

Shih-Hung Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138
papers

3,681
citations

34
h-index

56
g-index

147
ext. papers

4,399
ext. citations

8.5
avg, IF

5.48
L-index

#	Paper	IF	Citations
138	Vacuum deposited WO ₃ /Al/Al:Ag anode for efficient red organic light-emitting diodes. <i>Organic Electronics</i> , 2022 , 103, 106454	3.5	
137	A phosphorescent OLED with an efficiency roll-off lower than 1% at 10 000 cd m ⁻² achieved by reducing the carrier mobility of the donors in an exciplex co-host system. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4955-4964	7.1	1
136	Aggregation Control, Surface Passivation, and Optimization of Device Structure Toward Near-Infrared Perovskite Quantum-Dot Light-Emitting Diodes with an EQE up to 15.4%. <i>Advanced Materials</i> , 2022 , e2109785	24	3
135	New Exciplex-Forming Co-Host System and Thienothiadazole-based Fluorescent Emitter for High-Efficiency and Promising Stability Near-Infrared OLED. <i>Advanced Optical Materials</i> , 2022 , 10, 2101952	8.1	0
134	Aggregation Control, Surface Passivation, and Optimization of Device Structure toward Near-Infrared Perovskite Quantum-Dot Light-Emitting Diodes with an EQE up to 15.4% (Adv. Mater. 18/2022). <i>Advanced Materials</i> , 2022 , 34, 2270132	24	
133	Transparent photodetectors with ultra-low dark current and high photoresponse for near-infrared detection. <i>Organic Electronics</i> , 2021 , 99, 106356	3.5	2
132	Organic Lead Halide Nanocrystals Providing an Ultra-Wide Color Gamut with Almost-Unity Photoluminescence Quantum Yield. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25202-25213	9.5	1
131	A micro-cavity forming electrode with high thermal stability for semi-transparent colorful organic photovoltaics exceeding 13% power conversion efficiency. <i>Nano Energy</i> , 2021 , 80, 105565	17.1	14
130	Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dual-Mode Operation. <i>Advanced Functional Materials</i> , 2021 , 31, 2008259	15.6	34
129	Vacuum-Deposited Transparent Organic Photovoltaics for Efficiently Harvesting Selective Ultraviolet and Near-Infrared Solar Energy. <i>Solar Rrl</i> , 2021 , 5, 2000564	7.1	3
128	The effect of ZnO preparation on the performance of inverted polymer solar cells under one sun and indoor light. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1196-1204	7.1	6
127	Counterion Migration Driven by Light-Induced Intramolecular Charge Transfer. <i>Jacs Au</i> , 2021 , 1, 282-293		3
126	Vacuum-Deposited Transparent Organic Photovoltaics for Efficiently Harvesting Selective Ultraviolet and Near-Infrared Solar Energy. <i>Solar Rrl</i> , 2021 , 5, 2170032	7.1	7
125	Transparent organic upconversion device targeting high- grade infrared visual image. <i>Nano Energy</i> , 2021 , 86, 106043	17.1	6
124	Structural effect of phenylcarbazole-based molecules on the exciplex-forming co-host system to achieve highly efficient phosphorescent OLEDs with low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9453-9464	7.1	3
123	Realizing a colorful polymer solar cell with high color purity via a metal alloy-dielectricmetal alloy electrode. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11142-11152	7.1	0
122	Enhancing the signal contrast ratio and stability of liquid crystal-based sensors by using fine grids made by photolithography of photoresists. <i>Analyst, The</i> , 2021 , 146, 3834-3840	5	3

121	Carbazole/Benzimidazole-Based Bipolar Molecules as the Hosts for Phosphorescent and Thermally Activated Delayed Fluorescence Emitters for Efficient OLEDs. <i>ACS Omega</i> , 2020 , 5, 10553-10561	3.9	15
120	Vacuum-Processed Small Molecule Organic Photodetectors with Low Dark Current Density and Strong Response to Near-Infrared Wavelength. <i>Advanced Optical Materials</i> , 2020 , 8, 2000519	8.1	14
119	New D-A-AQ Configured Small Molecule Donors Employing Conjugation to Red-shift the Absorption for Photovoltaics. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2520-2531	4.5	3
118	An alternative composite electrode for efficient organic light-emitting diodes. <i>Organic Electronics</i> , 2020 , 85, 105844	3.5	6
117	Versatile Pt(II) Pyrazolate Complexes: Emission Tuning via Interplay of Chelate Designs and Stacking Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16679-16690	9.5	15
116	Combinational Approach To Realize Highly Efficient Light-Emitting Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14254-14264	9.5	13
115	A Comparative Study via Photophysical and Electrical Characterizations on Interfacial and Bulk Exciplex-Forming Systems for Efficient Organic Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1011-1019	4	18
114	Overcoming the energy gap law in near-infrared OLEDs by exciton-vibration decoupling. <i>Nature Photonics</i> , 2020 , 14, 570-577	33.9	92
113	Unveiling the underlying mechanism of record-high efficiency organic near-infrared photodetector harnessing a single-component photoactive layer. <i>Materials Horizons</i> , 2020 , 7, 1171-1179	14.4	8
112	Roles of Ancillary Chelates and Overall Charges of Bis-tridentate Ir(III) Phosphors for OLED Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1084-1093	9.5	20
111	Ultra-Low Voltage Metal Oxide Thin Film Transistor by Low-Temperature Annealed Solution Processed LiAlO ₂ Gate Dielectric. <i>Electronic Materials Letters</i> , 2020 , 16, 22-34	2.9	17
110	Perovskite Photosensors Integrated with Silver Resonant-Cavity Color Filters Display Color Perception Beyond That of the Human Eye. <i>Advanced Functional Materials</i> , 2020 , 30, 2002503	15.6	11
109	Organic Photodetectors: Vacuum-Processed Small Molecule Organic Photodetectors with Low Dark Current Density and Strong Response to Near-Infrared Wavelength (Advanced Optical Materials 17/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070068	8.1	1
108	Device characteristics and material developments of indoor photovoltaic devices. <i>Materials Science and Engineering Reports</i> , 2020 , 139, 100517	30.9	62
107	Highly efficient blue and white light-emitting electrochemical cells employing substrates containing embedded diffusive layers. <i>Organic Electronics</i> , 2020 , 77, 105515	3.5	7
106	Revealing the Cooperative Relationship between Spin, Energy, and Polarization Parameters toward Developing High-Efficiency Exciplex Light-Emitting Diodes. <i>Advanced Materials</i> , 2019 , 31, e1904114	24	29
105	A Colorful Organic Photovoltaic Devices with a 5.48 % Power Conversion Efficiency 2019 ,		1
104	Near-Infrared Emission Induced by Shortened Pt-Pt Contact: Diplatinum(II) Complexes with Pyridyl Pyrimidinato Cyclometalates. <i>Inorganic Chemistry</i> , 2019 , 58, 13892-13901	5.1	18

103	Influence of Cation Order and Valence States on Magnetic Ordering in La ₂ Ni _{1-x} Mn _{1+x} O ₆ . <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900019	1.3	8
102	High-Efficiency Red and Near-Infrared Organic Light-Emitting Diodes Enabled by Pure Organic Fluorescent Emitters and an Exciplex-Forming Cohost. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23417-23427	9.5	29
101	Functional Pyrimidinyl Pyrazolate Pt(II) Complexes: Role of Nitrogen Atom in Tuning the Solid-State Stacking and Photophysics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900923	15.6	38
100	New D-A-A-Configured Small-Molecule Donors for High-Efficiency Vacuum-Processed Organic Photovoltaics under Ambient Light. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8337-8349	9.5	36
99	Multicomponent Zn _(1-x) Fe _{0.8x} Na _{0.2x} O semiconductors: Effect of dopant concentration and ionic radius on structural, opto-electronics, magnetic and sensing properties. <i>Materials Science in Semiconductor Processing</i> , 2019 , 98, 121-130	4.3	3
98	Structural, opto-electronics and magnetic study of Fe/Si doped ZnO. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 9344-9355	2.1	
97	Improvement of energy storage properties with the reduction of depolarization temperature in lead-free (1-x)Na _{0.5} Bi _{0.5} TiO ₃ -xAgTaO ₃ ceramics. <i>Journal of Applied Physics</i> , 2019 , 125, 054101	2.5	12
96	Role of Li ⁺ and Fe ³⁺ in modified ZnO: Structural, vibrational, opto-electronic, mechanical and magnetic properties. <i>Ceramics International</i> , 2019 , 45, 7232-7243	5.1	7
95	Reduction of dark current density in organic ultraviolet photodetector by utilizing an electron blocking layer of TAPC doped with MoO ₃ . <i>Organic Electronics</i> , 2019 , 65, 150-155	3.5	16
94	Role of Antisite Disorder, Rare-Earth Size, and Superexchange Angle on Band Gap, Curie Temperature, and Magnetization of R ₂ NiMnO ₆ Double Perovskites. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 141-153	4	37
93	Organic polymeric and small molecular electron acceptors for organic solar cells. <i>Materials Science and Engineering Reports</i> , 2018 , 124, 1-57	30.9	55
92	Luminescent Iridium Complexes with Bridging Pyrazolates: Characterization and Fabrication of OLEDs Using Vacuum Thermal Deposition. <i>Advanced Optical Materials</i> , 2018 , 6, 1800083	8.1	25
91	Exciplex-Forming Cohost for High Efficiency and High Stability Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2151-2157	9.5	49
90	Flexible quantum dot light-emitting devices for targeted photomedical applications. <i>Journal of the Society for Information Display</i> , 2018 , 26, 296-303	2.1	22
89	Bis-Tridentate Iridium(III) Phosphors with Very High Photostability and Fabrication of Blue-Emitting OLEDs. <i>Advanced Science</i> , 2018 , 5, 1800846	13.6	50
88	Probe exciplex structure of highly efficient thermally activated delayed fluorescence organic light emitting diodes. <i>Nature Communications</i> , 2018 , 9, 3111	17.4	83
87	Effect of ionic size compensation by Ag incorporation in homogeneous Fe-substituted ZnO: studies on structural, mechanical, optical, and magnetic properties.. <i>RSC Advances</i> , 2018 , 8, 24355-24369	3.7	10
86	Solution processed Li ₅ AlO ₄ dielectric for low voltage transistor fabrication and its application in metal oxide/quantum dot heterojunction phototransistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 790-798	7.1	21

85	Microwave-Polyol Synthesis of Sub-10-nm PbS Nanocrystals for Metal Oxide/Nanocrystal Heterojunction Photodetectors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6063-6072	5.6	7
84	Blue-emitting bis-tridentate Ir(III) phosphors: OLED performances vs. substituent effects. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10486-10496	7.1	14
83	Isomeric spiro-[acridine-9,9'-fluorene]-2,6-dipyridylpyrimidine based TADF emitters: insights into photophysical behaviors and OLED performances. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10088-10100	7.1	33
82	Vacuum-deposited MoO ₃ /Ag/WO ₃ multilayered electrode for highly efficient transparent and inverted organic light-emitting diodes. <i>Organic Electronics</i> , 2018 , 59, 266-271	3.5	18
81	84-4: Invited Paper: Near-Infrared Organic Upconversion Device with High Image Sensing Quality. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1147-1150	0.5	1
80	22-3: Distinguished Student Paper: Flexible Quantum Dot Light Emitting Devices for Photomedicine. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 275-278	0.5	1
79	26-1: Invited Paper: High Efficiency and High Stability Exciplex-Based OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 328-331	0.5	0
78	Versatile Exciplex-Forming Co-Host for Improving Efficiency and Lifetime of Fluorescent and Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24090-24098	9.5	43
77	Iridium(III) Complexes Bearing Tridentate Chromophoric Chelate: Phosphorescence Fine-Tuned by Phosphine and Hydride Ancillary. <i>Inorganic Chemistry</i> , 2018 , 57, 8287-8298	5.1	16
76	Efficient thermally activated delayed fluorescence of functional phenylpyridinato boron complexes and high performance organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1452-1462	7.1	55
75	The synthesis, structure, and properties of 5,6,11,12-tetraaryllindeno[1,2-b]fluorenes and their applications as donors for organic photovoltaic devices. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 675-681	5.2	8
74	Functional Pyrimidine-Based Thermally Activated Delay Fluorescence Emitters: Photophysics, Mechanochromism, and Fabrication of Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2017 , 23, 2858-2866	4.8	58
73	Highly efficient ITO-free organic light-emitting diodes employing a roughened ultra-thin silver electrode. <i>Organic Electronics</i> , 2017 , 42, 52-58	3.5	16
72	Highly efficient exciplex organic light-emitting devices employing a sputtered indium-tin oxide electrode with nano-pinhole morphology. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12050-12056	7.1	10
71	Enhancing extracted electroluminescence from light-emitting electrochemical cells by employing high-refractive-index substrates. <i>Organic Electronics</i> , 2017 , 51, 149-155	3.5	13
70	First N-Borylated Emitters Displaying Highly Efficient Thermally Activated Delayed Fluorescence and High-Performance OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27090-27101	9.5	40
69	Sky Blue-Emitting Iridium(III) Complexes Bearing Nonplanar Tetradentate Chromophore and Bidentate Ancillary. <i>Inorganic Chemistry</i> , 2017 , 56, 10054-10060	5.1	24
68	Near-infrared organic light-emitting diodes with very high external quantum efficiency and radiance. <i>Nature Photonics</i> , 2017 , 11, 63-68	33.9	346

67	Unprecedented Homoleptic Bis-Tridentate Iridium(III) Phosphors: Facile, Scaled-Up Production, and Superior Chemical Stability. <i>Advanced Functional Materials</i> , 2017 , 27, 1702856	15.6	36
66	Room temperature blue phosphorescence: a combined experimental and theoretical study on the bis-tridentate Ir(III) metal complexes. <i>Dalton Transactions</i> , 2016 , 45, 15364-15373	4.3	39
65	Cathodic-controlled and near-infrared organic upconverter for local blood vessels mapping. <i>Scientific Reports</i> , 2016 , 6, 32324	4.9	19
64	Pyridyl Pyrrolide Boron Complexes: The Facile Generation of Thermally Activated Delayed Fluorescence and Preparation of Organic Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2016 , 128, 3069-3073	3.6	26
63	Platinum(II)-Mediated Double Coupling of 2,3-Diphenylmaleimidine with Nitrile Functionalities To Give Annulated Pentaazanonatetraene (PANT) Systems. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 1480-1487	2.3	3
62	Pyridyl Pyrrolide Boron Complexes: The Facile Generation of Thermally Activated Delayed Fluorescence and Preparation of Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3017-21	16.4	142
61	Inducing the trap-site in an emitting-layer for an organic upconversion device exhibiting high current-gain ratio and low turn-on voltage. <i>Organic Electronics</i> , 2016 , 30, 275-280	3.5	13
60	ITO-free, efficient, and inverted phosphorescent organic light-emitting diodes using a WO ₃ /Ag/WO ₃ multilayer electrode. <i>Organic Electronics</i> , 2016 , 31, 240-246	3.5	28
59	Balance the Carrier Mobility To Achieve High Performance Exciplex OLED Using a Triazine-Based Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4811-8	9.5	135
58	Bis-Tridentate Ir(III) Complexes with Nearly Unitary RGB Phosphorescence and Organic Light-Emitting Diodes with External Quantum Efficiency Exceeding 31%. <i>Advanced Materials</i> , 2016 , 28, 2795-800	24	199
57	Insight into the mechanism and outcoupling enhancement of excimer-associated white light generation. <i>Chemical Science</i> , 2016 , 7, 3556-3563	9.4	70
56	Highly Twisted Dye Anchoring D-πA Sensitizers for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27832-27842	9.5	23
55	Influence of Singlet and Charge-Transfer Excitons on the Open-Circuit Voltage of Rubrene/Fullerene Organic Photovoltaic Device. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28757-28762	9.5	12
54	Low resistance and high work-function WO ₃ /Ag/MoO ₂ multilayer as transparent anode for bright organic light-emitting diodes. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 03CC01	1.4	4
53	A new anodic buffer layer material for non-mixed planar heterojunction chloroboron subphthalocyanine organic photovoltaic achieving 96% internal quantum efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 138-145	6.4	8
52	Downscaling the Sample Thickness to Sub-Micrometers by Employing Organic Photovoltaic Materials as a Charge-Generation Layer in the Time-of-Flight Measurement. <i>Scientific Reports</i> , 2015 , 5, 10384	4.9	8
51	Improving performance and lifetime of small-molecule organic photovoltaic devices by using bathocuproine-fullerene cathodic layer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9262-73	9.5	5
50	Heteroleptic Ir(III) phosphors with bis-tridentate chelating architecture for high efficiency OLEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3460-3471	7.1	48

49	Pt(II) metal complexes tailored with a newly designed spiro-arranged tetradentate ligand; harnessing of charge-transfer phosphorescence and fabrication of sky blue and white OLEDs. <i>Inorganic Chemistry</i> , 2015 , 54, 4029-38	5.1	66
48	Decoupling the optical and electrical properties of subphthalocyanine/C70 bi-layer organic photovoltaic devices: improved photocurrent while maintaining a high open-circuit voltage and fill factor. <i>RSC Advances</i> , 2015 , 5, 5617-5626	3.7	9
47	A silole copolymer containing a ladder-type heptacyclic arene and naphthobisoxadiazole moieties for highly efficient polymer solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 552-557	35.4	60
46	Transparent organic upconversion devices for near-infrared sensing. <i>Advanced Materials</i> , 2015 , 27, 1217-22	24	45
45	The effect of charge transfer state on the open-circuit voltage of small-molecular organic photovoltaic devices: A comparison between the planar and bulk heterojunctions using electroluminescence characterization. <i>Organic Electronics</i> , 2015 , 16, 1-8	3.5	16
44	Sensing: Transparent Organic Upconversion Devices for Near-Infrared Sensing (Adv. Mater. 7/2015). <i>Advanced Materials</i> , 2015 , 27, 1216-1216	24	
43	Chloroboron subphthalocyanine/C60 planar heterojunction organic solar cell with N,N-dicarbazolyl-3,5-benzene blocking layer. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 122, 264-270	6.4	30
42	Dye-Sensitized Solar Cells Based on Functionally Separated D- π -A Dyes with 2-Cyanopyridine as an Electron-Accepting and Anchoring Group. <i>Asian Journal of Organic Chemistry</i> , 2014 , 3, 153-160	3	34
41	Structural tuning of ancillary chelate in tri-carboxyterpyridine Ru(II) sensitizers for dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5418-5426	13	20
40	Os(II) metal phosphors bearing tridentate 2,6-di(pyrazol-3-yl)pyridine chelate: synthetic design, characterization and application in OLED fabrication. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6269	7.1	32
39	Panchromatic Ru(II) sensitizers bearing single thiocyanate for high efficiency dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17618-17627	13	47
38	Efficiency improvement of organic bifunctional devices by applying omnidirectional antireflection nanopillars. <i>RSC Advances</i> , 2014 , 4, 9588	3.7	3
37	Ultra-thin and graded sliver electrodes for use in transparent pentacene field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 1990-1997	3.5	6
36	Comprehensive study of medium-bandgap conjugated polymer merging a fluorinated quinoxaline with branched side chains for highly efficient and air-stable polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20203-20212	13	15
35	In Situ Measurement of Energy Level Shifts and Recombination Rates in Subphthalocyanine/C60 Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22858-22864	3.8	15
34	Highly Efficient Dye-Sensitized Solar Cells Based on Panchromatic Ruthenium Sensitizers with Quinolinylbipyridine Anchors. <i>Angewandte Chemie</i> , 2014 , 126, 182-187	3.6	9
33	Tandem Organic Light-Emitting Diode and Organic Photovoltaic Device Inside Polymer Dispersed Liquid Crystal Cell. <i>Journal of Display Technology</i> , 2013 , 9, 787-793		5
32	Harnessing the open-circuit voltage via a new series of Ru(II) sensitizers bearing (iso-)quinolinyl pyrazolate ancillaries. <i>Energy and Environmental Science</i> , 2013 , 6, 859	35.4	60

31	Thiocyanate-Free Ru(II) Sensitizers with a 4,4'-Dicarboxyvinyl-2,2'-bipyridine Anchor for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 2285-2294	15.6	26
30	Ru(II) sensitizers bearing dianionic diazolate ancillaries: ligand synergy for high performance dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7681	13	26
29	Harnessing Fluorescence versus Phosphorescence Branching Ratio in (Phenyl) _n -Bridged (n = 0-8) Bimetallic Au(I) Complexes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9623-9632	3.8	49
28	Improvement in the open-circuit voltage of an organic photovoltaic device through selection of a suitable and low-lying highest occupied molecular orbital for the electron donor layer. <i>Journal of Materials Research</i> , 2013 , 28, 1442-1448	2.5	8
27	Single-Layer Blue Electrophosphorescent Organic Light-Emitting Diodes Based on Small-Molecule Mixed Hosts: Comparison between the Solution and Vacuum Fabrication Processes. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 012101	1.4	12
26	Improvement in the Power Conversion Efficiency of Bulk Heterojunction Photovoltaic Device via Thermal Postannealing of Subphthalocyanine:C70 Active Layer. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-7	2.1	2
25	Enhancing Device Performance of Small Molecular Organic Photovoltaic Cells by Controlling the Deposition Rate of Fullerene. <i>Journal of the Chinese Chemical Society</i> , 2013 , 60, 160-165	1.5	1
24	Open-circuit voltage and efficiency improvement of subphthalocyanine-based organic photovoltaic device through deposition rate control. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 69-75	6.4	36
23	A new model for optimization of organic light-emitting device by concurrent incorporation of electrical and optical simulations. <i>Journal of Applied Physics</i> , 2012 , 112, 084507	2.5	4
22	Ru(II) sensitizers with a tridentate heterocyclic cyclometalate for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 7549	35.4	50
21	Theoretical Study of N749 Dyes Anchoring on the (TiO ₂) ₂₈ Surface in DSSCs and Their Electronic Absorption Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16338-16345	3.8	70
20	Donor-acceptor dyes with fluorine substituted phenylene spacer for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1937-1945		120
19	Stamped Self-Assembled Monolayers on Electrode for Connecting Organic Light-Emitting Diode and Organic Photovoltaic Device. <i>Journal of Display Technology</i> , 2011 , 7, 229-234		4
18	Efficient Deep Blue Organic Light-Emitting Diodes Based on Wide Band Gap 4-Hydroxy-8-Methyl-1,5-Naphthyridine Aluminum Chelate as Emitting and Electron Transporting Layer. <i>Journal of Display Technology</i> , 2011 , 7, 454-458		3
17	P-131: Fully Integration of Transflective Hybrid Device Consisting of PSCT and In-cell OLED. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 1602-1605	0.5	3
16	P-178: Semi-transparent Tandem Device Comprising Organic Light-emitting Diodes and Organic Solar Cell. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 1767-1769	0.5	2
15	P-180: Low-Reflectance Organic Light-emitting Diode Embedded with Organic Solar Cell. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 1773-1775	0.5	
14	The Effect of Controlled Dopant Concentration on the Performance of Blue Polymer Light-emitting Diodes. <i>Journal of the Chinese Chemical Society</i> , 2011 , 58, 326-331	1.5	2

13	Solution-processed organic micro crystal transistor based on tetraceno[2,3-b]thiophene from a monoketone precursor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11317		7
12	Efficient Hybrid White Organic Light-Emitting Devices with a Reduced Efficiency Roll-off Based on a Blue Fluorescent Emitter of Which Charge Carriers Are Ambipolar and Electric-Field Independent. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2428-2432	3.8	18
11	In situ vacuum measurement of the thickness dependence of electron mobility in naphthalenetetracarboxylic diimide-based field-effect transistors. <i>Applied Physics Letters</i> , 2011 , 98, 023306	3.4	7
10	39.1: Solution Processed Molecular Materials in the Fabrication of Flexible Phosphorescence-based OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 548	0.5	
9	High-efficiency blue organic light-emitting diodes using a 3,5-di(9H-carbazol-9-yl)tetraphenylsilane host via a solution-process. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8411		109
8	4-Hydroxy-8-methyl-1,5-naphthyridine aluminium chelate: a morphologically stable and efficient exciton-blocking material for organic photovoltaics with prolonged lifetime. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7800		34
7	P-158: Connecting Architecture for Organic Light-emitting Diodes Integrated with Organic Photovoltaic Device. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 1841	0.5	
6	Achieving high-efficiency non-doped blue organic light-emitting diodes: charge-balance control of bipolar blue fluorescent materials with reduced hole-mobility. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5561		65
5	Highly efficient red electrophosphorescent device incorporating a bipolar triphenylamine/bisphenylsulfonyl-substituted fluorene hybrid as the host. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8002		55
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