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	On the mechanism of conductivity enhancement in poly(3,4-ethylenedioxythiophene):poly(styrene) Tj ETQq1 1 0.784314 rgBT /Overlock	3.8	1,161
2	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
3	Transition metal oxides as the buffer layer for polymer photovoltaic cells. Applied Physics Letters, 2006, 88, 073508.	3.3	953
4	Programmable polymer thin film and non-volatile memory device. Nature Materials, 2004, 3, 918-922.	27.5	837
5	Efficient inverted polymer solar cells. Applied Physics Letters, 2006, 88, 253503.	3.3	743
6	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
7	Wafer-scale MoS2 thin layers prepared by MoO3 sulfurization. Nanoscale, 2012, 4, 6637.	5.6	621
8	Electrical Switching and Bistability in Organic/Polymeric Thin Films and Memory Devices. Advanced Functional Materials, 2006, 16, 1001-1014.	14.9	558
9	Organic Donor-Acceptor System Exhibiting Electrical Bistability for Use in Memory Devices. Advanced Materials, 2005, 17, 1440-1443.	21.0	396
10	High-performance organic thin-film transistors with metal oxide/metal bilayer electrode. Applied Physics Letters, 2005, 87, 193508.	3.3	338
11	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
12	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
13	Opening an Electrical Band Gap of Bilayer Graphene with Molecular Doping. ACS Nano, 2011, 5, 7517-7524.	14.6	222
14	A Highly Stable Nonbiofouling Surface with Well-Packed Grafted Zwitterionic Polysulfobetaine for Plasma Protein Repulsion. Langmuir, 2008, 24, 5453-5458.	3.5	213
15	Organic thin-film transistors with nanocomposite dielectric gate insulator. Applied Physics Letters, 2004, 85, 3295-3297.	3.3	206
16	Surfactant-Free Water-Processable Photoconductive All-Carbon Composite. Journal of the American Chemical Society, 2011, 133, 4940-4947.	13.7	200
17	Layer-by-Layer Graphene/TCNQ Stacked Films as Conducting Anodes for Organic Solar Cells. ACS Nano, 2012, 6, 5031-5039.	14.6	199
18	Control of the nanoscale crystallinity and phase separation in polymer solar cells. Applied Physics Letters, 2008, 92, 103306.	3.3	196

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19	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
20	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
21	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe₂ by Hydrohalic Acid Treatment. ACS Nano, 2016, 10, 1454-1461.	14.6	179
22	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. Journal of Materials Chemistry A, 2017, 5, 20843-20850.	10.3	169
23	Electric-field-induced charge transfer between gold nanoparticle and capping 2-naphthalenethiol and organic memory cells. Applied Physics Letters, 2005, 86, 123507.	3.3	153
24	Effective connecting architecture for tandem organic light-emitting devices. Applied Physics Letters, 2005, 87, 241121.	3.3	152
25	Effective Work Function Modulation of Graphene/Carbon Nanotube Composite Films As Transparent Cathodes for Organic Optoelectronics. ACS Nano, 2011, 5, 6262-6271.	14.6	150
26	Modified buffer layers for polymer photovoltaic devices. Applied Physics Letters, 2007, 90, 063509.	3.3	146
27	Hemocompatible Mixed-Charge Copolymer Brushes of Pseudozwitterionic Surfaces Resistant to Nonspecific Plasma Protein Fouling. Langmuir, 2010, 26, 3522-3530.	3.5	137
28	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of Cs₃Sb₂I₉. ACS Applied Materials & Interfaces, 2018, 10, 2566-2573.	8.0	137
29	Planar Heterojunction Perovskite Solar Cells Incorporating Metalâ€“Organic Framework Nanocrystals. Advanced Materials, 2015, 27, 7229-7235.	21.0	134
30	Tuning acceptor energy level for efficient charge collection in copper-phthalocyanine-based organic solar cells. Applied Physics Letters, 2006, 88, 153504.	3.3	132
31	Conducting polymer-based counter electrode for a quantum-dot-sensitized solar cell (QDSSC) with a polysulfide electrolyte. Electrochimica Acta, 2011, 57, 277-284.	5.2	128
32	Efficient photovoltaic energy conversion in tetracene-C60 based heterojunctions. Applied Physics Letters, 2005, 86, 243506.	3.3	124
33	Multiscale molecular simulations of the nanoscale morphologies of P3HT:PCBM blends for bulk heterojunction organic photovoltaic cells. Energy and Environmental Science, 2011, 4, 4124.	30.8	122
34	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
35	Dual-Thermoresponsive Phase Behavior of Blood Compatible Zwitterionic Copolymers Containing Nonionic Poly(N-isopropyl acrylamide). Biomacromolecules, 2009, 10, 2092-2100.	5.4	121
36	Efficient inverted solar cells using TiO₂nanotube arrays. Nanotechnology, 2008, 19, 255202.	2.6	113

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37	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
38	A ternary cascade structure enhances the efficiency of polymer solar cells. Journal of Materials Chemistry, 2010, 20, 2820.	6.7	109
39	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
40	Gold nanoparticle-decorated graphene oxides for plasmonic-enhanced polymer photovoltaic devices. Nanoscale, 2014, 6, 1573-1579.	5.6	103
41	Converting Graphene Oxide Monolayers into Boron Carbonitride Nanosheets by Substitutional Doping. Small, 2012, 8, 1384-1391.	10.0	101
42	Tunable Novel Cyclopentadithiophene-Based Copolymers Containing Various Numbers of Bithiazole and Thienyl Units for Organic Photovoltaic Cell Applications. Macromolecules, 2009, 42, 3681-3693.	4.8	99
43	Organic Memory Device Fabricated Through Solution Processing. Proceedings of the IEEE, 2005, 93, 1287-1296.	21.3	98
44	Electrochemical characterization of the solvent-enhanced conductivity of poly(3,4-ethylenedioxythiophene) and its application in polymer solar cells. Journal of Materials Chemistry, 2009, 19, 3704.	6.7	95
45	Annealing effect of polymer bulk heterojunction solar cells based on polyfluorene and fullerene blend. Organic Electronics, 2009, 10, 27-33.	2.6	91
46	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
47	Towards solution processed all-carbon solar cells: a perspective. Energy and Environmental Science, 2012, 5, 7810.	30.8	87
48	Nanoparticle-induced negative differential resistance and memory effect in polymer bistable light-emitting device. Applied Physics Letters, 2006, 88, 123506.	3.3	86
49	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
50	Bifunctional separator as a polysulfide mediator for highly stable Liâ€“S batteries. Journal of Materials Chemistry A, 2016, 4, 9661-9669.	10.3	86
51	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
52	Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dualâ€Mode Operation. Advanced Functional Materials, 2021, 31, 2008259.	14.9	83
53	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
54	Transparent electrodes based on conducting polymers for display applications. Displays, 2013, 34, 301-314.	3.7	78

#	Article	IF	Citations
55	High quantity and quality few-layers transition metal disulfide nanosheets from wet-milling exfoliation. RSC Advances, 2013, 3, 13193.	3.6	76
56	Lead-Free Antimony-Based Light-Emitting Diodes through the Vaporâ€“Anion-Exchange Method. ACS Applied Materials & Interfaces, 2019, 11, 35088-35094.	8.0	74
57	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. Scientific Reports, 2016, 6, 34319.	3.3	72
58	Perovskite Quantum Dot Lasing in a Gap-Plasmon Nanocavity with Ultralow Threshold. ACS Nano, 2020, 14, 11670-11676.	14.6	71
59	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
60	Integration of organic light-emitting diode and organic transistor via a tandem structure. Applied Physics Letters, 2005, 86, 253503.	3.3	67
61	Synthesis and characterization of a narrowâ€bandgap polymer containing alternating cyclopentadithiophene and diketoâ€pyrroloâ€pyrrole units for solar cell applications. Journal of Polymer Science Part A, 2010, 48, 1669-1675.	2.3	67
62	Liquid Lenses and Driving Mechanisms: A Review. Journal of Adhesion Science and Technology, 2012, 26, 1773-1788.	2.6	67
63	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
64	Synthesis and applications of lowâ€bandgap conjugated polymers containing phenothiazine donor and various benzodiazole acceptors for polymer solar cells. Journal of Polymer Science Part A, 2010, 48, 4823-4834.	2.3	66
65	Polymer Optoelectronic Devices with Highâ€Conductivity Poly(3,4â€Ethylenedioxythiophene) Anodes. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1497-1511.	2.2	65
66	Depth Profiling of Organic Films with X-ray Photoelectron Spectroscopy Using C60+and Ar+Co-Sputtering. Analytical Chemistry, 2008, 80, 3412-3415.	6.5	62
67	The Influence of Charge Trapping on the Electrochromic Performance of Poly(3,4-alkylenedioxythiophene) Derivatives. ACS Applied Materials & Interfaces, 2010, 2, 351-359.	8.0	62
68	Nanographite/polyaniline composite films as the counter electrodes for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 10384.	6.7	62
69	Solutionâ€Processed Smallâ€Molecule Bulk Heterojunction Ambipolar Transistors. Advanced Functional Materials, 2014, 24, 2057-2063.	14.9	62
70	Complementary inverter circuits based on p-SnO2 and n-In2O3 thin film transistors. Applied Physics Letters, 2008, 92, .	3.3	61
71	rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. Biosensors and Bioelectronics, 2013, 43, 173-179.	10.1	61
72	Flexible Fullerene Fieldâ€Effect Transistors Fabricated Through Solution Processing. Advanced Materials, 2009, 21, 4845-4849.	21.0	60

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73	Fabrication of multilayer organic solar cells through a stamping technique. Journal of Materials Chemistry, 2009, 19, 4077.	6.7	59
74	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
75	Facile synthesis of composite tin oxide nanostructures for high-performance planar perovskite solar cells. Nano Energy, 2019, 60, 275-284.	16.0	57
76	Direct conversion of multilayer molybdenum trioxide to nanorods as multifunctional electrodes in lithium-ion batteries. Nanoscale, 2014, 6, 5484-5490.	5.6	55
77	Facile synthesis of carbon/MoO 3 nanocomposites as stable battery anodes. Journal of Power Sources, 2017, 348, 270-280.	7.8	54
78	Synthesis and characterization of novel lowâ€bandgap triphenylamineâ€based conjugated polymers with mainâ€chain donors and pendent acceptors for organic photovoltaics. Journal of Polymer Science Part A, 2010, 48, 5812-5823.	2.3	53
79	Hierarchical supramolecular hydrogels: self-assembly by peptides and photo-controlled release via hostâ€“guest interaction. Chemical Communications, 2017, 53, 12450-12453.	4.1	53
80	Realization of In2O3 thin film transistors through reactive evaporation process. Applied Physics Letters, 2007, 91, .	3.3	52
81	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
82	Anomalous p-channel amorphous oxide transistors based on tin oxide and their complementary circuits. Applied Physics Letters, 2008, 92, .	3.3	49
83	Dibenzo[f,h]thieno[3,4-b] quinoxaline-Based Small Molecules for Efficient Bulk-Heterojunction Solar Cells. Organic Letters, 2009, 11, 4898-4901.	4.6	49
84	Solvent-Annealing-Induced Self-Organization of Poly(3-hexylthiophene), a High-Performance Electrochromic Material. ACS Applied Materials & Interfaces, 2009, 1, 2821-2828.	8.0	49
85	Using a low temperature crystallization process to prepare anatase TiO2 buffer layers for air-stable inverted polymer solar cells. Energy and Environmental Science, 2010, 3, 654.	30.8	49
86	Plasma-assisted electrochemical exfoliation of graphite for rapid production of graphene sheets. RSC Advances, 2014, 4, 6946.	3.6	49
87	Bifacial Perovskite Solar Cells Featuring Semitransparent Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 32635-32642.	8.0	49
88	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
89	Layered perovskite materials: key solutions for highly efficient and stable perovskite solar cells. Reports on Progress in Physics, 2020, 83, 086502.	20.1	48
90	Enhancement of tetracene photovoltaic devices with heat treatment. Applied Physics Letters, 2007, 90, 103501.	3.3	47

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91	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
92	Manipulating location, polarity, and outgrowth length of neuron-like pheochromocytoma (PC-12) cells on patterned organic electrode arrays. Lab on A Chip, 2011, 11, 3674.	6.0	46
93	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
94	Panchromatic heterojunction solar cells for Pb-free all-inorganic antimony based perovskite. Chemical Engineering Journal, 2021, 419, 129424.	12.7	46
95	Effects of nanomorphological changes on the performance of solar cells with blends of poly[9,9â€²-dioctyl-fluorene-co-bithiophene] and a soluble fullerene. Nanotechnology, 2009, 20, 025202.	2.6	45
96	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
97	Efficient ternary bulk heterojunction solar cells based on small molecules only. Journal of Materials Chemistry A, 2015, 3, 10512-10518.	10.3	45
98	Solution-processed benzotrithiophene-based donor molecules for efficient bulk heterojunction solar cells. Journal of Materials Chemistry A, 2013, 1, 7767.	10.3	44
99	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
100	Modulation of Donorâ"Acceptor Interface through Thermal Treatment for Efficient Bilayer Organic Solar Cells. Journal of Physical Chemistry C, 2010, 114, 2764-2768.	3.1	43
101	Efficient bilayer polymer solar cells possessing planar mixed-heterojunction structures. Journal of Materials Chemistry, 2010, 20, 3295.	6.7	43
102	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. Applied Physics Letters, 2013, 103, .	3.3	43
103	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
104	Balanced carrier transport in organic solar cells employing embedded indium-tin-oxide nanoelectrodes. Applied Physics Letters, 2011, 98, .	3.3	41
105	Synthesis and applications of 2,7â€carbazoleâ€based conjugated mainâ€chain copolymers containing electron deficient bithiazole units for organic solar cells. Journal of Polymer Science Part A, 2010, 48, 5479-5489.	2.3	40
106	Monitoring the 3D Nanostructures of Bulk Heterojunction Polymer Solar Cells Using Confocal Lifetime Imaging. Analytical Chemistry, 2010, 82, 1669-1673.	6.5	40
107	Synthesis and applications of main-chain Ru(<scp>ii</scp>) metallo-polymers containing bis-terpyridyl ligands with various benzodiazole cores for solar cells. Journal of Materials Chemistry, 2011, 21, 1196-1205.	6.7	40
108	Synthesis and application of H-Bonded cross-linking polymers containing a conjugated pyridyl H-Acceptor side-chain polymer and various carbazole-based H-Donor dyes bearing symmetrical cyanoacrylic acids for organic solar cells. Polymer, 2010, 51, 6182-6192.	3.8	38

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109	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
110	A lithium passivated MoO₃ nanobelt decorated polypropylene separator for fast-charging long-life Liâ€“S batteries. Nanoscale, 2019, 11, 2892-2900.	5.6	38
111	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
112	Achieving ambipolar vertical organic transistors via nanoscale interface modification. Applied Physics Letters, 2007, 91, 083507.	3.3	37
113	Dependence of channel thickness on the performance of In₂O₃thin film transistors. Journal Physics D: Applied Physics, 2008, 41, 092006.	2.8	37
114	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
115	Organic single-crystal complementary inverter. Applied Physics Letters, 2006, 89, 222111.	3.3	36
116	Label-free detection of DNA using novel organic-based electrolyte-insulator-semiconductor. Biosensors and Bioelectronics, 2010, 25, 2706-2710.	10.1	35
117	Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. RSC Advances, 2012, 2, 7487.	3.6	35
118	High performance dye-sensitized solar cells based on platinum nanoparticle/multi-wall carbon nanotube counter electrodes: The role of annealing. Journal of Power Sources, 2012, 203, 274-281.	7.8	35
119	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
120	Enhanced spectral response in polymer bulk heterojunction solar cells by using active materials with complementary spectra. Solar Energy Materials and Solar Cells, 2010, 94, 22-28.	6.2	34
121	Achieving efficient poly(3,4-ethylenedioxythiophene)-based supercapacitors by controlling the polymerization kinetics. Electrochimica Acta, 2011, 56, 7228-7234.	5.2	34
122	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
123	Efficient molecular solar cells processed from green solvent mixtures. Journal of Materials Chemistry A, 2017, 5, 571-582.	10.3	34
124	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
125	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
126	Bioinspired hole-conducting polymers for application in organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 18127.	6.7	31

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127	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
128	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
129	Charge transporting enhancement of NiO photocathodes for p-type dye-sensitized solar cells. Electrochimica Acta, 2012, 66, 210-215.	5.2	30
130	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
131	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
132	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaicsâ€"A Realâ€time Phaseâ€transition Study. Advanced Materials, 2021, 33, e2006238.	21.0	30
133	Correlation between Exciton Lifetime Distribution and Morphology of Bulk Heterojunction Films after Solvent Annealing. Journal of Physical Chemistry C, 2010, 114, 9062-9069.	3.1	29
134	Production of few-layer MoS₂nanosheets through exfoliation of liquid N₂â€"quenched bulk MoS₂. RSC Advances, 2014, 4, 15586-15589.	3.6	29
135	Highly branched green phosphorescent tris-cyclometalated iridium(III) complexes for solution-processed organic light-emitting diodes. Organic Electronics, 2009, 10, 594-606.	2.6	27
136	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
137	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
138	Enhancement of photovoltaic properties in supramolecular polymer networks featuring a solar cell main-chain polymer H-bonded with conjugated cross-linkers. Polymer, 2012, 53, 1219-1228.	3.8	26
139	Organic solar cells featuring nanobowl structures. Energy and Environmental Science, 2013, 6, 1192.	30.8	26
140	Upconversion Plasmonic Lasing from an Organolead Trihalide Perovskite Nanocrystal with Low Threshold. ACS Photonics, 2021, 8, 335-342.	6.6	26
141	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. Journal of Physical Chemistry C, 2011, 115, 11864-11870.	3.1	25
142	Circular Dichroism Control of Tungsten Diselenide (WSe₂) Atomic Layers with Plasmonic Metamolecules. ACS Applied Materials & Interfaces, 2018, 10, 15996-16004.	8.0	25
143	Nanoscale Correlation between Exciton Dissociation and Carrier Transport in Silole-Containing Cyclopentadithiophene-Based Bulk Heterojunction Films. Journal of Physical Chemistry C, 2011, 115, 2398-2405.	3.1	24
144	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

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145	Natural polymers for disposable organic thin film transistors. Organic Electronics, 2018, 54, 154-160.	2.6	24
146	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
147	Controlled Growth of Nanofiber Network Hole Collection Layers with Pore Structure for Polymerâ^'Fullerene Solar Cells. Journal of Physical Chemistry C, 2008, 112, 19125-19130.	3.1	23
148	Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends. Organic Electronics, 2011, 12, 1755-1762.	2.6	23
149	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
150	High-performance graphene/sulphur electrodes for flexible Li-ion batteries using the low-temperature spraying method. Nanoscale, 2015, 7, 8093-8100.	5.6	23
151	Toward environmentally compatible molecular solar cells processed from halogen-free solvents. Journal of Materials Chemistry A, 2016, 4, 7341-7351.	10.3	23
152	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
153	Synthesis and characterization of a thiadiazole/benzoimidazoleâ€based copolymer for solar cell applications. Journal of Polymer Science Part A, 2010, 48, 4456-4464.	2.3	22
154	Efficiency enhancement of flexible organic light-emitting devices by using antireflection nanopillars. Optics Express, 2011, 19, A295.	3.4	22
155	The effect of solvent induced crystallinity of polymer layer on poly(3-hexylthiophene)/C70 bilayer solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 419-422.	6.2	22
156	A dual-functional additive improves the performance of molecular bulk heterojunction photovoltaic cells. RSC Advances, 2014, 4, 9401.	3.6	22
157	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
158	Pentacene Thin-Film Transistor with PVP-Capped High-k MgO Dielectric Grown by Reactive Evaporation. Electrochemical and Solid-State Letters, 2008, 11, H118.	2.2	21
159	Three-Dimensional Nanoscale Imaging of Polymer Bulk-Heterojunction by Scanning Electrical Potential Microscopy and C₆₀⁺ Cluster Ion Slicing. Analytical Chemistry, 2009, 81, 8936-8941.	6.5	21
160	Flexible polymer solar cells prepared using hard stamps for the direct transfer printing of polymer blends with self-organized interfaces. Journal of Materials Chemistry, 2011, 21, 11378.	6.7	21
161	Highly Conductive PEDOT: PSS Electrode Treated with Polyethylene Glycol for ITO-Free Polymer Solar Cells. ECS Transactions, 2013, 58, 49-56.	0.5	21
162	Understanding and harnessing biomimetic molecular machines for NEMS actuation materials. IEEE Transactions on Automation Science and Engineering, 2006, 3, 254-259.	5.2	20

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163	A Strategic Buffer Layer of Polythiophene Enhances the Efficiency of Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2010, 2, 1281-1285.	8.0	20
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