

# Christopher McNeill

## List of Publications by Year in descending order

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262  
papers

15,576  
citations

14655

66  
h-index

20961

115  
g-index

271  
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271  
docs citations

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times ranked

14353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric Constant Engineering of Organic Semiconductors: Effect of Planarity and Conjugation Length. <i>Advanced Functional Materials</i> , 2022, 32, 2104259.	14.9	10
2	Impact of Polymer Molecular Weight on Polymeric Photodiodes. <i>Advanced Optical Materials</i> , 2022, 10, 2101890.	7.3	4
3	Atropisomeric Conjugated Diimides: A Class of Thermally Responsive Organic Semiconductors. , 2022, 4, 363-369.		3
4	Unexpected Enhancement of Molecular n-Doping Efficiency in Polymer Thin Films by a Degradation Product. <i>ACS Applied Energy Materials</i> , 2022, 5, 2421-2429.	5.1	10
5	Incorporation of Electron-Rich Indacenodithiophene Units into the Backbone of 2,6-Azulene-Based Conjugated Polymers for Proton-Responsive Materials and p-Type Polymeric Semiconductors. , 2022, 4, 392-400.		13
6	Resolving the backbone tilt of crystalline poly(3-hexylthiophene) with resonant tender X-ray diffraction. <i>Materials Horizons</i> , 2022, 9, 1649-1657.	12.2	3
7	Reassessing the Significance of Reduced Aggregation and Crystallinity of Naphthalene Diimide-Based Copolymer Acceptors in All-Polymer Solar Cells. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3270-3282.	4.4	3
8	Directional Carrier Polarity Tunability in Ambipolar Organic Transistors Based on Diketopyrrolopyrrole and Bithiophene Imide Dual-Acceptor Semiconducting Polymers. <i>Chemistry of Materials</i> , 2022, 34, 3140-3151.	6.7	10
9	Double-Cable Conjugated Polymers with Rigid Phenyl Linkers for Single-Component Organic Solar Cells. <i>Macromolecules</i> , 2022, 55, 2517-2523.	4.8	11
10	Vinylene Flanked Naphtho[1,2- <i>c</i> :5,6- <i>c'</i> ]bis[1,2,5]thiadiazole Polymer for Low-Crystallinity Ambipolar Transistors. <i>Macromolecules</i> , 2022, 55, 331-337.	4.8	2
11	Achieving High-Efficiency Organic Photovoltaics from a New Completely Amorphous Donor Polymer. <i>Chemistry of Materials</i> , 2022, 34, 5103-5115.	6.7	9
12	Multi-Edge Resonant Tender X-ray Diffraction for Probing the Crystalline Packing of Conjugated Polymers. <i>Macromolecules</i> , 2022, 55, 4733-4741.	4.8	4
13	X-ray diffraction of photovoltaic perovskites: Principles and applications. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	28
14	High-Performance Unipolar n-Type Conjugated Polymers Enabled by Highly Electron-Deficient Building Blocks Containing F and CN Groups. <i>Macromolecules</i> , 2022, 55, 4429-4440.	4.8	16
15	Impact of pendent naphthalenedimide content in random double-cable conjugated polymers on their microstructures and photovoltaic performance. <i>Polymer</i> , 2022, 253, 125020.	3.8	2
16	Length Effect of Alkyl Linkers on the Crystalline Transition in Naphthalene Diimide-Based Double-Cable Conjugated Polymers. <i>Macromolecules</i> , 2022, 55, 5188-5196.	4.8	7
17	Organogels from Diketopyrrolopyrrole Copolymer Ionene/Polythiophene Blends Exhibit Ground-State Single Electron Transfer in the Solid State. <i>Macromolecules</i> , 2022, 55, 4979-4994.	4.8	2
18	Single Atom Selenium Substitution-Mediated p-Type Doping in Polythiophenes toward High-Performance Organic Electronics and Thermoelectrics. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	4

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19	Double-Cable Conjugated Polymers with Pendent Near-Infrared Electron Acceptors for Single-Component Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	28
20	Chain Alignment and Charge Transport Anisotropy in Blade-Coated P(NDI2OD-T2)/PS Blend Films. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5501-5514.	4.4	2
21	Acene Ring Size Optimization in Fused Lactam Polymers Enabling High n-Type Organic Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2021, 143, 260-268.	13.7	68
22	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 1454-1464.	14.6	32
23	Resonant Tender X-ray Diffraction for Disclosing the Molecular Packing of Paracrystalline Conjugated Polymer Films. <i>Journal of the American Chemical Society</i> , 2021, 143, 1409-1415.	13.7	19
24	Influence of synthetic pathway, molecular weight and side chains on properties of indacenodithiophene-benzothiadiazole copolymers made by direct arylation polycondensation. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4597-4606.	5.5	5
25	Rational Design of Donor-Acceptor Based Semiconducting Copolymers with High Dielectric Constants. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6886-6896.	3.1	8
26	Hydrogen Bonds Control Single-Chain Conformation, Crystallinity, and Electron Transport in Isoelectronic Diketopyrrolopyrrole Copolymers. <i>Chemistry of Materials</i> , 2021, 33, 2635-2645.	6.7	23
27	A NIST facility for resonant soft x-ray scattering measuring nano-scale soft matter structure at NSLS-II. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 164001.	1.8	6
28	Charge transport physics of a unique class of rigid-rod conjugated polymers with fused-ring conjugated units linked by double carbon-carbon bonds. <i>Science Advances</i> , 2021, 7, .	10.3	28
29	Anisotropic Resonant X-ray Diffraction of a Conjugated Polymer at the Sulfur K-Edge. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3762-3766.	4.6	8
30	The effect of the dielectric end groups on the positive bias stress stability of N2200 organic field effect transistors. <i>APL Materials</i> , 2021, 9, 041113.	5.1	13
31	Origin of vertical slab orientation in blade-coated layered hybrid perovskite films revealed with in-situ synchrotron X-ray scattering. <i>Nano Energy</i> , 2021, 83, 105818.	16.0	11
32	Enhanced n-Type Doping of a Naphthalene Diimide Based Copolymer by Modification of the Donor Unit. <i>Advanced Electronic Materials</i> , 2021, 7, 2100407.	5.1	10
33	Design of experiment optimization of aligned polymer thermoelectrics doped by ion-exchange. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
34	Revealing the Side-Chain-Dependent Ordering Transition of Highly Crystalline Double-Cable Conjugated Polymers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25499-25507.	13.8	31
35	Revealing the Side-Chain-Dependent Ordering Transition of Highly Crystalline Double-Cable Conjugated Polymers. <i>Angewandte Chemie</i> , 2021, 133, 25703-25711.	2.0	3
36	High performance as-cast P3HT:PCBM devices: understanding the role of molecular weight in high regioregularity P3HT. <i>Materials Advances</i> , 2021, 2, 2045-2054.	5.4	14

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37	Morphology and Charge Transport Properties of P(NDI2OD-T2)/Polystyrene Blends. <i>Macromolecules</i> , 2021, 54, 11134-11146.	4.8	8
38	Efficient and Mechanically Robust Ultraflexible Organic Solar Cells Based on Mixed Acceptors. <i>Joule</i> , 2020, 4, 128-141.	24.0	101
39	Raman Spectroscopy of Formamidinium-Based Lead Halide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2265-2272.	3.1	44
40	Role of Molecular and Interchain Ordering in the Formation of a $\pi$ -Hole-Transporting Layer in Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 3806-3814.	8.0	6
41	Boosted photovoltaic performance of indenothiophene-based molecular acceptor <i>via</i> fusing a thiophene. <i>Journal of Materials Chemistry C</i> , 2020, 8, 630-636.	5.5	5
42	A structural study of p-type A <sup>+</sup> A oligothiophenes: effects of regioregular alkyl sidechains on annealing processes and photovoltaic performances. <i>Journal of Materials Chemistry C</i> , 2020, 8, 567-580.	5.5	4
43	A Structurally Simple but High-Performing Donor-Acceptor Polymer for Field-Effect Transistor Applications. <i>Advanced Electronic Materials</i> , 2020, 6, 2000490.	5.1	10
44	Resolving Different Physical Origins toward Crystallite Imperfection in Semiconducting Polymers: Crystallite Size vs Paracrystallinity. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10529-10538.	2.6	12
45	Polymer Solar Cells: High-Performance All-Polymer Solar Cells Enabled by n-Type Polymers with an Ultranarrow Bandgap Down to 1.28 eV ( <i>Adv. Mater.</i> 30/2020). <i>Advanced Materials</i> , 2020, 32, 2070226.	21.0	2
46	Correlation of Nanomorphology with Structural and Spectroscopic Studies in Organic Solar Cells. <i>ACS Applied Nano Materials</i> , 2020, 3, 11080-11089.	5.0	7
47	Origin of Open-Circuit Voltage Turnover in Organic Solar Cells at Low Temperature. <i>Solar Rrl</i> , 2020, 4, 2000375.	5.8	6
48	Structure engineering of hierarchical layered perovskite interface for efficient and stable wide bandgap photovoltaics. <i>Nano Energy</i> , 2020, 75, 104917.	16.0	44
49	Direct assessment of structural order and evidence for stacking faults in layered hybrid perovskite films from X-ray scattering measurements. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12790-12798.	10.3	13
50	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. <i>Communications Materials</i> , 2020, 1, .	6.9	66
51	Lyotropic Liquid Crystalline Mesophase Governs Interfacial Molecular Orientation of Conjugated Polymer Thin Films. <i>Chemistry of Materials</i> , 2020, 32, 6043-6054.	6.7	17
52	High-Performance All-Polymer Solar Cells Enabled by n-Type Polymers with an Ultranarrow Bandgap Down to 1.28 eV. <i>Advanced Materials</i> , 2020, 32, e2001476.	21.0	103
53	Facile Deposition of Mesoporous PbI <sub>2</sub> through DMF:DMSO Solvent Engineering for Sequentially Deposited Metal Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2020, 3, 3358-3368.	5.1	11
54	Synthesis and Aggregation Behavior of a Glycolated Naphthalene Diimide Bithiophene Copolymer for Application in Low-Level n-Doped Organic Thermoelectrics. <i>Macromolecules</i> , 2020, 53, 5158-5168.	4.8	27

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55	Crucial Role of Fluorine in Fully Alkylated Ladder-Type Carbazole-Based Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9555-9562.	8.0	31
56	Alkali Cation Doping for Improving the Structural Stability of 2D Perovskite in 3D/2D PSCs. <i>Nano Letters</i> , 2020, 20, 1240-1251.	9.1	68
57	Radical Anion Yield, Stability, and Electrical Conductivity of Naphthalene Diimide Copolymers <i>n</i> -Doped with Tertiary Amines. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1954-1963.	4.4	12
58	Fused Cyclopentadithienothiophene Acceptor Enables Ultrahigh Short-Circuit Current and High Efficiency >11% in As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1904956.	14.9	26
59	Influence of alkyl side-chain type and length on the thin film microstructure and OFET performance of naphthalene diimide-based organic semiconductors. <i>Organic Electronics</i> , 2019, 75, 105378.	2.6	33
60	Microstructural control suppresses thermal activation of electron transport at room temperature in polymer transistors. <i>Nature Communications</i> , 2019, 10, 3365.	12.8	30
61	Residual solvent additive enables the nanostructuring of PTB7-Th:PC71BM solar cells via soft lithography. <i>AIP Advances</i> , 2019, 9, .	1.3	3
62	Light induced degradation in mixed-halide perovskites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9326-9334.	5.5	67
63	Selenium-Substituted Diketopyrrolopyrrole Polymer for High-Performance <i>p</i> -Type Organic Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18994-18999.	13.8	136
64	A Family of Heterocyclic Naphthalene Diimide (NDI) Analogues: Comparing Parent Isoquinoline Diimides and Phthalazine Diimides with NDI. <i>ChemPlusChem</i> , 2019, 84, 1638-1642.	2.8	4
65	Selenium-Substituted Diketopyrrolopyrrole Polymer for High-Performance <i>p</i> -Type Organic Thermoelectric Materials. <i>Angewandte Chemie</i> , 2019, 131, 19170-19175.	2.0	18
66	Effect of Backbone Sequence of a Naphthalene Diimide-Based Copolymer on Performance in <i>n</i> -Type Organic Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35185-35192.	8.0	14
67	Investigation of the effect of microstructural changes on thermal transport in semicrystalline polymer semiconductors. <i>APL Materials</i> , 2019, 7, 081118.	5.1	5
68	Incorporation of $\beta$ -butyrolactone (GBL) dramatically lowers the phase transition temperature of formamidinium-based metal halide perovskites. <i>Chemical Communications</i> , 2019, 55, 11743-11746.	4.1	6
69	Oriented Attachment as the Mechanism for Microstructure Evolution in Chloride-Derived Hybrid Perovskite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39930-39939.	8.0	26
70	Enantiopure <i>trans</i> versus <i>cis</i> racemic naphthalene diimide-based <i>n</i> -type organic semiconductors: effect on charge transport. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2659-2665.	5.5	16
71	Detecting the Onset of Molecular Reorganization in Conjugated Polymer Thin Films Using an Easily Accessible Optical Method. <i>Macromolecules</i> , 2019, 52, 4646-4654.	4.8	10
72	Remarkable wettability of highly dispersive rGO ink on multiple substrates independent of deposition techniques. <i>FlatChem</i> , 2019, 16, 100110.	5.6	3

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73	Polaron spin dynamics in high-mobility polymeric semiconductors. <i>Nature Physics</i> , 2019, 15, 814-822.	16.7	40
74	Controlling intermolecular redox-doping of naphthalene diimides. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4466-4474.	5.5	20
75	9,9- $\text{Bifluorenylidene-diketopyrrolopyrrole}$ donors for non-polymeric solution processed solar cells. <i>Synthetic Metals</i> , 2019, 250, 79-87.	3.9	0
76	Cholesteric Aggregation at the Quinoidal-to-Diradical Border Enabled Stable n-Doped Conductor. <i>CheM</i> , 2019, 5, 964-976.	11.7	79
77	Effect of Thionation on the Performance of PNDIT2-Based Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12062-12072.	3.1	4
78	From Homochiral Assembly to Heterochiral Assembly: A Leap in Charge Transport Properties of Binaphthol-Based Axially Chiral Materials. <i>Langmuir</i> , 2019, 35, 6188-6195.	3.5	6
79	Understanding the effect of thionation on naphthalene diimide using first-principles predictions of near-edge x-ray absorption fine structure spectra. <i>Journal of Chemical Physics</i> , 2019, 150, 104302.	3.0	4
80	Solubilizing core modifications on high-performing benzodithiophene-based molecular semiconductors and their influences on film nanostructure and photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6312-6326.	10.3	16
81	Titelbild: Selenium-Substituted Diketopyrrolopyrrole Polymer for High-Performance p-Type Organic Thermoelectric Materials ( <i>Angew. Chem.</i> 52/2019). <i>Angewandte Chemie</i> , 2019, 131, 18893-18893.	2.0	1
82	Tuning Orientational Order of Highly Aggregating P(NDI2OD-T <sub>2</sub> ) by Solvent Vapor Annealing and Blade Coating. <i>Macromolecules</i> , 2019, 52, 43-54.	4.8	54
83	Self-Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803258.	19.5	149
84	Influence of side-chain length and geometry on the thermal expansion behavior and polymorphism of naphthalene diimide-based thin films. <i>Physical Review Materials</i> , 2019, 3, .	2.4	9
85	Nature and Extent of Solution Aggregation Determines the Performance of P(NDI2OD-T <sub>2</sub> ) Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700559.	5.1	64
86	Blade Coating Aligned, High-Performance, Semiconducting-Polymer Transistors. <i>Chemistry of Materials</i> , 2018, 30, 1924-1936.	6.7	63
87	Tuning the Molecular Weight of the Electron Accepting Polymer in All-Polymer Solar Cells: Impact on Morphology and Charge Generation. <i>Advanced Functional Materials</i> , 2018, 28, 1707185.	14.9	65
88	Diffraction X-ray Waveguiding Reveals Orthogonal Crystalline Stratification in Conjugated Polymer Thin Films. <i>Macromolecules</i> , 2018, 51, 2979-2987.	4.8	29
89	Control of Geminate Recombination by the Material Composition and Processing Conditions in Novel Polymer: Nonfullerene Acceptor Photovoltaic Devices. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1253-1260.	2.5	10
90	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. <i>New Journal of Chemistry</i> , 2018, 42, 4017-4028.	2.8	19

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91	Regioregular Polymer Analogous Thionation of Naphthalene Diimide-Bithiophene Copolymers. <i>Macromolecules</i> , 2018, 51, 984-991.	4.8	13
92	Highly Exfoliated MWNT-rGO Ink-Wrapped Polyurethane Foam for Piezoresistive Pressure Sensor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5185-5195.	8.0	208
93	An Alkylated Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. <i>Advanced Materials</i> , 2018, 30, 1705209.	21.0	474
94	On the manifestation of electron-electron interactions in the thermoelectric response of semicrystalline conjugated polymers with low energetic disorder. <i>Communications Physics</i> , 2018, 1, .	5.3	22
95	Conjugated Polyelectrolyte Blend with Polyethyleneimine Ethoxylated for Thickness-Insensitive Electron Injection Layers in Organic Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17318-17326.	8.0	27
96	Design of New Isoindigo-Based Copolymer for Ambipolar Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13774-13782.	8.0	20
97	Highly Efficient and Balanced Charge Transport in Thieno[3,4-c]pyrrole-4,6-dione Copolymers: Dramatic Influence of Thieno[3,2-b]thiophene Comonomer on Alignment and Charge Transport. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7565-7574.	3.1	11
98	Thionation of naphthalene diimide molecules: Thin-film microstructure and transistor performance. <i>Organic Electronics</i> , 2018, 53, 287-295.	2.6	16
99	Incorporation of 2,6-Connected Azulene Units into the Backbone of Conjugated Polymers: Towards High-Performance Organic Optoelectronic Materials. <i>Angewandte Chemie</i> , 2018, 130, 1336-1340.	2.0	40
100	Incorporation of 2,6-Connected Azulene Units into the Backbone of Conjugated Polymers: Towards High-Performance Organic Optoelectronic Materials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1322-1326.	13.8	160
101	Impact of Acceptor Fluorination on the Performance of All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 955-969.	8.0	31
102	Effect of regioregularity on recombination dynamics in inverted bulk heterojunction organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 015501.	2.8	13
103	Negative Correlation between Intermolecular vs Intramolecular Disorder in Bulk-Heterojunction Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44576-44582.	8.0	19
104	Kinetics of thermally activated triplet fusion as a function of polymer chain packing in boosting the efficiency of organic light emitting diodes. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	17
105	Oriented Quasi-2D Perovskites for High Performance Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1804771.	21.0	268
106	Rapid dip-dry MWNT-rGO ink wrapped polyester elastic band (PEB) for piezoresistive strain sensor applications. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	6
107	An optical fibre-based sensor for the detection of gaseous ammonia with methylammonium lead halide perovskite. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6988-6995.	5.5	54
108	Application of an A-A'-A'-A-Containing Acceptor Polymer in Sequentially Deposited All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24046-24054.	8.0	16

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109	Bottom-up growth of n-type monolayer molecular crystals on polymeric substrate for optoelectronic device applications. <i>Nature Communications</i> , 2018, 9, 2933.	12.8	118
110	High Mobility Indium Oxide Electron Transport Layer for an Efficient Charge Extraction and Optimized Nanomorphology in Organic Photovoltaics. <i>Nano Letters</i> , 2018, 18, 5805-5811.	9.1	31
111	<i>N</i> -Alkyl substituted 1 <i>H</i> -benzimidazoles as improved n-type dopants for a naphthalene-diimide based copolymer. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15294-15302.	10.3	28
112	Drastic Improvement of Air Stability in an n-Type Doped Naphthalene-Diimide Polymer by Thionation. <i>ACS Applied Energy Materials</i> , 2018, 1, 4626-4634.	5.1	39
113	Quinoid Resonant Conducting Polymers Achieve High Electrical Conductivity over 4000 S cm <sup>-1</sup> for Thermoelectrics. <i>Advanced Science</i> , 2018, 5, 1800947.	11.2	20
114	Förster Resonance Energy Transfer Drives Higher Efficiency in Ternary Blend Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 4874-4882.	5.1	34
115	Insight into thin-film stacking modes of $\pi$ -expanded quinoidal molecules on charge transport property via side-chain engineering. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1935-1943.	5.5	24
116	Unconventional Molecular Weight Dependence of Charge Transport in the High Mobility n-Type Semiconducting Polymer P(NDI2OD <sub>2</sub> ). <i>Advanced Functional Materials</i> , 2017, 27, 1604744.	14.9	58
117	Influence of Fullerene Acceptor on the Performance, Microstructure, and Photophysics of Low Bandgap Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602197.	19.5	38
118	9-Fluorenone and 9,10-anthraquinone potential fused aromatic building blocks to synthesize electron acceptors for organic solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 2899-2909.	2.8	19
119	Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. <i>Science Advances</i> , 2017, 3, e1601935.	10.3	354
120	Critical Role of Molecular Symmetry for Charge Transport Properties: A Paradigm Learned from Quinoidal Bithieno[3,4- <i>b</i> ]thiophenes. <i>Chemistry of Materials</i> , 2017, 29, 4999-5008.	6.7	24
121	Naphthalene diimide-based small molecule acceptors for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12266-12277.	10.3	41
122	Benzoyl side-chains push the open-circuit voltage of PCDTBT/PCBM solar cells beyond 1ÅV. <i>Organic Electronics</i> , 2017, 49, 142-151.	2.6	7
123	Alternating 5,5-Dimethylcyclopentadiene and Diketopyrrolopyrrole Copolymer Prepared at Room Temperature for High Performance Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2017, 139, 8094-8097.	13.7	49
124	Alkylated Selenophene-Based Ladder-Type Monomers via a Facile Route for High-Performance Thin-Film Transistor Applications. <i>Journal of the American Chemical Society</i> , 2017, 139, 8552-8561.	13.7	105
125	Critical Role of Pendant Group Substitution on the Performance of Efficient All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 804-816.	6.7	41
126	Isolating and quantifying the impact of domain purity on the performance of bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1843-1853.	30.8	31



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127	Dithiopheneindeno[1,2-b]fluorene (TIF) Semiconducting Polymers with Very High Mobility in Field-Effect Transistors. <i>Advanced Materials</i> , 2017, 29, 1702523.	21.0	81
128	Interfacial disorder in efficient polymer solar cells: the impact of donor molecular structure and solvent additives. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24749-24757.	10.3	63
129	Graphene-MWNTs composite coatings with enhanced electrical conductivity. <i>FlatChem</i> , 2017, 4, 33-41.	5.6	14
130	Morphological and Device Evaluation of an Amphiphilic Block Copolymer for Organic Photovoltaic Applications. <i>Macromolecules</i> , 2017, 50, 4942-4951.	4.8	22
131	Fluorination in thieno[3,4-c]pyrrole-4,6-dione copolymers leading to electron transport, high crystallinity and end-on alignment. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7527-7534.	5.5	16
132	Influence of fluorination on the microstructure and performance of diketopyrrolopyrrole-based polymer solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 49-59.	2.1	7
133	Amorphous hole-transporting layer in slot-die coated perovskite solar cells. <i>Nano Energy</i> , 2017, 31, 210-217.	16.0	142
134	Diffraction X-ray waveguiding reveals orthogonal crystalline stratification in conjugated polymer thin films. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, a219-a219.	0.1	0
135	Sensors: A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers ( <i>Adv. Mater.</i> 21/2016). <i>Advanced Materials</i> , 2016, 28, 4163-4163.	21.0	0
136	Chain-Assisted Charge Transport in Semicrystalline Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14539-14548.	3.1	10
137	The Structural Origin of Electron Injection Enhancements with Fulleropyrrolidine Interlayers. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500852.	3.7	10
138	High-Mobility Naphthalene Diimide and Selenophene-Vinylene-Selenophene-Based Conjugated Polymer: n-Channel Organic Field-Effect Transistors and Structure-Property Relationship. <i>Advanced Functional Materials</i> , 2016, 26, 4984-4997.	14.9	75
139	Quick AS NEXAFS Tool (QANT): a program for NEXAFS loading and analysis developed at the Australian Synchrotron. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 374-380.	2.4	110
140	Azido-Functionalized Thiophene as a Versatile Building Block To Cross-Link Low-Bandgap Polymers. <i>Macromolecules</i> , 2016, 49, 3749-3760.	4.8	23
141	High-Mobility Ambipolar Organic Thin-Film Transistor Processed From a Nonchlorinated Solvent. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24325-24330.	8.0	29
142	Impact of Fullerene Mixing Behavior on the Microstructure, Photophysics, and Device Performance of Polymer/Fullerene Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29608-29618.	8.0	24
143	Organic Electronics: Pursuing High-Mobility n-Type Organic Semiconductors by Combination of Molecule-Framework and Side-Chain-Engineering ( <i>Adv. Mater.</i> 38/2016). <i>Advanced Materials</i> , 2016, 28, 8455-8455.	16.0	0
144	Control of Molecular Orientation in Polydiketopyrrolopyrrole Copolymers via Diffusive Noncovalent Interactions. <i>Chemistry of Materials</i> , 2016, 28, 7088-7097.	6.7	47

#	ARTICLE	IF	CITATIONS
145	Coulomb Enhanced Charge Transport in Semicrystalline Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2016, 26, 8011-8022.	14.9	24
146	Pursuing High-Mobility n-Type Organic Semiconductors by Combination of "Molecule" Framework and "Side-Chain" Engineering. <i>Advanced Materials</i> , 2016, 28, 8456-8462.	21.0	93
147	Correlation between Photovoltaic Performance and Interchain Ordering Induced Delocalization of Electronics States in Conjugated Polymer Blends. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20243-20250.	8.0	31
148	Vinylene-Linked Oligothiophene-Difluorobenzothiadiazole Copolymer for Transistor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31154-31165.	8.0	14
149	Efficient Naphthalenediimide-Based Hole Semiconducting Polymer with Vinylene Linkers between Donor and Acceptor Units. <i>Chemistry of Materials</i> , 2016, 28, 8580-8590.	6.7	48
150	Effects of PNDIT2 end groups on aggregation, thin film structure, alignment and electron transport in field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10371-10380.	5.5	39
151	A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers. <i>Advanced Materials</i> , 2016, 28, 4012-4018.	21.0	129
152	Decoupling order and conductivity in doped conducting polymers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19397-19404.	2.8	7
153	NEXAFS spectroscopy of conjugated polymers. <i>European Polymer Journal</i> , 2016, 81, 532-554.	5.4	63
154	EDOT-diketopyrrolopyrrole copolymers for polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3477-3486.	10.3	18
155	Introduction to the Issue on Organic Nanophotonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 3-5.	2.9	4
156	Metal Evaporation-Induced Degradation of Fullerene Acceptors in Polymer/Fullerene Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2247-2254.	8.0	13
157	Interfacial Characteristics of Efficient Bulk Heterojunction Solar Cells Fabricated on MoO <sub>3</sub> Anode Interlayers. <i>Advanced Materials</i> , 2016, 28, 3944-3951.	21.0	21
158	Charge Transport Anisotropy in a Uniaxially Aligned Diketopyrrolopyrrole-Based Copolymer. <i>Advanced Materials</i> , 2015, 27, 7356-7364.	21.0	144
159	Probing Molecular and Crystalline Orientation in Solution-Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5529-5536.	14.9	57
160	In-Depth Understanding of the Morphology-Performance Relationship in Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14026-14034.	8.0	36
161	Influence of Backbone Fluorination in Regioregular Poly(3-alkyl-4-fluoro)thiophenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6866-6879.	13.7	211
162	Increased Exciton Dipole Moment Translates into Charge-Transfer Excitons in Thiophene-Fluorinated Low-Bandgap Polymers for Organic Photovoltaic Applications. <i>Chemistry of Materials</i> , 2015, 27, 7934-7944.	6.7	46

#	ARTICLE	IF	CITATIONS
163	Influence of fluorination in $\pi$ -extended backbone polydiketopyrrolopyrroles on charge carrier mobility and depth-dependent molecular alignment. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8916-8925.	5.5	29
164	A facile approach to alleviate photochemical degradation in high efficiency polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16313-16319.	10.3	38
165	Pronounced Cosolvent Effects in Polymer:Polymer Bulk Heterojunction Solar Cells with Sulfur-Rich Electron-Donating and Imide-Containing Electron-Accepting Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15995-16002.	8.0	22
166	Hole mobility of $3.56 \text{ cm}^2/\text{Vs}$ accomplished using more extended dithienothiophene with furan flanked diketopyrrolopyrrole polymer. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9299-9305.	5.5	47
167	Macroscopic and high-throughput printing of aligned nanostructured polymer semiconductors for MHz large-area electronics. <i>Nature Communications</i> , 2015, 6, 8394.	12.8	280
168	Simultaneous enhancement of charge generation quantum yield and carrier transport in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10799-10812.	5.5	25
169	Enabling high-mobility, ambipolar charge-transport in a DPP-benzotriazole copolymer by side-chain engineering. <i>Chemical Science</i> , 2015, 6, 6949-6960.	7.4	89
170	High-mobility and low-operating voltage organic thin film transistor with epoxy based siloxane binder as the gate dielectric. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	11
171	Unraveling the Morphology of High Efficiency Polymer Solar Cells Based on the Donor Polymer PBDDTT. <i>Advanced Energy Materials</i> , 2015, 5, 1401259.	19.5	100
172	Performance, morphology and photophysics of high open-circuit voltage, low band gap all-polymer solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 332-342.	30.8	115
173	On the Relation between Morphology and FET Mobility of Poly(3-alkylthiophene)s at the Polymer/SiO <sub>2</sub> and Polymer/Air Interface. <i>Advanced Functional Materials</i> , 2014, 24, 1994-2004.	14.9	17
174	Influence of nanoparticle shape on charge transport and recombination in polymer/nanocrystal solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25684-25693.	2.8	52
175	Trap-Induced Losses in Hybrid Photovoltaics. <i>ACS Nano</i> , 2014, 8, 3213-3221.	14.6	84
176	Evolution of phase separation upon annealing and the influence on photocurrent generation in ternary blend organic solar cells. <i>Synthetic Metals</i> , 2014, 189, 63-68.	3.9	14
177	Near-edge X-ray absorption fine-structure spectroscopy of naphthalene diimide-thiophene co-polymers. <i>Journal of Chemical Physics</i> , 2014, 140, 164710.	3.0	27
178	Phase Transitions and Anisotropic Thermal Expansion in High Mobility Core-Expanded Naphthalene Diimide Thin Film Transistors. <i>Advanced Functional Materials</i> , 2014, 24, 7211-7220.	14.9	22
179	Two-Dimensional $\pi$ -Expanded Quinoidal Terthiophenes Terminated with Dicyanomethylenes as n-Type Semiconductors for High-Performance Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2014, 136, 16176-16184.	13.7	147
180	On the packing and the orientation of P(NDI2OD-T2) at low molecular weight. <i>European Polymer Journal</i> , 2014, 61, 172-185.	5.4	14

#	ARTICLE	IF	CITATIONS
181	Synthesis and properties of pyrrolo[3,2-b]pyrrole-1,4-diones (isoDPP) derivatives. Journal of Materials Chemistry C, 2014, 2, 4276.	5.5	13
182	Structure Influence on Charge Transport in Naphthalenediimide-Thiophene Copolymers. Chemistry of Materials, 2014, 26, 6796-6804.	6.7	51
183	Gas-assisted preparation of lead iodide perovskite films consisting of a monolayer of single crystalline grains for high efficiency planar solar cells. Nano Energy, 2014, 10, 10-18.	16.0	504
184	Structure-Function Relationships of High-Electron Mobility Naphthalene Diimide Copolymers Prepared Via Direct Arylation. Chemistry of Materials, 2014, 26, 6233-6240.	6.7	105
185	Influence of Fluorination and Molecular Weight on the Morphology and Performance of PTB7:PC <sub>71</sub> BM Solar Cells. Journal of Physical Chemistry C, 2014, 118, 9918-9929.	3.1	43
186	All-Inkjet-Printed, All-Air-Processed Solar Cells. Advanced Energy Materials, 2014, 4, 1400432.	19.5	135
187	All-Inkjet-Printed, All-Air-Processed Solar Cells. , 2014, 4, 1400432.		1
188	Observation of a Distinct Surface Molecular Orientation in Films of a High Mobility Conjugated Polymer. Journal of the American Chemical Society, 2013, 135, 1092-1101.	13.7	150
189	The impact of tetrahedral capping groups and device processing conditions on the crystal packing, thin film features and OFET hole mobility of 7,14-bis(ethynyl)dibenzo[b,def]chrysenes. Journal of Materials Chemistry C, 2013, 1, 6299.	5.5	17
190	All-polymer solar cells utilizing low band gap polymers as donor and acceptor. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 403-409.	2.1	44
191	Absolute Measurement of Domain Composition and Nanoscale Size Distribution Explains Performance in PTB7:PC <sub>71</sub> BM Solar Cells. Advanced Energy Materials, 2013, 3, 65-74.	19.5	605
192	Soft X-ray characterisation of organic semiconductor films. Journal of Materials Chemistry C, 2013, 1, 187-201.	5.5	75
193	Critical Role of Alkyl Chain Branching of Organic Semiconductors in Enabling Solution-Processed N-Channel Organic Thin-Film Transistors with Mobility of up to 3.50 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . Journal of the American Chemical Society, 2013, 135, 2338-2349.	13.7	379
194	Voltage-dependent photocurrent transients of PTB7:PC70BM solar cells: Experiment and numerical simulation. Journal of Applied Physics, 2013, 114, .	2.5	52
195	Influence of dielectric-dependent interfacial widths on device performance in top-gate P(NDI2OD-T2) field-effect transistors. Applied Physics Letters, 2012, 101, 093308.	3.3	18
196	Morphology of all-polymer solar cells. Energy and Environmental Science, 2012, 5, 5653.	30.8	275
197	Correlating the Efficiency and Nanomorphology of Polymer Blend Solar Cells Utilizing Resonant Soft X-ray Scattering. ACS Nano, 2012, 6, 677-688.	14.6	149
198	Imaging nanostructures in organic semiconductor films with scanning transmission X-ray spectro-microscopy. Synthetic Metals, 2012, 161, 2516-2520.	3.9	16

#	ARTICLE	IF	CITATIONS
199	Nanostructure characterization by a combined x-ray absorption/scanning force microscopy system. <i>Nanotechnology</i> , 2012, 23, 475708.	2.6	30
200	White-light bias external quantum efficiency measurements of standard and inverted P3HT:PCBM photovoltaic cells. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 415101.	2.8	26
201	Organic field-effect transistors and solar cells using novel high electron-affinity conjugated copolymers based on alkylbenzotriazole and benzothiadiazole. <i>Journal of Materials Chemistry</i> , 2012, 22, 4436.	6.7	29
202	Microstructure of Polycrystalline PBTBT Films: Domain Mapping and Structure Formation. <i>ACS Nano</i> , 2012, 6, 1849-1864.	14.6	104
203	Studying Polymer/Fullerene Intermixing and Miscibility in Laterally Patterned Films with X-Ray Spectromicroscopy. <i>Small</i> , 2012, 8, 1920-1927.	10.0	39
204	Excitons and charges at organic semiconductor heterojunctions. <i>Faraday Discussions</i> , 2012, 155, 339-348.	3.2	38
205	Polarized X-ray scattering reveals non-crystalline orientational ordering in organic films. <i>Nature Materials</i> , 2012, 11, 536-543.	27.5	281
206	Highly Efficient Single-Layer Polymer Ambipolar Light-Emitting Field-Effect Transistors. <i>Advanced Materials</i> , 2012, 24, 2728-2734.	21.0	146
207	Indole-substituted nickel dithiolene complexes in electronic and optoelectronic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 15422.	6.7	29
208	Spatially Resolved Spectroscopic Mapping of Photocurrent and Photoluminescence in Polymer Blend Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19364-19370.	3.1	33
209	Fullerene-Dependent Miscibility in the Silole-Containing Copolymer PSBTBT-08. <i>Macromolecules</i> , 2011, 44, 9747-9751.	4.8	59
210	Phase-Dependent Photocurrent Generation in Polymer/Fullerene Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22075-22083.	3.1	33
211	Transient photocurrent measurements of PCDTBT:PC70BM and PCPDTBT:PC70BM Solar Cells: Evidence for charge trapping in efficient polymer/fullerene blends. <i>Journal of Applied Physics</i> , 2011, 109, 074513.	2.5	79
212	The Binding Energy of Charge-Transfer Excitons Localized at Polymeric Semiconductor Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7114-7119.	3.1	131
213	Surface and Bulk Structural Characterization of a High-Mobility Electron-Transporting Polymer. <i>Macromolecules</i> , 2011, 44, 1530-1539.	4.8	105
214	Influence of solution heating on the properties of PEDOT:PSS colloidal solutions and impact on the device performance of polymer solar cells. <i>Organic Electronics</i> , 2011, 12, 1736-1745.	2.6	41
215	Imaging the domain structure of organic semiconductor films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 909-919.	2.1	32
216	Spinodal Decomposition of Blends of Semiconducting and Ferroelectric Polymers. <i>Advanced Functional Materials</i> , 2011, 21, 1887-1894.	14.9	58

#	ARTICLE	IF	CITATIONS
217	Mapping of Domain Orientation and Molecular Order in Polycrystalline Semiconducting Polymer Films with Soft X-ray Microscopy. <i>Advanced Functional Materials</i> , 2011, 21, 1122-1131.	14.9	86
218	Comparison of the Operation of Polymer/Fullerene, Polymer/Polymer, and Polymer/Nanocrystal Solar Cells: A Transient Photocurrent and Photovoltage Study. <i>Advanced Functional Materials</i> , 2011, 21, 1419-1431.	14.9	241
219	Sub-micrometer Charge Modulation Microscopy of a High Mobility Polymeric n-channel Field-effect Transistor. <i>Advanced Materials</i> , 2011, 23, 5086-5090.	21.0	55
220	Polymer Blend Solar Cells Based on a High-Mobility Naphthalenediimide-Based Polymer Acceptor: Device Physics, Photophysics and Morphology. <i>Advanced Energy Materials</i> , 2011, 1, 230-240.	19.5	199
221	Interfaces in organic devices studied with resonant soft x-ray reflectivity. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	27
222	Device physics of inverted all-polymer solar cells. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	35
223	Alkyl-Chain-Length-Independent Hole Mobility via Morphological Control with Poly(3-alkylthiophene) Nanofibers. <i>Advanced Functional Materials</i> , 2010, 20, 792-802.	14.9	89
224	Influence of Annealing and Interfacial Roughness on the Performance of Bilayer Donor/Acceptor Polymer Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2010, 20, 4329-4337.	14.9	105
225	Simultaneous Surface and Bulk Imaging of Polymer Blends with X-ray Spectromicroscopy. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1706-1712.	3.9	48
226	Structure of Phase-Separated Ferroelectric/Semiconducting Polymer Blends for Organic Non-volatile Memories. <i>Small</i> , 2010, 6, 508-512.	10.0	50
227	Influence of Alkyl Side-Chain Length on the Performance of Poly(3-alkylthiophene)/Polyfluorene All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2010, 22, 3389-3398.	6.7	97
228	Nanomorphology of Bulk Heterojunction Photovoltaic Thin Films Probed with Resonant Soft X-ray Scattering. <i>Nano Letters</i> , 2010, 10, 2863-2869.	9.1	182
229	Molecular Miscibility of Polymer-Fullerene Blends. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3160-3166.	4.6	362
230	Photophysics and Photocurrent Generation in Polythiophene/Polyfluorene Copolymer Blends. <i>Advanced Functional Materials</i> , 2009, 19, 3103-3111.	14.9	96
231	Conjugated-Polymer Blends for Optoelectronics. <i>Advanced Materials</i> , 2009, 21, 3840-3850.	21.0	293
232	Charge transport properties and microstructure of polythiophene/polyfluorene blends. <i>Organic Electronics</i> , 2009, 10, 1549-1555.	2.6	24
233	The utility of resonant soft x-ray scattering and reflectivity for the nanoscale characterization of polymers. <i>European Physical Journal: Special Topics</i> , 2009, 167, 121-126.	2.6	34
234	Evolution of Laterally Phase-Separated Polyfluorene Blend Morphology Studied by X-ray Spectromicroscopy. <i>Macromolecules</i> , 2009, 42, 3347-3352.	4.8	43

#	ARTICLE	IF	CITATIONS
235	Drift-diffusion modeling of photocurrent transients in bulk heterojunction solar cells. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	141
236	Photocurrent transients in all-polymer solar cells: Trapping and detrapping effects. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	144
237	Effects of Layer Thickness and Annealing of PEDOT:PSS Layers in Organic Photodetectors. <i>Macromolecules</i> , 2009, 42, 6741-6747.	4.8	253
238	Role of Solvent Trapping Effects in Determining the Structure and Morphology of Ternary Blend Organic Devices. <i>Macromolecules</i> , 2009, 42, 3098-3103.	4.8	42
239	Efficient Polythiophene/Polyfluorene Copolymer Bulk Heterojunction Photovoltaic Devices: Device Physics and Annealing Effects. <i>Advanced Functional Materials</i> , 2008, 18, 2309-2321.	14.9	242
240	Quantum efficiency of ambipolar light-emitting polymer field-effect transistors. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	89
241	A Unified Description of Current-Voltage Characteristics in Organic and Hybrid Photovoltaics under Low Light Intensity. <i>Nano Letters</i> , 2008, 8, 1393-1398.	9.1	92
242	Low-Temperature Control of Nanoscale Morphology for High Performance Polymer Photovoltaics. <i>Nano Letters</i> , 2008, 8, 3942-3947.	9.1	82
243	Evolution of the nanomorphology of photovoltaic polyfluorene blends: sub-100 nm resolution with x-ray spectromicroscopy. <i>Nanotechnology</i> , 2008, 19, 424015.	2.6	47
244	Charge transport dynamics of polymer solar cells under operating conditions: Influence of trap filling. <i>Applied Physics Letters</i> , 2008, 93, 203310.	3.3	41
245	Understanding and Improving Solid-State Polymer/C60-Fullerene Bulk-Heterojunction Solar Cells Using Ternary Porphyrin Blends. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15415-15426.	3.1	72
246	Dual electron donor/electron acceptor character of a conjugated polymer in efficient photovoltaic diodes. <i>Applied Physics Letters</i> , 2007, 90, 193506.	3.3	223
247	Influence of Nanoscale Phase Separation on the Charge Generation Dynamics and Photovoltaic Performance of Conjugated Polymer Blends: Balancing Charge Generation and Separation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 19153-19160.	3.1	209
248	X-ray Microscopy of Photovoltaic Polyfluorene Blends: Relating Nanomorphology to Device Performance. <i>Macromolecules</i> , 2007, 40, 3263-3270.	4.8	102
249	Nanoscale Quantitative Chemical Mapping of Conjugated Polymer Blends. <i>Nano Letters</i> , 2006, 6, 1202-1206.	9.1	112
250	X-ray Spectromicroscopy of Polymer/Fullerene Composites: Quantitative Chemical Mapping. <i>Small</i> , 2006, 2, 1432-1435.	10.0	57
251	Photocurrent pattern formation in polymer/methanofullerene blends imaged by near-field scanning photocurrent microscopy. <i>Journal of Applied Physics</i> , 2006, 99, 033502.	2.5	15
252	Screening for artifacts in near-field scanning photocurrent microscopy images of polymer solar cells. <i>Synthetic Metals</i> , 2005, 153, 85-88.	3.9	8

#	ARTICLE	IF	CITATIONS
253	Enhancement of polymer electronics via surface states on highly doped polymeric anodes. Journal Physics D: Applied Physics, 2004, 37, 165-170.	2.8	6
254	The photovoltaic properties of phenyl-capped thiophene oligomers. Current Applied Physics, 2004, 4, 335-338.	2.4	5
255	Near-Field Scanning Photocurrent Measurements of Polyfluorene Blend Devices: A Directly Correlating Morphology with Current Generation. Nano Letters, 2004, 4, 2503-2507.	9.1	78
256	Photoenhanced injection currents in organic solar cells. Applied Physics Letters, 2004, 85, 1042-1044.	3.3	5
257	Direct Photocurrent Mapping of Organic Solar Cells Using a Near-Field Scanning Optical Microscope. Nano Letters, 2004, 4, 219-223.	9.1	77
258	Direct influence of morphology on current generation in conjugated polymer: methanofullerene solar cells measured by near-field scanning photocurrent microscopy. Synthetic Metals, 2004, 147, 101-104.	3.9	26
259	An iminostilbene functionalized benzimidazole derivative for improved solution n-doping of P(NDI20D-T2). , 0, , .		0
260	Drastic Enhancement of X-ray Scattering Contrast between Amorphous and Crystalline Phases of Poly(3-hexylthiophene) at the Sulfur K-Edge. , 0, , 764-769.		5
261	Light induced quasi-Fermi level splitting in molecular semiconductor alloys. Materials Advances, 0, , .	5.4	2
262	Double-Component Conjugated Polymers with Pendent Near-Infrared Electron Acceptors for Single-Component Organic Solar Cells. Angewandte Chemie, 0, , .	2.0	0