

# Chih-Wei Chu

## List of Publications by Citations

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254  
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120  
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264  
ext. papers

17,337  
ext. citations

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L-index

#	Paper	IF	Citations
254	On the mechanism of conductivity enhancement in poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) film through solvent treatment. <i>Polymer</i> , <b>2004</b> , 45, 8443-8450	3.9	983
253	Transition metal oxides as the buffer layer for polymer photovoltaic cells. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 073508	3.4	877
252	NANOELECTRONICS. Epitaxial growth of a monolayer WSe <sub>2</sub> -MoS <sub>2</sub> lateral p-n junction with an atomically sharp interface. <i>Science</i> , <b>2015</b> , 349, 524-8	33.3	811
251	Programmable polymer thin film and non-volatile memory device. <i>Nature Materials</i> , <b>2004</b> , 3, 918-22	27	774
250	Efficient inverted polymer solar cells. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 253503	3.4	684
249	Highly conductive PEDOT:PSS electrode by simple film treatment with methanol for ITO-free polymer solar cells. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9662	35.4	589
248	Wafer-scale MoS <sub>2</sub> thin layers prepared by MoO <sub>3</sub> sulfurization. <i>Nanoscale</i> , <b>2012</b> , 4, 6637-41	7.7	538
247	Electrical Switching and Bistability in Organic/Polymeric Thin Films and Memory Devices. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1001-1014	15.6	517
246	Organic Donor-Acceptor System Exhibiting Electrical Bistability for Use in Memory Devices. <i>Advanced Materials</i> , <b>2005</b> , 17, 1440-1443	24	371
245	High-performance organic thin-film transistors with metal oxide/metal bilayer electrode. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 193508	3.4	315
244	Highly conductive PEDOT:PSS treated with formic acid for ITO-free polymer solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2292-9	9.5	212
243	A highly stable nonbiofouling surface with well-packed grafted zwitterionic polysulfobetaine for plasma protein repulsion. <i>Langmuir</i> , <b>2008</b> , 24, 5453-8	4	197
242	Opening an electrical band gap of bilayer graphene with molecular doping. <i>ACS Nano</i> , <b>2011</b> , 5, 7517-24	16.7	191
241	Surfactant-free water-processable photoconductive all-carbon composite. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 4940-7	16.4	191
240	Layer-by-layer graphene/TCNQ stacked films as conducting anodes for organic solar cells. <i>ACS Nano</i> , <b>2012</b> , 6, 5031-9	16.7	187
239	Effect of molecular weight of additives on the conductivity of PEDOT:PSS and efficiency for ITO-free organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9907	13	183
238	Control of the nanoscale crystallinity and phase separation in polymer solar cells. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 103306	3.4	183

237	Organic thin-film transistors with nanocomposite dielectric gate insulator. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3295-3297	3.4	182
236	Enhanced thermoelectric performance of PEDOT:PSS flexible bulky papers by treatment with secondary dopants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 94-100	9.5	162
235	Synergistic improvements in stability and performance of lead iodide perovskite solar cells incorporating salt additives. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1591-1597	13	158
234	Electric-field-induced charge transfer between gold nanoparticle and capping 2-naphthalenethiol and organic memory cells. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 123507	3.4	143
233	Effective work function modulation of graphene/carbon nanotube composite films as transparent cathodes for organic optoelectronics. <i>ACS Nano</i> , <b>2011</b> , 5, 6262-71	16.7	142
232	Effective connecting architecture for tandem organic light-emitting devices. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 241121	3.4	141
231	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe <sub>2</sub> by Hydrohalic Acid Treatment. <i>ACS Nano</i> , <b>2016</b> , 10, 1454-61	16.7	137
230	Modified buffer layers for polymer photovoltaic devices. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 063509	3.4	131
229	Tuning acceptor energy level for efficient charge collection in copper-phthalocyanine-based organic solar cells. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 153504	3.4	125
228	Hemocompatible mixed-charge copolymer brushes of pseudozwitterionic surfaces resistant to nonspecific plasma protein fouling. <i>Langmuir</i> , <b>2010</b> , 26, 3522-30	4	123
227	Solution-processable antimony-based light-absorbing materials beyond lead halide perovskites. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20843-20850	13	118
226	Efficient photovoltaic energy conversion in tetracene-C <sub>60</sub> based heterojunctions. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 243506	3.4	115
225	Conducting polymer-based counter electrode for a quantum-dot-sensitized solar cell (QDSSC) with a polysulfide electrolyte. <i>Electrochimica Acta</i> , <b>2011</b> , 57, 277-284	6.7	111
224	Improving the Light Trapping Efficiency of Plasmonic Polymer Solar Cells through Photon Management. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20731-20737	3.8	110
223	Multiscale molecular simulations of the nanoscale morphologies of P3HT:PCBM blends for bulk heterojunction organic photovoltaic cells. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4124	35.4	109
222	Dual-thermoreponsive phase behavior of blood compatible zwitterionic copolymers containing nonionic poly(N-isopropyl acrylamide). <i>Biomacromolecules</i> , <b>2009</b> , 10, 2092-100	6.9	107
221	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. <i>Advanced Materials</i> , <b>2015</b> , 27, 7229-35	24	105
220	Efficient inverted solar cells using TiO <sub>2</sub> nanotube arrays. <i>Nanotechnology</i> , <b>2008</b> , 19, 255202	3.4	105

219	A ternary cascade structure enhances the efficiency of polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2820		103
218	Tunable Novel Cyclopentadithiophene-Based Copolymers Containing Various Numbers of Bithiazole and Thienyl Units for Organic Photovoltaic Cell Applications. <i>Macromolecules</i> , <b>2009</b> , 42, 3681-3693	5.5	98
217	Gold nanoparticle-decorated graphene oxides for plasmonic-enhanced polymer photovoltaic devices. <i>Nanoscale</i> , <b>2014</b> , 6, 1573-9	7.7	90
216	Organic Memory Device Fabricated Through Solution Processing. <i>Proceedings of the IEEE</i> , <b>2005</b> , 93, 1287-1296	11.9	88
215	Converting graphene oxide monolayers into boron carbonitride nanosheets by substitutional doping. <i>Small</i> , <b>2012</b> , 8, 1384-91	11	87
214	Electrochemical characterization of the solvent-enhanced conductivity of poly(3,4-ethylenedioxythiophene) and its application in polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 3704		87
213	Photovoltaic Performance of Vapor-Assisted Solution-Processed Layer Polymorph of CsSbI. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2566-2573	9.5	84
212	Annealing effect of polymer bulk heterojunction solar cells based on polyfluorene and fullerene blend. <i>Organic Electronics</i> , <b>2009</b> , 10, 27-33	3.5	84
211	A high performance electrochemical sensor for acetaminophen based on a rGO@PEDOT nanotube composite modified electrode. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7229-7237	13	82
210	Synthesis and applications of novel low bandgap star-burst molecules containing a triphenylamine core and dialkylated diketopyrrolopyrrole arms for organic photovoltaics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 7945		81
209	Towards solution processed all-carbon solar cells: a perspective. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7810	35.4	81
208	Solution-processed zinc oxide nanoparticles as interlayer materials for inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 108, 156-163	6.4	81
207	Using an airbrush pen for layer-by-layer growth of continuous perovskite thin films for hybrid solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2359-66	9.5	76
206	Nanoparticle-induced negative differential resistance and memory effect in polymer bistable light-emitting device. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 123506	3.4	76
205	High quantity and quality few-layers transition metal disulfide nanosheets from wet-milling exfoliation. <i>RSC Advances</i> , <b>2013</b> , 3, 13193	3.7	69
204	Modified Separator Performing Dual Physical/Chemical Roles to Inhibit Polysulfide Shuttle Resulting in Ultrastable Li-S Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 12436-12445	16.7	68
203	Bifunctional separator as a polysulfide mediator for highly stable LiS batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9661-9669	13	67
202	Synthesis and characterization of a narrow-bandgap polymer containing alternating cyclopentadithiophene and diketo-pyrrolo-pyrrole units for solar cell applications. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 1669-1675	2.5	66

201	2-Alkyl-5-thienyl-substituted benzo[1,2-b:4,5-b']dithiophene-based donor molecules for solution-processed organic solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9494-500	9.5	65
200	Nucleation and crystal growth control for scalable solution-processed organic-inorganic hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1578-1603	13	64
199	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. <i>Scientific Reports</i> , <b>2016</b> , 6, 34319	4.9	63
198	Depth profiling of organic films with X-ray photoelectron spectroscopy using C60+ and Ar+ co-sputtering. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3412-5	7.8	61
197	Integration of organic light-emitting diode and organic transistor via a tandem structure. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 253503	3.4	61
196	The influence of charge trapping on the electrochromic performance of poly(3,4-alkylenedioxythiophene) derivatives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 351-9	9.5	60
195	Synthesis and applications of low-bandgap conjugated polymers containing phenothiazine donor and various benzodiazole acceptors for polymer solar cells. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 4823-4834	2.5	60
194	Polymer Optoelectronic Devices with High-Conductivity Poly(3,4-Ethylenedioxythiophene) Anodes. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2004</b> , 41, 1497-1511	2.2	60
193	Nanographite/polyaniline composite films as the counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10384		58
192	Fabrication of multilayer organic solar cells through a stamping technique. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 4077		58
191	rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 43, 173-9	11.8	57
190	Flexible fullerene field-effect transistors fabricated through solution processing. <i>Advanced Materials</i> , <b>2009</b> , 21, 4845-9	24	56
189	Transparent electrodes based on conducting polymers for display applications. <i>Displays</i> , <b>2013</b> , 34, 301-314	3.4	54
188	Complementary inverter circuits based on p-SnO <sub>2</sub> and n-In <sub>2</sub> O <sub>3</sub> thin film transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 232103	3.4	54
187	Solution-Processed Small-Molecule Bulk Heterojunction Ambipolar Transistors. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2057-2063	15.6	51
186	Solution-processable bismuth iodide nanosheets as hole transport layers for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 121, 35-41	6.4	50
185	Synthesis and characterization of novel low-bandgap triphenylamine-based conjugated polymers with main-chain donors and pendent acceptors for organic photovoltaics. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 5812-5823	2.5	50
184	Dibenzo[f,h]thieno[3,4-b] quinoxaline-based small molecules for efficient bulk-heterojunction solar cells. <i>Organic Letters</i> , <b>2009</b> , 11, 4898-901	6.2	48

183	Direct conversion of multilayer molybdenum trioxide to nanorods as multifunctional electrodes in lithium-ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 5484-90	7.7	47
182	Liquid Lenses and Driving Mechanisms: A Review. <i>Journal of Adhesion Science and Technology</i> , <b>2012</b> , 26, 1773-1788	2	46
181	Anomalous p-channel amorphous oxide transistors based on tin oxide and their complementary circuits. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 122113	3.4	46
180	Realization of In <sub>2</sub> O <sub>3</sub> thin film transistors through reactive evaporation process. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 132111	3.4	46
179	Preparation of metal halide perovskite solar cells through a liquid droplet assisted method. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9257-9263	13	45
178	Using a low temperature crystallization process to prepare anatase TiO <sub>2</sub> buffer layers for air-stable inverted polymer solar cells. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 654	35.4	45
177	Solvent-annealing-induced self-organization of poly(3-hexylthiophene), a high-performance electrochromic material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2821-8	9.5	45
176	Suppression of surface defects to achieve hysteresis-free inverted perovskite solar cells via quantum dot passivation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5263-5274	13	45
175	A counter electrode based on hollow spherical particles of polyaniline for a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14727		44
174	Facile synthesis of composite tin oxide nanostructures for high-performance planar perovskite solar cells. <i>Nano Energy</i> , <b>2019</b> , 60, 275-284	17.1	43
173	Hierarchical supramolecular hydrogels: self-assembly by peptides and photo-controlled release via host-guest interaction. <i>Chemical Communications</i> , <b>2017</b> , 53, 12450-12453	5.8	43
172	Effects of nanomorphological changes on the performance of solar cells with blends of poly[9,9Qdioctyl-fluorene-co-bithiophene] and a soluble fullerene. <i>Nanotechnology</i> , <b>2009</b> , 20, 025202	3.4	43
171	Enhancement of tetracene photovoltaic devices with heat treatment. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 103501	3.4	43
170	Facile synthesis of carbon/MoO <sub>3</sub> nanocomposites as stable battery anodes. <i>Journal of Power Sources</i> , <b>2017</b> , 348, 270-280	8.9	42
169	Lead-Free Antimony-Based Light-Emitting Diodes through the Vapor-Anion-Exchange Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35088-35094	9.5	42
168	Efficient ternary bulk heterojunction solar cells based on small molecules only. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10512-10518	13	42
167	Solution-processed benzotrithiophene-based donor molecules for efficient bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7767	13	41
166	Efficient bilayer polymer solar cells possessing planar mixed-heterojunction structures. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3295		41

165	Plasma-assisted electrochemical exfoliation of graphite for rapid production of graphene sheets. <i>RSC Advances</i> , <b>2014</b> , 4, 6946	3.7	40
164	Modulation of Donor-Acceptor Interface through Thermal Treatment for Efficient Bilayer Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2764-2768	3.8	40
163	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 043304	3.4	39
162	Balanced carrier transport in organic solar cells employing embedded indium-tin-oxide nanoelectrodes. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 073308	3.4	39
161	Synthesis and applications of main-chain Ru(II) metallo-polymers containing bis-terpyridyl ligands with various benzodiazole cores for solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1196-1205		38
160	Controlled mechanical cleavage of bulk niobium diselenide to nanoscaled sheet, rod, and particle structures for Pt-free dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11382-11390	13	37
159	Monitoring the 3D nanostructures of bulk heterojunction polymer solar cells using confocal lifetime imaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 1669-73	7.8	37
158	Synthesis and applications of 2,7-carbazole-based conjugated main-chain copolymers containing electron deficient bithiazole units for organic solar cells. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 5479-5489	2.5	37
157	A Design Based on a Charge-Transfer Bilayer as an Electron Transport Layer for Improving the Performance and Stability in Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 236-244	3.8	37
156	Role of a hydrophobic scaffold in controlling the crystallization of methylammonium antimony iodide for efficient lead-free perovskite solar cells. <i>Nano Energy</i> , <b>2018</b> , 45, 330-336	17.1	36
155	Manipulating location, polarity, and outgrowth length of neuron-like pheochromocytoma (PC-12) cells on patterned organic electrode arrays. <i>Lab on A Chip</i> , <b>2011</b> , 11, 3674-80	7.2	36
154	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. <i>Polymer</i> , <b>2010</b> , 51, 6182-6192	3.9	36
153	Bifacial Perovskite Solar Cells Featuring Semitransparent Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32635-32642	9.5	34
152	Achieving ambipolar vertical organic transistors via nanoscale interface modification. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 083507	3.4	34
151	Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dual-Mode Operation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008259	15.6	34
150	Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. <i>RSC Advances</i> , <b>2012</b> , 2, 7487	3.7	33
149	Enhanced spectral response in polymer bulk heterojunction solar cells by using active materials with complementary spectra. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 22-28	6.4	33
148	Organic single-crystal complementary inverter. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 222111	3.4	33

147	High performance dye-sensitized solar cells based on platinum nanoparticle/multi-wall carbon nanotube counter electrodes: The role of annealing. <i>Journal of Power Sources</i> , <b>2012</b> , 203, 274-281	8.9	32
146	Achieving efficient poly(3,4-ethylenedioxythiophene)-based supercapacitors by controlling the polymerization kinetics. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7228-7234	6.7	31
145	Label-free detection of DNA using novel organic-based electrolyte-insulator-semiconductor. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 2706-10	11.8	31
144	Dependence of channel thickness on the performance of In <sub>2</sub> O <sub>3</sub> thin film transistors. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 092006	3	31
143	Perovskite Quantum Dot Lasing in a Gap-Plasmon Nanocavity with Ultralow Threshold. <i>ACS Nano</i> , <b>2020</b> , 14, 11670-11676	16.7	31
142	Solution-processable electron transport layer for efficient hybrid perovskite solar cells beyond fullerenes. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 169, 78-85	6.4	30
141	Cost-effective dopant-free star-shaped oligo-aryl amines for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14209-14221	13	30
140	Efficient molecular solar cells processed from green solvent mixtures. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 571-582	13	29
139	Correlation between Exciton Lifetime Distribution and Morphology of Bulk Heterojunction Films after Solvent Annealing. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9062-9069	3.8	29
138	Charge transporting enhancement of NiO photocathodes for p-type dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2012</b> , 66, 210-215	6.7	28
137	Bioinspired hole-conducting polymers for application in organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18127		28
136	New Helicene-Type Hole-Transporting Molecules for High-Performance and Durable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41439-41449	9.5	28
135	Light-Responsive Arylazopyrazole Gelators: From Organic to Aqueous Media and from Supramolecular to Dynamic Covalent Chemistry. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 6131-6140	4.8	26
134	A novel ball milling technique for room temperature processing of TiO <sub>2</sub> nanoparticles employed as the electron transport layer in perovskite solar cells and modules. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7114-7122	13	26
133	Highly branched green phosphorescent tris-cyclometalated iridium(III) complexes for solution-processed organic light-emitting diodes. <i>Organic Electronics</i> , <b>2009</b> , 10, 594-606	3.5	26
132	Enhancement of photovoltaic properties in supramolecular polymer networks featuring a solar cell main-chain polymer H-bonded with conjugated cross-linkers. <i>Polymer</i> , <b>2012</b> , 53, 1219-1228	3.9	25
131	Organic solar cells featuring nanobowl structures. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1192	35.4	25
130	A lithium passivated MoO nanobelt decorated polypropylene separator for fast-charging long-life Li-S batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 2892-2900	7.7	24



129	New bioinspired hole injection/transport materials for highly efficient solution-processed phosphorescent organic light-emitting diodes. <i>Nano Energy</i> , <b>2015</b> , 13, 1-8	17.1	24
128	Nanoscale Correlation between Exciton Dissociation and Carrier Transport in Silole-Containing Cyclopentadithiophene-Based Bulk Heterojunction Films. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 2398-2405 <sup>24</sup>	3.8	24
127	Layered perovskite materials: key solutions for highly efficient and stable perovskite solar cells. <i>Reports on Progress in Physics</i> , <b>2020</b> , 83, 086502	14.4	23
126	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17973-17984	9.5	23
125	Production of few-layer MoS <sub>2</sub> nanosheets through exfoliation of liquid N <sub>2</sub> -quenched bulk MoS <sub>2</sub> . <i>RSC Advances</i> , <b>2014</b> , 4, 15586-15589	3.7	23
124	A new supramolecular film formed from a silsesquioxane derivative for application in proton exchange membranes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 731-734		23
123	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11864-11870	3.8	23
122	Coral-like perovskite nanostructures for enhanced light-harvesting and accelerated charge extraction in perovskite solar cells. <i>Nano Energy</i> , <b>2019</b> , 58, 138-146	17.1	22
121	Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends. <i>Organic Electronics</i> , <b>2011</b> , 12, 1755-1762	3.5	21
120	Three-dimensional nanoscale imaging of polymer bulk-heterojunction by scanning electrical potential microscopy and C60(+) cluster ion slicing. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 8936-41	7.8	21
119	Controlled Growth of Nanofiber Network Hole Collection Layers with Pore Structure for Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19125-19130	3.8	21
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