

# Michael D Mcgehee

## List of Publications by Citations

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285  
ext. papers

55,871  
ext. citations

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avg, IF

7.92  
L-index

#	Paper	IF	Citations
259	Conjugated Polymer Photovoltaic Cells. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 4533-4542	9.6	1940
258	Liquid-crystalline semiconducting polymers with high charge-carrier mobility. <i>Nature Materials</i> , <b>2006</b> , 5, 328-33	27	1836
257	Reversible photo-induced trap formation in mixed-halide hybrid perovskites for photovoltaics. <i>Chemical Science</i> , <b>2015</b> , 6, 613-617	9.4	1266
256	A layered hybrid perovskite solar-cell absorber with enhanced moisture stability. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11232-5	16.4	1217
255	The renaissance of dye-sensitized solar cells. <i>Nature Photonics</i> , <b>2012</b> , 6, 162-169	33.9	1091
254	Optical absorption enhancement in amorphous silicon nanowire and nanocone arrays. <i>Nano Letters</i> , <b>2009</b> , 9, 279-82	11.5	1062
253	Hysteresis and transient behavior in current-voltage measurements of hybrid-perovskite absorber solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3690-3698	35.4	1006
252	23.6%-efficient monolithic perovskite/silicon tandem solar cells with improved stability. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	965
251	Dependence of Regioregular Poly(3-hexylthiophene) Film Morphology and Field-Effect Mobility on Molecular Weight. <i>Macromolecules</i> , <b>2005</b> , 38, 3312-3319	5.5	922
250	Self-limited plasmonic welding of silver nanowire junctions. <i>Nature Materials</i> , <b>2012</b> , 11, 241-9	27	891
249	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , <b>2016</b> , 354, 861-865	33.3	865
248	Organic solar cells with carbon nanotube network electrodes. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 233506	3.4	864
247	Challenges for commercializing perovskite solar cells. <i>Science</i> , <b>2018</b> , 361,	33.3	853
246	Polymer-based solar cells. <i>Materials Today</i> , <b>2007</b> , 10, 28-33	21.8	841
245	Controlling the Field-Effect Mobility of Regioregular Polythiophene by Changing the Molecular Weight. <i>Advanced Materials</i> , <b>2003</b> , 15, 1519-1522	24	841
244	Cesium Lead Halide Perovskites with Improved Stability for Tandem Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 746-51	6.4	788
243	Semiconducting (Conjugated) Polymers as Materials for Solid-State Lasers. <i>Advanced Materials</i> , <b>2000</b> , 12, 1655-1668	24	755

242	Highly oriented crystals at the buried interface in polythiophene thin-film transistors. <i>Nature Materials</i> , <b>2006</b> , 5, 222-228	27	701
241	Understanding Degradation Mechanisms and Improving Stability of Perovskite Photovoltaics. <i>Chemical Reviews</i> , <b>2019</b> , 119, 3418-3451	68.1	663
240	Linear side chains in benzo[1,2-b:4,5-b']dithiophene-thieno[3,4-c]pyrrole-4,6-dione polymers direct self-assembly and solar cell performance. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4656-9	16.4	625
239	Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , <b>2010</b> , 10, 4242-8	11.5	610
238	Efficient charge generation by relaxed charge-transfer states at organic interfaces. <i>Nature Materials</i> , <b>2014</b> , 13, 63-8	27	584
237	A Layered Hybrid Perovskite Solar-Cell Absorber with Enhanced Moisture Stability. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11414-11417	3.6	577
236	Semi-transparent perovskite solar cells for tandems with silicon and CIGS. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 956-963	35.4	553
235	Accounting for interference, scattering, and electrode absorption to make accurate internal quantum efficiency measurements in organic and other thin solar cells. <i>Advanced Materials</i> , <b>2010</b> , 22, 3293-7	24	543
234	Smooth nanowire/polymer composite transparent electrodes. <i>Advanced Materials</i> , <b>2011</b> , 23, 2905-10	24	496
233	Nanowire Solar Cells. <i>Annual Review of Materials Research</i> , <b>2011</b> , 41, 269-295	12.8	493
232	Indacenodithiophene semiconducting polymers for high-performance, air-stable transistors. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11437-9	16.4	463
231	Narrow Bandwidth Luminescence from Blends with Energy Transfer from Semiconducting Conjugated Polymers to Europium Complexes. <i>Advanced Materials</i> , <b>1999</b> , 11, 1349-1354	24	460
230	Enhancing the hole-conductivity of spiro-OMeTAD without oxygen or lithium salts by using spiro(TFSI) <sub>2</sub> In perovskite and dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 10996-1001	16.4	457
229	Opportunities and challenges for tandem solar cells using metal halide perovskite semiconductors. <i>Nature Energy</i> , <b>2018</b> , 3, 828-838	62.3	454
228	Mirrorless lasing from mesostructured waveguides patterned by soft lithography. <i>Science</i> , <b>2000</b> , 287, 465-8	33.3	449
227	Photovoltaic cells made from conjugated polymers infiltrated into mesoporous titania. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3380-3382	3.4	402
226	Light-Induced Phase Segregation in Halide-Perovskite Absorbers. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1199-1205	20.1	398
225	Increased light harvesting in dye-sensitized solar cells with energy relay dyes. <i>Nature Photonics</i> , <b>2009</b> , 3, 406-411	33.9	398

224	Effects of molecular interface modification in hybrid organic-inorganic photovoltaic cells. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 114503	2.5	394
223	The Importance of Fullerene Percolation in the Mixed Regions of Polymer/Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 364-374	21.8	386
222	Molecular-weight-dependent mobilities in regioregular poly(3-hexyl-thiophene) diodes. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 122110	3.4	384
221	Hybrid silicon nanocone-polymer solar cells. <i>Nano Letters</i> , <b>2012</b> , 12, 2971-6	11.5	380
220	Infiltrating Semiconducting Polymers into Self-Assembled Mesoporous Titania Films for Photovoltaic Applications. <i>Advanced Functional Materials</i> , <b>2003</b> , 13, 301-306	15.6	378
219	Transparent and conductive paper from nanocellulose fibers. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 513-518	35.4	375
218	Bimolecular Crystals of Fullerenes in Conjugated Polymers and the Implications of Molecular Mixing for Solar Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1173-1179	15.6	373
217	A 2-terminal perovskite/silicon multijunction solar cell enabled by a silicon tunnel junction. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 121105	3.4	371
216	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , <b>2020</b> , 5, 35-49	62.3	369
215	Triple-halide wide-band gap perovskites with suppressed phase segregation for efficient tandems. <i>Science</i> , <b>2020</b> , 367, 1097-1104	33.3	366
214	High Efficiency Polymer Solar Cells with Long Operating Lifetimes. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 491-494	21.8	365
213	Band Gap Tuning via Lattice Contraction and Octahedral Tilting in Perovskite Materials for Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11117-11124	16.4	353
212	Thermal and Environmental Stability of Semi-Transparent Perovskite Solar Cells for Tandems Enabled by a Solution-Processed Nanoparticle Buffer Layer and Sputtered ITO Electrode. <i>Advanced Materials</i> , <b>2016</b> , 28, 3937-43	24	344
211	Beyond Langevin Recombination: How Equilibrium Between Free Carriers and Charge Transfer States Determines the Open-Circuit Voltage of Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500123	21.8	306
210	Importance of the donor:fullerene intermolecular arrangement for high-efficiency organic photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9608-18	16.4	283
209	Hole transport materials with low glass transition temperatures and high solubility for application in solid-state dye-sensitized solar cells. <i>ACS Nano</i> , <b>2012</b> , 6, 1455-62	16.7	277
208	Effects of optical interference and energy transfer on exciton diffusion length measurements in organic semiconductors. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 034907	2.5	270
207	Amplified spontaneous emission from photopumped films of a conjugated polymer. <i>Physical Review B</i> , <b>1998</b> , 58, 7035-7039	3.3	263

206	Progress in Understanding Degradation Mechanisms and Improving Stability in Organic Photovoltaics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603940	24	248
205	Pore-Filling of Spiro-OMeTAD in Solid-State Dye Sensitized Solar Cells: Quantification, Mechanism, and Consequences for Device Performance. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2431-2436	15.6	243
204	Mechanism of Tin Oxidation and Stabilization by Lead Substitution in Tin Halide Perovskites. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2159-2165	20.1	242
203	Towards enabling stable lead halide perovskite solar cells; interplay between structural, environmental, and thermal stability. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11483-11500	13	241
202	All-back-contact ultra-thin silicon nanocone solar cells with 13.7% power conversion efficiency. <i>Nature Communications</i> , <b>2013</b> , 4, 2950	17.4	235
201	Tuning the properties of polymer bulk heterojunction solar cells by adjusting fullerene size to control intercalation. <i>Nano Letters</i> , <b>2009</b> , 9, 4153-7	11.5	235
200	Chloride in Lead Chloride-Derived Organo-Metal Halides for Perovskite-Absorber Solar Cells. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 7158-7165	9.6	230
199	Design and understanding of encapsulated perovskite solar cells to withstand temperature cycling. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 144-150	35.4	229
198	How high local charge carrier mobility and an energy cascade in a three-phase bulk heterojunction enable >90% quantum efficiency. <i>Advanced Materials</i> , <b>2014</b> , 26, 1923-8	24	226
197	Compositional Engineering for Efficient Wide Band Gap Perovskites with Improved Stability to Photoinduced Phase Segregation. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 428-435	20.1	225
196	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6624-6629	11.5	223
195	Semiconducting polymer distributed feedback lasers. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1536-1538	3.4	220
194	Solution-Processed Organic Solar Cells with Power Conversion Efficiencies of 2.5% using Benzothiadiazole/Imide-Based Acceptors. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5484-5490	9.6	219
193	Polythiophene containing thermally removable solubilizing groups enhances the interface and the performance of polymer-titania hybrid solar cells. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9486-7	16.4	219
192	A quantum-chemical perspective into low optical-gap polymers for highly-efficient organic solar cells. <i>Chemical Science</i> , <b>2011</b> , 2, 1200-1218	9.4	218
191	Color in the corners: ITO-free white OLEDs with angular color stability. <i>Advanced Materials</i> , <b>2013</b> , 25, 4006-13	24	212
190	Enabling Flexible All-Perovskite Tandem Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 2193-2204	27.8	211
189	The mechanism of burn-in loss in a high efficiency polymer solar cell. <i>Advanced Materials</i> , <b>2012</b> , 24, 663-824	8.4	208

188	Plasmonic Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 52-57	21.8	206
187	Doped Mesoporous Silica Fibers: A New Laser Material. <i>Advanced Materials</i> , <b>1999</b> , 11, 632-636	24	201
186	Recombination in Polymer:Fullerene Solar Cells with Open-Circuit Voltages Approaching and Exceeding 1.0 V. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 220-230	21.8	199
185	Charge-Carrier Mobility Requirements for Bulk Heterojunction Solar Cells with High Fill Factor and External Quantum Efficiency >90%. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500577	21.8	186
184	Perovskite solar cells: Continuing to soar. <i>Nature Materials</i> , <b>2014</b> , 13, 845-6	27	183
183	Controlling Solution-Phase Polymer Aggregation with Molecular Weight and Solvent Additives to Optimize Polymer-Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301733	21.8	182
182	The Potential of Multijunction Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2506-2513	20.1	180
181	Mapping Electric Field-Induced Switchable Poling and Structural Degradation in Hybrid Lead Halide Perovskite Thin Films. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500962	21.8	179
180	Controlled conjugated backbone twisting for an increased open-circuit voltage while having a high short-circuit current in poly(hexylthiophene) derivatives. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 5222-32	16.4	177
179	Morphology-Dependent Trap Formation in High Performance Polymer Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 954-962	21.8	176
178	Synthesis, Characterization, and Field-Effect Transistor Performance of Carboxylate-Functionalized Polythiophenes with Increased Air Stability. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4892-4899	9.6	174
177	Enhanced Hole Mobility in Regioregular Polythiophene Infiltrated in Straight Nanopores. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1927-1932	15.6	171
176	Morphological and electrical control of fullerene dimerization determines organic photovoltaic stability. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 247-256	35.4	169
175	Characterization of the polymer energy landscape in polymer:fullerene bulk heterojunctions with pure and mixed phases. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 14078-88	16.4	169
174	Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2398-2406	5.8	157
173	An effective light trapping configuration for thin-film solar cells. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 243503	3.4	153
172	Increased open-circuit voltage of organic solar cells by reduced donor-acceptor interface area. <i>Advanced Materials</i> , <b>2014</b> , 26, 3839-43	24	152
171	Design of low bandgap tin/lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. <i>Nature Energy</i> , <b>2019</b> , 4, 939-947	62.3	152

170	Morphology and Charge Transport in Conjugated Polymers. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , <b>2006</b> , 46, 27-45		150
169	Engineering Stress in Perovskite Solar Cells to Improve Stability. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802139	21.8	148
168	Minimizing Current and Voltage Losses to Reach 25% Efficient Monolithic Two-Terminal Perovskite/Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2173-2180	20.1	143
167	Reducing burn-in voltage loss in polymer solar cells by increasing the polymer crystallinity. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2974-2980	35.4	142
166	Using Resonance Energy Transfer to Improve Exciton Harvesting in Organic/Inorganic Hybrid Photovoltaic Cells. <i>Advanced Materials</i> , <b>2005</b> , 17, 2960-2964	24	142
165	Extracting Light from Polymer Light-Emitting Diodes Using Stamped Bragg Gratings. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 451-456	15.6	139
164	Metamaterial mirrors in optoelectronic devices. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 542-7	28.7	136
163	Ordered Organic-Inorganic Bulk Heterojunction Photovoltaic Cells. <i>MRS Bulletin</i> , <b>2005</b> , 30, 37-40	3.2	136
162	Charge transport in interpenetrating networks of semiconducting and metallic carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 1866-71	11.5	135
161	Incomplete exciton harvesting from fullerenes in bulk heterojunction solar cells. <i>Nano Letters</i> , <b>2009</b> , 9, 4037-41	11.5	134
160	Molecular packing and solar cell performance in blends of polymers with a bisadduct fullerene. <i>Nano Letters</i> , <b>2012</b> , 12, 1566-70	11.5	132
159	Barrier Design to Prevent Metal-Induced Degradation and Improve Thermal Stability in Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1772-1778	20.1	132
158	Modeling low cost hybrid tandem photovoltaics with the potential for efficiencies exceeding 20%. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9173	35.4	131
157	Tin/Lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2450-2459	5.8	127
156	Disorder-Induced Open-Circuit Voltage Losses in Organic Solar Cells During Photoinduced Burn-In. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500111	21.8	127
155	Dynamic Windows with Neutral Color, High Contrast, and Excellent Durability Using Reversible Metal Electrodeposition. <i>Joule</i> , <b>2017</b> , 1, 133-145	27.8	125
154	Transparent electrode requirements for thin film solar cell modules. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 131-134	35.4	125
153	The Effect of Hole Transport Material Pore Filling on Photovoltaic Performance in Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 407-414	21.8	124

152	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. <i>Joule</i> , <b>2020</b> , 4, 1759-1775	27.8	121
151	Impact of Surfaces on Photoinduced Halide Segregation in Mixed-Halide Perovskites. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2694-2700	20.1	117
150	The Role of Electron Affinity in Determining Whether Fullerenes Catalyze or Inhibit Photooxidation of Polymers for Solar Cells. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1351-1357	21.8	116
149	Interpretation of inverted photocurrent transients in organic lead halide perovskite solar cells: proof of the field screening by mobile ions and determination of the space charge layer widths. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 192-204	35.4	113
148	Ring Substituents Mediate the Morphology of PBDTTPD-PCBM Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2299-2306	9.6	113
147	Use of X-ray diffraction, molecular simulations, and spectroscopy to determine the molecular packing in a polymer-fullerene bimolecular crystal. <i>Advanced Materials</i> , <b>2012</b> , 24, 6071-9	24	113
146	Nanostructured Organic-Inorganic Hybrid Solar Cells. <i>MRS Bulletin</i> , <b>2009</b> , 34, 95-100	3.2	111
145	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1225-1232	20.1	108
144	Influence of the hole-transport layer on the initial behavior and lifetime of inverted organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 1382-1388	6.4	107
143	Organic bulk heterojunction solar cells using poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2,-b]thiophene). <i>Applied Physics Letters</i> , <b>2008</b> , 92, 113309-4	3.4	106
142	Long-Range Resonant Energy Transfer for Enhanced Exciton Harvesting for Organic Solar Cells. <i>Advanced Materials</i> , <b>2007</b> , 19, 2961-2966	24	106
141	Nanostructuring titania by embossing with polymer molds made from anodic alumina templates. <i>Nano Letters</i> , <b>2005</b> , 5, 1545-9	11.5	106
140	Mechanical integrity of solution-processed perovskite solar cells. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 9, 353-358	3.9	104
139	Generalized coating route to silica and titania films with orthogonally tilted cylindrical nanopore arrays. <i>Nano Letters</i> , <b>2006</b> , 6, 2567-70	11.5	104
138	High-efficiency tandem perovskite solar cells. <i>MRS Bulletin</i> , <b>2015</b> , 40, 681-686	3.2	102
137	Blastic Lasers: Comparison of gain narrowing with a soluble semiconducting polymer in waveguides and microcavities. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 3191-3193	3.4	101
136	Minimal Effect of the Hole-Transport Material Ionization Potential on the Open-Circuit Voltage of Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 556-560	20.1	100
135	Effect of Al <sub>2</sub> O <sub>3</sub> Recombination Barrier Layers Deposited by Atomic Layer Deposition in Solid-State CdS Quantum Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5584-5592	3.8	100



134	Synthesis of Acenaphthyl and Phenanthrene Based Fused-Aromatic Thienopyrazine Co-Polymers for Photovoltaic and Thin Film Transistor Applications. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3618-3628	9.6	98
133	Dependence of band offset and open-circuit voltage on the interfacial interaction between TiO <sub>2</sub> and carboxylated polythiophenes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3257-61	3.4	96
132	Three-dimensional packing structure and electronic properties of biaxially oriented poly(2,5-bis(3-alkylthiophene-2-yl)thieno[3,2-b]thiophene) films. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6177-90	16.4	93
131	Energy and hole transfer between dyes attached to titania in cosensitized dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10662-7	16.4	92
130	Spray Deposition of Silver Nanowire Electrodes for Semitransparent Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1657-1663	21.8	91
129	Improving the long-term stability of PBDTPD polymer solar cells through material purification aimed at removing organic impurities. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2529	35.4	91
128	High excitation transfer efficiency from energy relay dyes in dye-sensitized solar cells. <i>Nano Letters</i> , <b>2010</b> , 10, 3077-83	11.5	91
127	Thermal Stability of Mixed Cation Metal Halide Perovskites in Air. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5485-5491	9.5	90
126	Factors Governing Intercalation of Fullerenes and Other Small Molecules Between the Side Chains of Semiconducting Polymers Used in Solar Cells. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1208-1217	21.8	90
125	Panchromatic response in solid-state dye-sensitized solar cells containing phosphorescent energy relay dyes. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9277-80	16.4	89
124	Re-evaluating the role of sterics and electronic coupling in determining the open-circuit voltage of organic solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 6076-82	24	85
123	Electron Barrier Formation at the Organic-Back Contact Interface is the First Step in Thermal Degradation of Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3978-3985	15.6	84
122	Effects of self-assembled monolayers on solid-state CdS quantum dot sensitized solar cells. <i>ACS Nano</i> , <b>2011</b> , 5, 1495-504	16.7	84
121	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702116	21.8	84
120	Tuning the Optoelectronic Properties of Vinylene-Linked Donor-Acceptor Copolymers for Organic Photovoltaics. <i>Macromolecules</i> , <b>2010</b> , 43, 6685-6698	5.5	83
119	Semi-transparent polymer solar cells with excellent sub-bandgap transmission for third generation photovoltaics. <i>Advanced Materials</i> , <b>2013</b> , 25, 7020-6	24	82
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