal Inks Enables Efficient Infrared CQD Solar Cells. Advanced Materials, 2018, 30, e1803830.	11.1	67
82	Nano-composites for enhanced catastrophic failure temperature of organic light-emitting diodes. Applied Physics Letters, 2018, 113, .	1.5	3
83	Tailoring Mg:Ag functionalities for organic light-emitting diodes. Organic Electronics, 2018, 63, 41-46.	1.4	13
84	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. Nature Communications, 2018, 9, 3541.	5.8	536
85	Activated Electronâ€Transport Layers for Infrared Quantum Dot Optoelectronics. Advanced Materials, 2018, 30, e1801720.	11.1	57
86	Glass transition temperatures in pure and composite organic thin-films. Organic Electronics, 2018, 60, 45-50.	1.4	13
87	De Novo Design of Excited-State Intramolecular Proton Transfer Emitters via a Thermally Activated Delayed Fluorescence Channel. Journal of the American Chemical Society, 2018, 140, 8877-8886.	6.6	153
88	Probing molecular orientations in thin films by x-ray photoelectron spectroscopy. AIP Advances, 2018, 8, 035218.	0.6	6
89	Integrated tandem device with photoactive layer for near-infrared to visible upconversion imaging. Applied Physics Letters, 2018, 112, .	1.5	18
90	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. Science, 2017, 355, 722-726.	6.0	2,019

#	Article	IF	Citations
91	Quantifying Interdopant Exciton Processes in Organic Light Emitting Diodes. Journal of Physical Chemistry C, 2017, 121, 3304-3309.	1.5	5
92	Stacking multiple connecting functional materials in tandem organic light-emitting diodes. Scientific Reports, 2017, 7, 43130.	1.6	11
93	Disruptive and reactive interface formation of molybdenum trioxide on organometal trihalide perovskite. Applied Physics Letters, 2017, 110, .	1.5	15
94	Mapping Energy Levels for Organic Heterojunctions. Advanced Materials, 2017, 29, 1700414.	11.1	26
95	Black Phase-Changing Cathodes for High-Contrast Organic Light-Emitting Diodes. ACS Photonics, 2017, 4, 1316-1321.	3.2	9
96	Oxy phosphorus tetrabenzotriazacorrole: firming up the chemical structure and identifying organic photovoltaic functionality to leverage its unique dual absorbance. Journal of Materials Chemistry A, 2017, 5, 10978-10985.	5.2	12
97	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. Nano Letters, 2017, 17, 3701-3709.	4.5	409
98	Highly Efficient Deepâ€Blue Electrophosphorescent Pt(II) Compounds with Nonâ€Distorted Flat Geometry: Tetradentate versus Macrocyclic Chelate Ligands. Advanced Functional Materials, 2017, 27, 1604318.	7.8	57
99	Cellulose Nanocrystal:Polymer Hybrid Optical Diffusers for Indexâ€Matchingâ€Free Light Management in Optoelectronic Devices. Advanced Optical Materials, 2017, 5, 1700430.	3.6	43
100	Rational design of isophthalonitrile-based thermally activated delayed fluorescence emitters for OLEDs with high efficiency and slow efficiency roll-off. Dyes and Pigments, 2017, 147, 350-356.	2.0	11
101	Highly efficient red iridium(<scp>iii</scp>) complexes cyclometalated by 4-phenylthieno[3,2-c]quinoline ligands for phosphorescent OLEDs with external quantum efficiencies over 20%. Journal of Materials Chemistry C, 2017, 5, 10220-10224.	2.7	47
102	On the Relationship Between Donor/Acceptor Interface Energy Levels and Openâ€Circuit Voltages. Advanced Electronic Materials, 2017, 3, 1700115.	2.6	7
103	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. Advanced Materials, 2017, 29, 1702350.	11.1	126
104	Chemically Addressable Perovskite Nanocrystals for Lightâ€Emitting Applications. Advanced Materials, 2017, 29, 1701153.	11.1	139
105	Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO₂ with High Activity and Tailored Selectivity. Advanced Science, 2017, 4, 1700252.	5.6	97
106	Novel Benzimidazoleâ€Containing Heterocyclic Compounds: Synthesis, Physical Properties and OLED Application. ChemistrySelect, 2017, 2, 11206-11210.	0.7	7
107	Photothermal Catalysis: Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO₂ with High Activity and Tailored Selectivity (Adv. Sci. 10/2017). Advanced Science, 2017, 4, .	5.6	2
108	Halogen-induced internal heavy-atom effect shortening the emissive lifetime and improving the fluorescence efficiency of thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2017, 5, 12204-12210.	2.7	79

#	Article	IF	Citations
109	Exciton dynamics of luminescent defects in aging organic light-emitting diodes. Journal of Applied Physics, 2017, 122, .	1.1	4
110	Optimizing Optoelectronic Properties of Pyrimidineâ€Based TADF Emitters by Changing the Substituent for Organic Lightâ€Emitting Diodes with External Quantum Efficiency Close to 25â€‰% and Slow Efficiency Rollâ€Off. Chemistry - A European Journal, 2016, 22, 10860-10866.	1.7	111
111	Tailoring Optoelectronic Properties of Phenanthrolineâ€Based Thermally Activated Delayed Fluorescence Emitters through Isomer Engineering. Advanced Optical Materials, 2016, 4, 1558-1566.	3.6	53
112	The Inâ€Gap Electronic State Spectrum of Methylammonium Lead Iodide Singleâ€Crystal Perovskites. Advanced Materials, 2016, 28, 3406-3410.	11.1	187
113	A multi-zoned white organic light-emitting diode with high CRI and low color temperature. Scientific Reports, 2016, 6, 20517.	1.6	28
114	Abnormal thin film structures in vapor-phase deposited methylammonium lead iodide perovskite. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	7
115	The mixed alloyed chemical composition of chloro-(chloro)_n-boron subnaphthalocyanines dictates their physical properties and performance in organic photovoltaic devices. Journal of Materials Chemistry A, 2016, 4, 9566-9577.	5.2	31
116	Characterization of Î¼-oxo-(BsubPc)₂ in Multiple Organic Photovoltaic Device Architectures: Comparing against and Combining with Cl-BsubPc. ACS Applied Materials & Interfaces, 2016, 8, 24712-24721.	4.0	14
117	Asymmetric-triazine-cored triads as thermally activated delayed fluorescence emitters for high-efficiency yellow OLEDs with slow efficiency roll-off. Journal of Materials Chemistry C, 2016, 4, 9998-10004.	2.7	50
118	Donorâ€Appended N,Câ€Chelate Organoboron Compounds: Influence of Donor Strength on Photochromic Behaviour. Chemistry - A European Journal, 2016, 22, 12464-12472.	1.7	44
119	Nonradiative Charge-Transfer Exciton Recombination at Organic Heterojunctions. Journal of Physical Chemistry C, 2016, 120, 21325-21329.	1.5	11
120	Highly Efficient Perovskiteâ€Quantumâ€Dot Lightâ€Emitting Diodes by Surface Engineering. Advanced Materials, 2016, 28, 8718-8725.	11.1	917
121	Long-Range Energy Transfer and Singlet-Exciton Migration in Working Organic Light-Emitting Diodes. Physical Review Applied, 2016, 5, .	1.5	16
122	Molecular Orientation and Energy Levels at Organic Interfaces. Advanced Electronic Materials, 2016, 2, 1600306.	2.6	18
123	Interface Structure of MoO3 on Organic Semiconductors. Scientific Reports, 2016, 6, 21109.	1.6	66
124	Ultralow-voltage Auger-electron-stimulated organic light-emitting diodes. Journal of Photonics for Energy, 2016, 6, 036001.	0.8	10
125	Perovskite energy funnels for efficient light-emitting diodes. Nature Nanotechnology, 2016, 11, 872-877.	15.6	1,868
126	ZnFe₂O₄ Leaves Grown on TiO₂ Trees Enhance Photoelectrochemical Water Splitting. Small, 2016, 12, 3181-3188.	5.2	56

#	Article	IF	Citations
127	Tunable Excitonic Processes at Organic Heterojunctions. Advanced Materials, 2016, 28, 649-654.	11.1	38
128	Doubleâ€Sided Junctions Enable Highâ€Performance Colloidalâ€Quantumâ€Dot Photovoltaics. Advanced Materials, 2016, 28, 4142-4148.	11.1	121
129	Auger-Electron-Stimulated Organic Electroluminescence at Ultralow Voltages Below the Energy Gap. Physical Review Applied, 2015, 3, .	1.5	13
130	Inâ€…Situ Solidâ€State Generation of (BN)₂â€Pyrenes and Electroluminescent Devices. Angewandte Chemie - International Edition, 2015, 54, 15074-15078.	7.2	105
131	Colloidal CdSe_{1â€“<i>x</i>}S_{<i>x</i>} Nanoplatelets with Narrow and Continuously-Tunable Electroluminescence. Nano Letters, 2015, 15, 4611-4615.	4.5	114
132	The position and frequency of fluorine atoms changes the electron donor/acceptor properties of fluorophenoxy silicon phthalocyanines within organic photovoltaic devices. Journal of Materials Chemistry A, 2015, 3, 24512-24524.	5.2	42
133	Assessing the Potential Roles of Silicon and Germanium Phthalocyanines in Planar Heterojunction Organic Photovoltaic Devices and How Pentafluoro Phenoxylation Can Enhance Ï€â€“Ï€ Interactions and Device Performance. ACS Applied Materials & Interfaces, 2015, 7, 5076-5088.	4.0	58
134	From chloro to fluoro, expanding the role of aluminum phthalocyanine in organic photovoltaic devices. Journal of Materials Chemistry A, 2015, 3, 5047-5053.	5.2	26
135	CuPc:C₆₀ nanocomposite: A pathway to control organic microstructure and phase transformation. Physica Status Solidi (B): Basic Research, 2015, 252, 545-552.	0.7	5
136	Boron Subphthalocyanines as Triplet Harvesting Materials within Organic Photovoltaics. Journal of Physical Chemistry Letters, 2015, 6, 3121-3125.	2.1	48
137	Structural, optical, and electronic studies of wide-bandgap lead halide perovskites. Journal of Materials Chemistry C, 2015, 3, 8839-8843.	2.7	161
138	Red emissive organic light-emitting diodes based on codeposited inexpensive Cu^I complexes. Journal of Materials Chemistry C, 2015, 3, 5835-5843.	2.7	17
139	Cubic structure of the mixed halide perovskite CH₃NH₃PbI_{3âˆ’x}Cl_xvia thermal annealing. RSC Advances, 2015, 5, 85480-85485.	1.7	21
140	Polyethylenimine (PEI) As an Effective Dopant To Conveniently Convert Ambipolar and p-Type Polymers into Unipolar n-Type Polymers. ACS Applied Materials & Interfaces, 2015, 7, 18662-18671.	4.0	49
141	Exciton management for high brightness in organic light-emitting diodes. Journal of Photonics for Energy, 2015, 5, 050998.	0.8	1
142	Stability of organometal perovskites with organic overlayers. AIP Advances, 2015, 5, 087185.	0.6	11
143	Blue phosphorescent N-heterocyclic carbene chelated Pt(<scp>ii</scp>) complexes with an Î±-duryl-Î²-diketonato ancillary ligand. Dalton Transactions, 2015, 44, 8433-8443.	1.6	45
144	Highly Efficient and Robust Blue Phosphorescent Pt(II) Compounds with a Phenylâ€1,2,3â€triazolyl and a Pyridylâ€1,2,4â€triazolyl Chelate Core. Advanced Functional Materials, 2014, 24, 7257-7271.	7.8	49

#	Article	IF	Citations
145	Bright Blue and White Electrophosphorescent Triarylborylâ€Functionalized C^Nâ€Chelate Pt(II) Compounds: Impact of Intramolecular Hydrogen Bonds and Ancillary Ligands. Advanced Functional Materials, 2014, 24, 1911-1927.	7.8	73
146	High-Power-Efficiency Blue Electrophosphorescence Enabled by the Synergistic Combination of Phosphine-Oxide-Based Host and Electron-Transporting Materials. Chemistry of Materials, 2014, 26, 1463-1470.	3.2	68
147	Acceptor Properties of Boron Subphthalocyanines in Fullerene Free Photovoltaics. Journal of Physical Chemistry C, 2014, 118, 14813-14823.	1.5	66
148	Efficient orange-red phosphorescent organic light-emitting diodes using an in situ synthesized copper(<scp>i</scp>) complex as the emitter. Journal of Materials Chemistry C, 2014, 2, 6333-6341.	2.7	30
149	Excitonâ€Stimulated Molecular Transformation in Organic Lightâ€Emitting Diodes. Advanced Materials, 2014, 26, 6729-6733.	11.1	21
150	Coâ€deposited Cu(I) Complex for Triâ€layered Yellow and White Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2014, 24, 5385-5392.	7.8	40
151	Considerations for the physical vapor deposition of high molar mass organic compounds. Vacuum, 2014, 109, 26-33.	1.6	10
152	Impact of lattice distortion and electron doping on Î±-MoO3 electronic structure. Scientific Reports, 2014, 4, 7131.	1.6	107
153	Highly Efficient Greenishâ€Yellow Phosphorescent Organic Lightâ€Emitting Diodes Based on Interzone Exciton Transfer. Advanced Functional Materials, 2013, 23, 3204-3211.	7.8	26
154	Thin-film metal oxides in organic semiconductor devices: their electronic structures, work functions and interfaces. NPG Asia Materials, 2013, 5, e55-e55.	3.8	322
155	The origin of the high work function of chlorinated indium tin oxide. NPG Asia Materials, 2013, 5, e57-e57.	3.8	41
156	Highly efficient blue phosphorescent and electroluminescent Ir(<scp>iii</scp>) compounds. Journal of Materials Chemistry C, 2013, 1, 441-450.	2.7	76
157	White Organic Light-Emitting Diodes for Solid-State Lighting. Journal of Display Technology, 2013, 9, 459-468.	1.3	118
158	Metal/Metalâ€Oxide Interfaces: How Metal Contacts Affect the Work Function and Band Structure of MoO₃. Advanced Functional Materials, 2013, 23, 215-226.	7.8	326
159	Highly Efficient Warm White Organic Lightâ€Emitting Diodes by Triplet Exciton Conversion. Advanced Functional Materials, 2013, 23, 705-712.	7.8	168
160	Comparison of CuPc-based organic thin-film transistors made by different dielectric structures. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 012201.	0.6	3
161	Improving the efficiency of red phosphorescent organic light emitting diodes by exciton management. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2537-2540.	0.8	5
162	Organic/inorganic hybrid optical upconversion devices for nearâ€infrared imaging. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2594-2597.	0.8	6

#	Article	IF	Citations
163	Organic Light-Emitting Diodes: Silicon Nanocrystal OLEDs: Effect of Organic Capping Group on Performance (Small 23/2012). Small, 2012, 8, 3542-3542.	5.2	1
164	Charge Carrier Mobility in Fluorinated Phenoxy Boron Subphthalocyanines: Role of Solid State Packing. Crystal Growth and Design, 2012, 12, 1095-1100.	1.4	31
165	Highly Efficient Blue Phosphorescence from Triarylboron-Functionalized Platinum(II) Complexes of <i>N</i>-Heterocyclic Carbenes. Journal of the American Chemical Society, 2012, 134, 13930-13933.	6.6	232
166	Transition Metal Oxide Work Functions: The Influence of Cation Oxidation State and Oxygen Vacancies. Advanced Functional Materials, 2012, 22, 4557-4568.	7.8	694
167	Hybrid Organic/Inorganic Optical Upâ€Converter for Pixelâ€Less Nearâ€Infrared Imaging. Advanced Materials, 2012, 24, 3138-3142.	11.1	46
168	<i>N</i>â€Heterocyclic Carbazoleâ€Based Hosts for Simplified Singleâ€Layer Phosphorescent OLEDs with High Efficiencies. Advanced Materials, 2012, 24, 2922-2928.	11.1	104
169	Bluishâ€Green BMes₂â€Functionalized Pt^{II} Complexes for High Efficiency PhOLEDs: Impact of the BMes₂ Location on Emission Color. Chemistry - A European Journal, 2012, 18, 11306-11316.	1.7	71
170	Universal energy-level alignment of molecules on metal oxides. Nature Materials, 2012, 11, 76-81.	13.3	836
171	Highly efficient orange electrophosphorescence from a trifunctional organoboronâ€“Pt(ii) complex. Chemical Communications, 2011, 47, 755-757.	2.2	73
172	A Polyboryl-Functionalized Triazine as an Electron Transport Material for OLEDs. Organometallics, 2011, 30, 5552-5555.	1.1	59
173	Phthalimido-boronsubphthalocyanines: New Derivatives of Boronsubphthalocyanine with Bipolar Electrochemistry and Functionality in OLEDs.. ACS Applied Materials & Interfaces, 2011, 3, 3538-3544.	4.0	53
174	Experimentally Validated Model for the Prediction of the HOMO and LUMO Energy Levels of Boronsubphthalocyanines. Journal of Physical Chemistry C, 2011, 115, 11709-11718.	1.5	57
175	High contrast green OLEDs using inorganic metal multi layer. Synthetic Metals, 2011, 161, 2211-2214.	2.1	7
176	Oxidized Gold Thin Films: An Effective Material for Highâ€Performance Flexible Organic Optoelectronics. Advanced Materials, 2010, 22, 2037-2040.	11.1	47
177	Enhancing Phosphorescence and Electrophosphorescence Efficiency of Cyclometalated Pt(II) Compounds with Triarylboron. Advanced Functional Materials, 2010, 20, 3426-3439.	7.8	138
178	Enhancing Phosphorescence and Electrophosphorescence Efficiency of Cyclometalated Pt(II) Compounds with Triarylboron. Advanced Functional Materials, 2010, 20, 3425-3425.	7.8	1
179	Nearâ€Infrared Inorganic/Organic Optical Upconverter with an External Power Efficiency of >100%. Advanced Materials, 2010, 22, 4900-4904.	11.1	42
180	Depleted-heterojunction colloidal quantum dot photovoltaics employing low-cost electrical contacts. Applied Physics Letters, 2010, 97, 023109.	1.5	39

#	Article	IF	Citations
181	Band Alignment at Anode/Organic Interfaces for Highly Efficient Simplified Blue-Emitting Organic Light-Emitting Diodes. Journal of Physical Chemistry C, 2010, 114, 16746-16749.	1.5	30
182	Pentafluorophenoxy Boron Subphthalocyanine As a Fluorescent Dopant Emitter in Organic Light Emitting Diodes. ACS Applied Materials & Interfaces, 2010, 2, 3147-3152.	4.0	60
183	Fluorinated Phenoxy Boron Subphthalocyanines in Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2010, 2, 1934-1944.	4.0	112
184	Effects of Processing Conditions on the Work Function and Energy-Level Alignment of NiO Thin Films. Journal of Physical Chemistry C, 2010, 114, 19777-19781.	1.5	176
185	Nearâ€infrared inorganic/organic hybrid optical upconverter with an embedded mirror. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S23.	0.8	0
186	Near-IR Optical Upconverter With Integrated Heterojunction Phototransistor and Organic Light-Emitting Diode. IEEE Photonics Technology Letters, 2009, 21, 1447-1449.	1.3	10
187	Impact of the Linker on the Electronic and Luminescent Properties of Diboryl Compounds: Molecules with Two BMes₂ Groups and the Peculiar Behavior of 1,6-(BMes₂)₂pyrene. Organometallics, 2008, 27, 6446-6456.	1.1	65
188	Nanostructured Magnetic Thin Films from Organometallic Block Copolymers: Pyrolysis of Self-Assembled Polystyrene-<i>block</i>-poly(ferrocenylethylmethylsilane). ACS Nano, 2008, 2, 263-270.	7.3	121
189	Enhanced efficiency in near-infrared inorganic/organic hybrid optical upconverter with an embedded mirror. Journal of Applied Physics, 2008, 103, 103112.	1.1	24
190	Blue organic light-emitting diodes based on Mes2B [p-4,4â€²-biphenyl-NPh(1-naphthyl)]. Journal of Applied Physics, 2008, 103, 034509.	1.1	43
191	Inorganic/Organic Hybrid Optical Upconversion Device. , 2007, , .		1
192	Transition Metal-Catalyzed Dissociation of Phosphineâˆ'Gallane Adducts:â€‰ Isolation of Mechanistic Model Complexes and Heterogeneous Catalyst Poisoning Studies. Inorganic Chemistry, 2007, 46, 7394-7402.	1.9	11
193	Pyrolysis of Highly Metallized Polymers:â€‰ Ceramic Thin Films Containing Magnetic CoFe Alloy Nanoparticles from a Polyferrocenylsilane with Pendant Cobalt Clusters. Chemistry of Materials, 2006, 18, 2591-2601.	3.2	58
194	2,5-Functionalized Spiro-Bisiloles as Highly Efficient Yellow-Light Emitters in Electroluminescent Devices. Advanced Functional Materials, 2006, 16, 681-686.	7.8	68
195	Mes2B(p-4,4â€˜-biphenyl-NPh(1-naphthyl)):Â A Multifunctional Molecule for Electroluminescent Devices. Chemistry of Materials, 2005, 17, 164-170.	3.2	195
196	Poisoning of Heterogeneous, Late Transition Metal Dehydrocoupling Catalysts by Boranes and Other Group 13 Hydrides. Journal of the American Chemical Society, 2005, 127, 5116-5124.	6.6	82
197	(1-Naphthyl)phenylamino functionalized three-coordinate organoboron compounds: syntheses, structures, and applications in OLEDs. Journal of Materials Chemistry, 2005, 15, 3326.	6.7	132
198	Nitrogen Distribution and Oxidation of HfOxNy Gate Dielectrics Deposited by MOCVD using [(C2H5)2N]4Hf with NO and O2. Materials Research Society Symposia Proceedings, 2004, 811, 19.	0.1	2

#	Article	IF	Citations
199	Ordered 2D arrays of ferromagnetic Fe/Co nanoparticle rings from a highly metallized metallopolymer precursor. Journal of Materials Chemistry, 2004, 14, 1686.	6.7	73
200	Static charge fluctuations inGa+-implanted silicon. Physical Review B, 1990, 41, 3284-3286.	1.1	14
201	Vaporâ€Phase Deposition of Highly Luminescent Embedded Perovskite Nanocrystals. Advanced Optical Materials, 0, , 2102809.	3.6	1