Chih-Wei Chu

List of Publications by Year
in descending order

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262 papers	18,633 citations	17440 63 h-index	13771 129 g-index
264 all docs	264 docs citations	264 times ranked	22556 citing authors

#	Article	IF	Citations
1	Few-layer fluorine-functionalized graphene hole-selective contacts for efficient inverted perovskite solar cells. Chemical Engineering Journal, 2022, 430, 132831.	12.7	13
2	Sequential stacking of a thin BHJ layer acting as a morphology regulator for efficiency enhancement in non-fullerene ternary solar cells. Chemical Engineering Journal, 2022, 433, 134337.	12.7	7
3	Enhancing the Areal Capacity and Stability of Cu₂ZnSnS₄ Anode Materials by Carbon Coating: Mechanistic and Structural Studies During Lithiation and Delithiation. ACS Omega, 2022, 7, 9152-9163.	3.5	4
4	Core-twisted tetrachloroperylenediimide additives improve the crystallinity of perovskites to provide efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2022, 243, 111779.	6.2	3
5	Sweetening Lithium Metal Interface by High Surface and Adhesive Energy Coating of Crystalline Î±â€<scp>d</scp>â€Glucose Film to Inhibit Dendrite Growth. Small, 2022, 18, .	10.0	5
6	An amino-phthalocyanine additive enhances the efficiency of perovskite solar cells through defect passivation in mixed-halide films. Organic Electronics, 2022, 108, 106568.	2.6	4
7	(Digital Presentation) Stable Passivation Layer of Oxygen Deficient Î±-MoO_{3-X} Nanobelts Suppress Li Dendrites to Achieve High-Capacity Li-S Battery. ECS Meeting Abstracts, 2022, MA2022-01, 517-517.	0.0	0
8	Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dualâ€Mode Operation. Advanced Functional Materials, 2021, 31, 2008259.	14.9	83
9	Low-temperature processed bipolar metal oxide charge transporting layers for highly efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2021, 221, 110870.	6.2	12
10	Benzodithiophene-based small molecules with various termini as hole transporting materials in efficient planar perovskite solar cells. Organic Electronics, 2021, 89, 106010.	2.6	7
11	Microstructural intra-granular cracking in Cu₂ZnSnS₄@C thin-film anode enhanced the electrochemical performance in lithium-ion battery applications. Materials Advances, 2021, 2, 5672-5685.	5.4	3
12	Perfluorinated ionomer and poly(3,4-ethylenedioxythiophene) colloid as a hole transporting layer for optoelectronic devices. Journal of Materials Chemistry A, 2021, 9, 17967-17977.	10.3	8
13	Recent Advances on Supramolecular Gels: From Stimuli-Responsive Gels to Co-Assembled and Self-Sorted Systems. Organic Materials, 2021, 03, 025-040.	2.0	34
14	Discrete Metal-Oxide Clusters with Organofunctionalization as High-Performance Anode Materials. ACS Applied Energy Materials, 2021, 4, 643-654.	5.1	3
15	Solution-Processed Perovskite/Perovskite Heterostructure Via a Grafting-Assisted Transfer Technique. ACS Applied Energy Materials, 2021, 4, 1962-1971.	5.1	9
16	High-Performance Organic Photovoltaics Incorporating an Active Layer with a Few Nanometer-Thick Third-Component Layer on a Binary Blend Layer. Nano Letters, 2021, 21, 2207-2215.	9.1	30
17	Perspective on Predominant Metal Oxide Charge Transporting Materials for High-Performance Perovskite Solar Cells. Frontiers in Materials, 2021, 8, .	2.4	9
18	High-Performance Organic Solar Cells Featuring Double Bulk Heterojunction Structures with Vertical-Gradient Selenium Heterocyclic Nonfullerene Acceptor Concentrations. ACS Applied Materials & Interfaces, 2021, 13, 27227-27236.	8.0	30

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19	Design of a Metalâ€“Organic Frameworkâ€Derived Co₉S₈/S Material for Achieving High Durability and High Performance of Lithiumâ€“Sulfur Batteries. ChemElectroChem, 2021, 8, 3040-3048.	3.4	4
20	Electrochemical Performance of Orthorhombic CsPbI3 Perovskite in Li-Ion Batteries. Materials, 2021, 14, 5718.	2.9	4
21	Panchromatic heterojunction solar cells for Pb-free all-inorganic antimony based perovskite. Chemical Engineering Journal, 2021, 419, 129424.	12.7	46
22	Oxygen-Enriched Î±-MoO3â€“ nanobelts suppress lithium dendrite formation in stable lithium-metal batteries. Journal of Power Sources, 2021, 507, 230306.	7.8	12
23	Modulation of work function of ITO by self-assembled monolayer and its effect on device characteristics of inverted perovskite solar cells. Organic Electronics, 2021, 98, 106297.	2.6	15
24	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaicsâ€”A Realâ€Time Phaseâ€Transition Study. Advanced Materials, 2021, 33, e2006238.	21.0	30
25	Upconversion Plasmonic Lasing from an Organolead Trihalide Perovskite Nanocrystal with Low Threshold. ACS Photonics, 2021, 8, 335-342.	6.6	26
26	Introducing Postmetalation Metalâ€“Organic Framework to Control Perovskite Crystal Growth for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 60125-60134.	8.0	11
27	Nucleation and crystal growth control for scalable solution-processed organicâ€“inorganic hybrid perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 1578-1603.	10.3	112
28	Perovskite Quantum Dot Lasing in a Gap-Plasmon Nanocavity with Ultralow Threshold. ACS Nano, 2020, 14, 11670-11676.	14.6	71
29	Asymmetric Benzotrithiophene-Based Hole Transporting Materials Provide High-Efficiency Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, , .	8.0	8
30	Modulating Performance and Stability of Inorganic Lead-Free Perovskite Solar Cells via Lewis-Pair Mediation. ACS Applied Materials & Interfaces, 2020, 12, 32649-32657.	8.0	32
31	Layered perovskite materials: key solutions for highly efficient and stable perovskite solar cells. Reports on Progress in Physics, 2020, 83, 086502.	20.1	48
32	Dionâ€“Jacobson Phase Perovskite Ca₂Na_{nâ€“3}Nb_nO_{3n+1}^{â€“} (n = 4â€“6) Nanosheets as High-Î² Photovoltaic Electrode Materials in a Solar Water-Splitting Cell. ACS Applied Nano Materials, 2020, 3, 6367-6375.	5.0	12
33	Stimuli-responsive polymer as gate dielectric for organic transistor sensors. Organic Electronics, 2020, 85, 105818.	2.6	14
34	Coreâ€Twisted Tetrachloroperylenediimides: Lowâ€Cost and Efficient Nonâ€Fullerene Organic Electronâ€Transporting Materials for Inverted Planar Perovskite Solar Cells. ChemSusChem, 2020, 13, 3686-3695.	6.8	7
35	Long-lifespan lithiumâ€“metal batteries obtained using a perovskite intercalation layer to stabilize the lithium electrode. Journal of Materials Chemistry A, 2020, 8, 9137-9145.	10.3	4
36	Suppression of surface defects to achieve hysteresis-free inverted perovskite solar cells via quantum dot passivation. Journal of Materials Chemistry A, 2020, 8, 5263-5274.	10.3	67

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37	Lead-Free Antimony-Based Light-Emitting Diodes through the Vaporâ€“Anion-Exchange Method. ACS Applied Materials & Interfaces, 2019, 11, 35088-35094.	8.0	74
38	Modified Separators with Ultrathin Graphite Coating Simultaneously Mitigate the Issues of Metal Dendrites and Lithium Polysulfides to Provide Stable Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 16604-16611.	6.7	23
39	A lithium passivated MoO₃ nanobelt decorated polypropylene separator for fast-charging long-life Liâ€“S batteries. Nanoscale, 2019, 11, 2892-2900.	5.6	38
40	Improved conversion efficiency of perovskite solar cells converted from thermally deposited lead iodide with dimethyl sulfoxide-treated poly(3,4-ethylenedioxythiophene) poly(styrene sulfonate). Organic Electronics, 2019, 73, 266-272.	2.6	4
41	Bilayer polymer solar cells prepared with transfer printing of active layers from controlled swelling/de-swelling of PDMS. Nano Energy, 2019, 63, 103826.	16.0	24
42	Cost-effective dopant-free star-shaped oligo-aryl amines for high performance perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 14209-14221.	10.3	37
43	Pyrene-SH functionalized OTFT for detection of Hg2+ ions in aquatic environments. Organic Electronics, 2019, 69, 275-280.	2.6	17
44	Facile synthesis of composite tin oxide nanostructures for high-performance planar perovskite solar cells. Nano Energy, 2019, 60, 275-284.	16.0	57
45	Lightâ€Responsive Arylazopyrazole Gelators: From Organic to Aqueous Media and from Supramolecular to Dynamic Covalent Chemistry. Chemistry - A European Journal, 2019, 25, 6131-6140.	3.3	44
46	Mitigating Metal Dendrite Formation in Lithiumâ€“Sulfur Batteries via Morphology-Tunable Graphene Oxide Interfaces. ACS Applied Materials & Interfaces, 2019, 11, 2060-2070.	8.0	19
47	Coral-like perovskite nanostructures for enhanced light-harvesting and accelerated charge extraction in perovskite solar cells. Nano Energy, 2019, 58, 138-146.	16.0	38
48	Fabrication of flexible indium tin oxide-free polymer solar cells with silver nanowire transparent electrode. Japanese Journal of Applied Physics, 2018, 57, 03DD01.	1.5	7
49	Circular Dichroism Control of Tungsten Diselenide (WSe₂) Atomic Layers with Plasmonic Metamolecules. ACS Applied Materials & Interfaces, 2018, 10, 15996-16004.	8.0	25
50	UV- and NIR-Protective Semitransparent Smart Windows Based on Metal Halide Solar Cells. ACS Applied Energy Materials, 2018, 1, 632-637.	5.1	18
51	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of Cs₃Sb₂I₉. ACS Applied Materials & Interfaces, 2018, 10, 2566-2573.	8.0	137
52	Role of a hydrophobic scaffold in controlling the crystallization of methylammonium antimony iodide for efficient lead-free perovskite solar cells. Nano Energy, 2018, 45, 330-336.	16.0	49
53	Natural polymers for disposable organic thin film transistors. Organic Electronics, 2018, 54, 154-160.	2.6	24
54	Well-aligned Vertically Oriented ZnO Nanorod Arrays and their Application in Inverted Small Molecule Solar Cells. Journal of Visualized Experiments, 2018, , .	0.3	4

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55	A novel ball milling technique for room temperature processing of TiO₂ nanoparticles employed as the electron transport layer in perovskite solar cells and modules. Journal of Materials Chemistry A, 2018, 6, 7114-7122.	10.3	35
56	A Design Based on a Charge-Transfer Bilayer as an Electron Transport Layer for Improving the Performance and Stability in Planar Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 236-244.	3.1	50
57	The 3â€‰D Structure of Twisted Benzo[ghi]peryleneâ€Triimide Dimer as a Nonâ€Fullerene Acceptor for Inverted Perovskite Solar Cells. ChemSusChem, 2018, 11, 415-423.	6.8	27
58	New Helicene-Type Hole-Transporting Molecules for High-Performance and Durable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 41439-41449.	8.0	43
59	Flexible Organic Thin Film Transistors Incorporating a Biodegradable CO2-Based Polymer as the Substrate and Dielectric Material. Scientific Reports, 2018, 8, 8146.	3.3	31
60	Enhanced Organic Solar Cell Performance by Lateral Side Chain Engineering on Benzodithiophene-Based Small Molecules. ACS Applied Energy Materials, 2018, 1, 3684-3692.	5.1	12
61	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. ACS Applied Materials & Interfaces, 2018, 10, 17973-17984.	8.0	31
62	Facile synthesis of carbon/MoO 3 nanocomposites as stable battery anodes. Journal of Power Sources, 2017, 348, 270-280.	7.8	54
63	Complementary hydrogen bonding interaction-mediated hole injection in organic light-emitting devices. Journal of Materials Chemistry C, 2017, 5, 4736-4741.	5.5	9
64	Solution-processable electron transport layer for efficient hybrid perovskite solar cells beyond fullerenes. Solar Energy Materials and Solar Cells, 2017, 169, 78-85.	6.2	38
65	Synthesis of fluorinated benzotriazole (BTZ)- and benzodithiophene (BDT)-based low-bandgap conjugated polymers for solar cell applications. Dyes and Pigments, 2017, 139, 349-360.	3.7	16
66	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. Journal of Materials Chemistry A, 2017, 5, 20843-20850.	10.3	169
67	Bifacial Perovskite Solar Cells Featuring Semitransparent Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 32635-32642.	8.0	49
68	NbSe interlayers decrease interfacial recombination in BiI3-based hybrid solar cells. FlatChem, 2017, 5, 18-24.	5.6	13
69	Modified Separator Performing Dual Physical/Chemical Roles to Inhibit Polysulfide Shuttle Resulting in Ultrastable Liâ€“S Batteries. ACS Nano, 2017, 11, 12436-12445.	14.6	83
70	Water-soluble fullerene-functionalized polymer micelles for efficient aqueous-processed conductive devices. Polymer Chemistry, 2017, 8, 7469-7474.	3.9	8
71	Hierarchical supramolecular hydrogels: self-assembly by peptides and photo-controlled release via hostâ€“guest interaction. Chemical Communications, 2017, 53, 12450-12453.	4.1	53
72	Efficient molecular solar cells processed from green solvent mixtures. Journal of Materials Chemistry A, 2017, 5, 571-582.	10.3	34

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73	Flexible Indium Tin Oxide-Free Polymer Solar Cells with Silver Nanowire Electrodes. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 839-843.	0.5	3
74	Toward environmentally compatible molecular solar cells processed from halogen-free solvents. Journal of Materials Chemistry A, 2016, 4, 7341-7351.	10.3	23
75	Bifunctional separator as a polysulfide mediator for highly stable Liâ€“S batteries. Journal of Materials Chemistry A, 2016, 4, 9661-9669.	10.3	86
76	ITO-free inverted small molecule solar cells. , 2016, , .		0
77	Enhance the light-harvesting capability of the ITO-free inverted small molecule solar cell by ZnO nanorods. Optics Express, 2016, 24, 17910.	3.4	10
78	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped (BaK)Fe2As2. Scientific Reports, 2016, 6, 25962.	3.3	3
79	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. Scientific Reports, 2016, 6, 34319.	3.3	72
80	Highly efficient organicâ€“inorganic electroluminescence materials for solution-processed blue organic light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 6461-6465.	5.5	24
81	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe₂ by Hydrohalic Acid Treatment. ACS Nano, 2016, 10, 1454-1461.	14.6	179
82	Synergistic improvements in stability and performance of lead iodide perovskite solar cells incorporating salt additives. Journal of Materials Chemistry A, 2016, 4, 1591-1597.	10.3	183
83	Planar Heterojunction Perovskite Solar Cells Incorporating Metalâ€“Organic Framework Nanocrystals. Advanced Materials, 2015, 27, 7229-7235.	21.0	134
84	Capillarityâ€Assisted Electrostatic Assembly of Hierarchically Functional 3D Graphene: TiO₂ Hybrid Photoanodes. Advanced Materials Interfaces, 2015, 2, 1500292.	3.7	4
85	Photoanodes: Capillarityâ€Assisted Electrostatic Assembly of Hierarchically Functional 3D Graphene: TiO₂ Hybrid Photoanodes (Adv. Mater. Interfaces 17/2015). Advanced Materials Interfaces, 2015, 2, .	3.7	1
86	Using an Airbrush Pen for Layer-by-Layer Growth of Continuous Perovskite Thin Films for Hybrid Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 2359-2366.	8.0	82
87	Efficiency enhancement of organic solar cells using peroxo-polytitanic acid coated silver nanowires as transparent electrodes. RSC Advances, 2015, 5, 18990-18996.	3.6	8
88	Preparation of metal halide perovskite solar cells through a liquid droplet assisted method. Journal of Materials Chemistry A, 2015, 3, 9257-9263.	10.3	47
89	New bioinspired hole injection/transport materials for highly efficient solution-processed phosphorescent organic light-emitting diodes. Nano Energy, 2015, 13, 1-8.	16.0	27
90	Epitaxial growth of a monolayer WSe ₂ -MoS ₂ lateral p-n junction with an atomically sharp interface. Science, 2015, 349, 524-528.	12.6	1,009

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91	Efficient and stable polymer solar cells prepared using plasmonic graphene oxides as anode buffers. Semiconductor Science and Technology, 2015, 30, 085013.	2.0	2
92	Quantitative Characterization and Mechanism of Formation of Multilength-scale Bulk Heterojunction Structures in Highly Efficient Solution-Processed Small-Molecule Organic Solar Cells. Journal of Physical Chemistry C, 2015, 119, 16507-16517.	3.1	8
93	Graphene Nanosheets/Poly(3,4-ethylenedioxythiophene) Nanotubes Composite Materials for Electrochemical Biosensing Applications. Electrochimica Acta, 2015, 172, 61-70.	5.2	17
94	High-performance graphene/sulphur electrodes for flexible Li-ion batteries using the low-temperature spraying method. Nanoscale, 2015, 7, 8093-8100.	5.6	23
95	Efficient ternary bulk heterojunction solar cells based on small molecules only. Journal of Materials Chemistry A, 2015, 3, 10512-10518.	10.3	45
96	Synergistic Effects of Morphological Control and Complementary Absorption in Efficient All-Small-Molecule Ternary-Blend Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 22542-22550.	8.0	22
97	Enhanced Thermoelectric Performance of PEDOT:PSS Flexible Bulky Papers by Treatment with Secondary Dopants. ACS Applied Materials & Interfaces, 2015, 7, 94-100.	8.0	194
98	Wetâ€milled anatase titanium oxide nanoparticles as a buffer layer for airâ€stable bulk heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1017-1024.	8.1	8
99	Solutionâ€Processed Smallâ€Molecule Bulk Heterojunction Ambipolar Transistors. Advanced Functional Materials, 2014, 24, 2057-2063.	14.9	62
100	Electrocatalytic SiC Nanoparticles/PEDOT:PSS Composite Thin Films as the Counter Electrodes of Dye-Sensitized Solar Cells. ChemElectroChem, 2014, 1, 961-961.	3.4	0
101	Reduced optical loss in mechanically stacked multi-junction organic solar cells exhibiting complementary absorptions. Optics Express, 2014, 22, A481.	3.4	5
102	Gold nanoparticle-decorated graphene oxides for plasmonic-enhanced polymer photovoltaic devices. Nanoscale, 2014, 6, 1573-1579.	5.6	103
103	Study on Oxidation State Dependent Electrocatalytic Ability for I^{â^'}/I₃^{â^'} Redox Reaction of Reduced Graphene Oxides. Electroanalysis, 2014, 26, 147-155.	2.9	7
104	Highly Conductive PEDOT:PSS Treated with Formic Acid for ITO-Free Polymer Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 2292-2299.	8.0	260
105	Plasma-assisted electrochemical exfoliation of graphite for rapid production of graphene sheets. RSC Advances, 2014, 4, 6946.	3.6	49
106	Solution-processable bismuth iodide nanosheets as hole transport layers for organic solar cells. Solar Energy Materials and Solar Cells, 2014, 121, 35-41.	6.2	59
107	Direct conversion of multilayer molybdenum trioxide to nanorods as multifunctional electrodes in lithium-ion batteries. Nanoscale, 2014, 6, 5484-5490.	5.6	55
108	Electrocatalytic SiC Nanoparticles/PEDOT:PSS Composite Thin Films as the Counter Electrodes of Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2014, 1, 1031-1039.	3.4	13

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109	Influence of In doping on the thermoelectric properties of an AgSbTe2 compound with enhanced figure of merit. Journal of Materials Chemistry A, 2014, 2, 2839.	10.3	34
110	Controlled mechanical cleavage of bulk niobium diselenide to nanoscaled sheet, rod, and particle structures for Pt-free dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 11382-11390.	10.3	45
111	A dual-functional additive improves the performance of molecular bulk heterojunction photovoltaic cells. RSC Advances, 2014, 4, 9401.	3.6	22
112	A high performance electrochemical sensor for acetaminophen based on a rGOâ€“PEDOT nanotube composite modified electrode. Journal of Materials Chemistry A, 2014, 2, 7229-7237.	10.3	106
113	Novel metallo-dendrimers containing various Ru core ligands and dendritic thiophene arms for photovoltaic applications. Polymer Chemistry, 2014, 5, 5423-5435.	3.9	12
114	Production of few-layer MoS₂nanosheets through exfoliation of liquid N₂â€“quenched bulk MoS₂. RSC Advances, 2014, 4, 15586-15589.	3.6	29
115	Star-shaped self-assembly of an organic thin film transistor sensor in the presence of Cu2+ and CNâ¯ ions. Organic Electronics, 2014, 15, 582-589.	2.6	10
116	Nucleobase-grafted polycaprolactones as reversible networks in a novel biocompatible material. RSC Advances, 2013, 3, 12598.	3.6	18
117	Effect of molecular weight of additives on the conductivity of PEDOT:PSS and efficiency for ITO-free organic solar cells. Journal of Materials Chemistry A, 2013, 1, 9907.	10.3	235
118	Transparent electrodes based on conducting polymers for display applications. Displays, 2013, 34, 301-314.	3.7	78
119	2-Alkyl-5-thienyl-Substituted Benzo[1,2-b:4,5-bâ€²]dithiophene-Based Donor Molecules for Solution-Processed Organic Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 9494-9500.	8.0	70
120	Interfacial engineering affects the photocatalytic activity of poly(3-hexylthiophene)-modified TiO2. RSC Advances, 2013, 3, 26438.	3.6	16
121	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. Applied Physics Letters, 2013, 103, .	3.3	43
122	Plasma electrolysis allows the facile and efficient production of graphite oxide from recycled graphite. RSC Advances, 2013, 3, 17402.	3.6	14
123	Bioinspired assembly of functional block-copolymer nanotemplates. Soft Matter, 2013, 9, 9608.	2.7	9
124	Organic thin film transistors as selective sensing platforms for Hg2+ ions and the amino acidcysteine. Biosensors and Bioelectronics, 2013, 42, 76-79.	10.1	9
125	Ubiquitous carrier harvesting in organic solar cells with embedded indiumâ€“tin-oxide nano-electrodes. Solar Energy Materials and Solar Cells, 2013, 118, 102-108.	6.2	3
126	rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. Biosensors and Bioelectronics, 2013, 43, 173-179.	10.1	61

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127	A cascade energy band structure enhances the carrier energy in organic vertical-type triodes. Organic Electronics, 2013, 14, 2284-2289.	2.6	6
128	Organic solar cells featuring nanobowl structures. Energy and Environmental Science, 2013, 6, 1192.	30.8	26
129	Solution-processed benzotrithiophene-based donor molecules for efficient bulk heterojunction solar cells. Journal of Materials Chemistry A, 2013, 1, 7767.	10.3	44
130	High quantity and quality few-layers transition metal disulfide nanosheets from wet-milling exfoliation. RSC Advances, 2013, 3, 13193.	3.6	76
131	Solution-processed zinc oxide nanoparticles as interlayer materials for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2013, 108, 156-163.	6.2	89
132	Highly Conductive PEDOT: PSS Electrode Treated with Polyethylene Glycol for ITO-Free Polymer Solar Cells. ECS Transactions, 2013, 58, 49-56.	0.5	21
133	Improve efficiency of white organic light-emitting diodes by using nanosphere arrays in color conversion layers. Optics Express, 2012, 20, 3005.	3.4	10
134	Liquid Lenses and Driving Mechanisms: A Review. Journal of Adhesion Science and Technology, 2012, 26, 1773-1788.	2.6	67
135	Layer-by-Layer Graphene/TCNQ Stacked Films as Conducting Anodes for Organic Solar Cells. ACS Nano, 2012, 6, 5031-5039.	14.6	199
136	A new supramolecular film formed from a silsesquioxane derivative for application in proton exchange membranes. Journal of Materials Chemistry, 2012, 22, 731-734.	6.7	23
137	Efficient organic optoelectronics with multilayer structures. Journal of Materials Chemistry, 2012, 22, 1364-1369.	6.7	4
138	Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. RSC Advances, 2012, 2, 7487.	3.6	35
139	Stable organic thin film transducers for biochemical and label-free sensing under physiological conditions. Journal of Materials Chemistry, 2012, 22, 16506.	6.7	8
140	Dual-color electrochromic films incorporating a periodic polymer nanostructure. RSC Advances, 2012, 2, 4746.	3.6	13
141	Bioinspired hole-conducting polymers for application in organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 18127.	6.7	31
142	New self-assembled supramolecular polymers formed by self-complementary sextuple hydrogen bond motifs. RSC Advances, 2012, 2, 9952.	3.6	16
143	Star Poly(N-isopropylacrylamide) Tethered to Polyhedral Oligomeric Silsesquioxane (POSS) Nanoparticles by a Combination of ATRP and Click Chemistry. Journal of Nanomaterials, 2012, 2012, 1-10.	2.7	12
144	A counter electrode based on hollow spherical particles of polyaniline for a dye-sensitized solar cell. Journal of Materials Chemistry, 2012, 22, 14727.	6.7	46

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145	Wafer-scale MoS2 thin layers prepared by MoO3 sulfurization. Nanoscale, 2012, 4, 6637.	5.6	621
146	Improving the Light Trapping Efficiency of Plasmonic Polymer Solar Cells through Photon Management. Journal of Physical Chemistry C, 2012, 116, 20731-20737.	3.1	122
147	Pâ€117: High Efficient Color Conversion Layers for White Organic Lightâ€Emitting Diodes using Polystyrene Nanosphere Monolayers. Digest of Technical Papers SID International Symposium, 2012, 43, 1499-1502.	0.3	1
148	Synthesis of novel dithienothiopheneâ€and 2,7â€carbazoleâ€based conjugated polymers and Hâ€bonded effects on electrochromic and photovoltaic properties. Journal of Polymer Science Part A, 2012, 50, 5011-5022.	2.3	13
149	Highly conductive PEDOT:PSS electrode by simple film treatment with methanol for ITO-free polymer solar cells. Energy and Environmental Science, 2012, 5, 9662.	30.8	705
150	Optimization of polymer light emitting devices using TiOx electron transport layers and prism sheets. Organic Electronics, 2012, 13, 2667-2670.	2.6	4
151	Controlling vertical alignment of phthalocyanine nanofibers on transparent graphene-coated ITO electrodes for organic field emitters. Journal of Materials Chemistry, 2012, 22, 7837.	6.7	10
152	Synthesis and applications of novel low bandgap star-burst molecules containing a triphenylamine core and dialkylated diketopyrrolopyrrole arms for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 7945.	6.7	86
153	Synthesis and applications of a novel supramolecular polymer network with multiple Hâ€bonded melamine pendants and uracil crosslinkers. Journal of Polymer Science Part A, 2012, 50, 967-975.	2.3	7
154	Converting Graphene Oxide Monolayers into Boron Carbonitride Nanosheets by Substitutional Doping. Small, 2012, 8, 1384-1391.	10.0	101
155	Synthesis of Mainâ€Chain Metalloâ€Copolymers Containing Donor and Acceptor Bisâ€Terpyridyl Ligands for Photovoltaic Applications. Macromolecular Rapid Communications, 2012, 33, 528-533.	3.9	20
156	Synthesis, Photophysical Properties, and Fieldâ€Effect Characteristics of (Ethynylphenyl)benzimidazoleâ€Decorated Anthracene and Perylene Bisimide Derivatives. European Journal of Organic Chemistry, 2012, 2012, 2906-2915.	2.4	17
157	Towards solution processed all-carbon solar cells: a perspective. Energy and Environmental Science, 2012, 5, 7810.	30.8	87
158	Efficient reduction of graphene oxide catalyzed by copper. Physical Chemistry Chemical Physics, 2012, 14, 3083.	2.8	12
159	Charge transporting enhancement of NiO photocathodes for p-type dye-sensitized solar cells. Electrochimica Acta, 2012, 66, 210-215.	5.2	30
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