

Martin Heeneey

List of Publications by Year in descending order

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354
papers

29,695
citations

4345

89
h-index

6686

161
g-index

375
all docs

375
docs citations

375
times ranked

20252
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid-crystalline semiconducting polymers with high charge-carrier mobility. <i>Nature Materials</i> , 2006, 5, 328-333.	13.3	2,001
2	n-type Organic Semiconductors in Organic Electronics. <i>Advanced Materials</i> , 2010, 22, 3876-3892.	11.1	1,077
3	Thieno[3,2-b]thiophene-Diketopyrrolopyrrole-Containing Polymers for High-Performance Organic Field-Effect Transistors and Organic Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , 2011, 133, 3272-3275.	6.6	854
4	Charge Carrier Formation in Polythiophene/Fullerene Blend Films Studied by Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 3030-3042.	6.6	602
5	Indacenodithiophene Semiconducting Polymers for High-Performance, Air-Stable Transistors. <i>Journal of the American Chemical Society</i> , 2010, 132, 11437-11439.	6.6	529
6	High-Performance Ambipolar Diketopyrrolopyrrole-Thieno[3,2-b]thiophene Copolymer Field-Effect Transistors with Balanced Hole and Electron Mobilities. <i>Advanced Materials</i> , 2012, 24, 647-652.	11.1	521
7	Influence of blend microstructure on bulk heterojunction organic photovoltaic performance. <i>Chemical Society Reviews</i> , 2011, 40, 1185-1199.	18.7	511
8	Recent Progress in High-Mobility Organic Transistors: A Reality Check. <i>Advanced Materials</i> , 2018, 30, e1801079.	11.1	498
9	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.	11.1	474
10	Molecular origin of high field-effect mobility in an indacenodithiophene-benzothiadiazole copolymer. <i>Nature Communications</i> , 2013, 4, 2238.	5.8	456
11	Fullerene crystallisation as a key driver of charge separation in polymer/fullerene bulk heterojunction solar cells. <i>Chemical Science</i> , 2012, 3, 485-492.	3.7	418
12	Semiconducting Thienothiophene Copolymers: Design, Synthesis, Morphology, and Performance in Thin-Film Organic Transistors. <i>Advanced Materials</i> , 2009, 21, 1091-1109.	11.1	412
13	Bimolecular Crystals of Fullerenes in Conjugated Polymers and the Implications of Molecular Mixing for Solar Cells. <i>Advanced Functional Materials</i> , 2009, 19, 1173-1179.	7.8	392
14	Molecular Packing of High-Mobility Diketo Pyrrolo-Pyrrole Polymer Semiconductors with Branched Alkyl Side Chains. <i>Journal of the American Chemical Society</i> , 2011, 133, 15073-15084.	6.6	381
15	X-ray Scattering Study of Thin Films of Poly(2,5-bis(3-alkylthiophen-2-yl)thieno[3,2-b]thiophene). <i>Journal of the American Chemical Society</i> , 2007, 129, 3226-3237.	6.6	351
16	High-Performance Polymer-Small Molecule Blend Organic Transistors. <i>Advanced Materials</i> , 2009, 21, 1166-1171.	11.1	351
17	2D coherent charge transport in highly ordered conducting polymers doped by solid state diffusion. <i>Nature Materials</i> , 2016, 15, 896-902.	13.3	346
18	Stable Polythiophene Semiconductors Incorporating Thieno[2,3-b]thiophene. <i>Journal of the American Chemical Society</i> , 2005, 127, 1078-1079.	6.6	343

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19	Regioregular poly(3-hexyl)selenophene: a low band gap organic hole transporting polymer. <i>Chemical Communications</i> , 2007, , 5061.	2.2	322
20	Critical Role of Side-Chain Attachment Density on the Order and Device Performance of Polythiophenes. <i>Macromolecules</i> , 2007, 40, 7960-7965.	2.2	321
21	A Selenophene-Based Low-Bandgap Donor-Acceptor Polymer Leading to Fast Ambipolar Logic. <i>Advanced Materials</i> , 2012, 24, 1558-1565.	11.1	313
22	Hybridization of Local Exciton and Charge-Transfer States Reduces Nonradiative Voltage Losses in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 6362-6374.	6.6	307
23	Charge-Transport Anisotropy Due to Grain Boundaries in Directionally Crystallized Thin Films of Regioregular Poly(3-hexylthiophene). <i>Advanced Materials</i> , 2009, 21, 1568-1572.	11.1	305
24	High Carrier Mobility Polythiophene Thin Films: Structure Determination by Experiment and Theory. <i>Advanced Materials</i> , 2007, 19, 833-837.	11.1	276
25	The impact of molecular weight on microstructure and charge transport in semicrystalline polymer semiconductors—poly(3-hexylthiophene), a model study. <i>Progress in Polymer Science</i> , 2013, 38, 1978-1989.	11.8	274
26	Molecular-weight dependence of interchain polaron delocalization and exciton bandwidth in high-mobility conjugated polymers. <i>Physical Review B</i> , 2006, 74, .	1.1	262
27	The Effect of Poly(3-hexylthiophene) Molecular Weight on Charge Transport and the Performance of Polymer:Fullerene Solar Cells. <i>Advanced Functional Materials</i> , 2008, 18, 2373-2380.	7.8	256
28	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. <i>ACS Energy Letters</i> , 2020, 5, 3663-3671.	8.8	253
29	Tuning the Properties of Polymer Bulk Heterojunction Solar Cells by Adjusting Fullerene Size to Control Intercalation. <i>Nano Letters</i> , 2009, 9, 4153-4157.	4.5	243
30	Undoped polythiophene field-effect transistors with mobility of $1\text{cm}^2\text{V}^{-1}\text{s}^{-1}$. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	223
31	Solution-Processed Small Molecule-Polymer Blend Organic Thin-Film Transistors with Hole Mobility Greater than $5\text{cm}^2/\text{Vs}$. <i>Advanced Materials</i> , 2012, 24, 2441-2446.	11.1	219
32	Influence of Backbone Fluorination in Regioregular Poly(3-alkyl-4-fluoro)thiophenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6866-6879.	6.6	211
33	Correlations between Mechanical and Electrical Properties of Polythiophenes. <i>ACS Nano</i> , 2010, 4, 7538-7544.	7.3	210
34	Copper(I) Thiocyanate (CuSCN) Hole-Transport Layers Processed from Aqueous Precursor Solutions and Their Application in Thin-Film Transistors and Highly Efficient Organic and Organometal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1701818.	7.8	208
35	Solution-processed organic transistors based on semiconducting blends. <i>Journal of Materials Chemistry</i> , 2010, 20, 2562.	6.7	201
36	Polymer-Fullerene Miscibility: A Metric for Screening New Materials for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 15869-15879.	6.6	196

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37	Systematic Improvement in Charge Carrier Mobility of Air Stable Triarylamine Copolymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 10814-10815.	6.6	186
38	High Mobility Ambipolar Charge Transport in Polyselenophene Conjugated Polymers. <i>Advanced Materials</i> , 2010, 22, 2371-2375.	11.1	178
39	Toward Stretchable Self-Powered Sensors Based on the Thermoelectric Response of PEDOT:PSS/Polyurethane Blends. <i>Advanced Functional Materials</i> , 2018, 28, 1704285.	7.8	171
40	Transient Optoelectronic Analysis of Charge Carrier Losses in a Selenophene/Fullerene Blend Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5947-5957.	1.5	170
41	Low band gap selenophene-diketopyrrolopyrrole polymers exhibiting high and balanced ambipolar performance in bottom-gate transistors. <i>Chemical Science</i> , 2012, 3, 181-185.	3.7	169
42	Anisotropy of Charge Transport in a Uniaxially Aligned and Chain-Extended, High-Mobility, Conjugated Polymer Semiconductor. <i>Advanced Functional Materials</i> , 2011, 21, 932-940.	7.8	166
43	Small Molecule/Polymer Blend Organic Transistors with Hole Mobility Exceeding $13 \text{ cm}^2/\text{Vs}$. <i>Advanced Materials</i> , 2016, 28, 7791-7798.	11.1	166
44	Beyond the metal-insulator transition in polymer electrolyte gated polymer field-effect transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11834-11837.	3.3	165
45	Indacenodithiophene-benzothiadiazole Copolymers for High Performance Solar Cells or Transistors via Alkyl Chain Optimization. <i>Macromolecules</i> , 2011, 44, 6649-6652.	2.2	165
46	Controlling the Orientation of Terraced Nanoscale Ribbons of a Poly(thiophene) Semiconductor. <i>ACS Nano</i> , 2009, 3, 780-787.	7.3	160
47	On the role of intermixed phases in organic photovoltaic blends. <i>Energy and Environmental Science</i> , 2013, 6, 2756.	15.6	157
48	Thiophene and Selenophene Copolymers Incorporating Fluorinated Phenylene Units in the Main Chain: Synthesis, Characterization, and Application in Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2005, 17, 6567-6578.	3.2	154
49	Studies of Highly Regioregular Poly(hexylselenophene) for Photovoltaic Applications. <i>Advanced Materials</i> , 2007, 19, 4544-4547.	11.1	154
50	Influence of Molecular Weight Distribution on the Gelation of P3HT and Its Impact on the Photovoltaic Performance. <i>Macromolecules</i> , 2009, 42, 4661-4666.	2.2	153
51	Doping Approaches for Organic Semiconductors. <i>Chemical Reviews</i> , 2022, 122, 4420-4492.	23.0	153
52	Electrochemical Doping in Electrolyte-Gated Polymer Transistors. <i>Journal of the American Chemical Society</i> , 2007, 129, 14367-14371.	6.6	145
53	Fused Dithienogermolodithiophene Low Band Gap Polymers for High-Performance Organic Solar Cells without Processing Additives. <i>Journal of the American Chemical Society</i> , 2013, 135, 2040-2043.	6.6	145
54	Activated Singlet Exciton Fission in a Semiconducting Polymer. <i>Journal of the American Chemical Society</i> , 2013, 135, 12747-12754.	6.6	143

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55	Significant dependence of morphology and charge carrier mobility on substrate surface chemistry in high performance polythiophene semiconductor films. <i>Applied Physics Letters</i> , 2007, 90, 062117.	1.5	136
56	Room-Temperature Fabrication of Ultrathin Oxide Gate Dielectrics for Low-Voltage Operation of Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2011, 23, 971-974.	11.1	136
57	Comparison of Methods for Determining the Mechanical Properties of Semiconducting Polymer Films for Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8855-8862.	4.0	136
58	High-Efficiency Organic Photovoltaic Cells Based on the Solution-Processable Hole Transporting Interlayer Copper Thiocyanate (CuSCN) as a Replacement for PEDOT:PSS. <i>Advanced Energy Materials</i> , 2015, 5, 1401529.	10.2	133
59	Sequential Deposition of Organic Films with Eco-Compatible Solvents Improves Performance and Enables Over 12% Efficiency Nonfullerene Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1808153.	11.1	132
60	Remarkable Enhancement of the Hole Mobility in Several Organic Small-Molecules, Polymers, and Small-Molecule:Polymer Blend Transistors by Simple Admixing of the Lewis Acid p-Dopant B(C ₆ F ₅) ₃ . <i>Advanced Science</i> , 2018, 5, 1700290.	5.6	131
61	Acceptor Energy Level Control of Charge Photogeneration in Organic Donor/Acceptor Blends. <i>Journal of the American Chemical Society</i> , 2010, 132, 12919-12926.	6.6	128
62	Silindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors. <i>Chemistry of Materials</i> , 2011, 23, 768-770.	3.2	126
63	Use of X-Ray Diffraction, Molecular Simulations, and Spectroscopy to Determine the Molecular Packing in a Polymer-Fullerene Bimolecular Crystal. <i>Advanced Materials</i> , 2012, 24, 6071-6079.	11.1	126
64	High Mobility Field-Effect Transistors with Versatile Processing from a Small-Molecule Organic Semiconductor. <i>Advanced Materials</i> , 2013, 25, 4352-4357.	11.1	126
65	Air-Stable and High-Mobility n-Channel Organic Transistors Based on Small-Molecule/Polymer Semiconducting Blends. <i>Advanced Materials</i> , 2012, 24, 3205-3211.	11.1	121
66	The Effect of Interfacial Roughness on the Thin Film Morphology and Charge Transport of High-Performance Polythiophenes. <i>Advanced Functional Materials</i> , 2008, 18, 742-750.	7.8	120
67	The Influence of Film Morphology in High-Mobility Small-Molecule:Polymer Blend Organic Transistors. <i>Advanced Functional Materials</i> , 2010, 20, 2330-2337.	7.8	120
68	A Novel Alkylated Indacenodithieno[3,2-b]thiophene-Based Polymer for High-Performance Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 3922-3927.	11.1	117
69	Influence of Molecular Design on the Field-Effect Transistor Characteristics of Terthiophene Polymers. <i>Chemistry of Materials</i> , 2005, 17, 1381-1385.	3.2	116
70	Effect of Systematically Tuning Conjugated Donor Polymer Lowest Unoccupied Molecular Orbital Levels via Cyano Substitution on Organic Photovoltaic Device Performance. <i>Chemistry of Materials</i> , 2016, 28, 5110-5120.	3.2	115
71	Molecular Basis of Mesophase Ordering in a Thiophene-Based Copolymer. <i>Macromolecules</i> , 2008, 41, 5709-5715.	2.2	114
72	Microwave-assisted synthesis of polythiophenes via the Stille coupling. <i>Synthetic Metals</i> , 2005, 148, 195-198.	2.1	113

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73	Singlet Exciton Lifetimes in Conjugated Polymer Films for Organic Solar Cells. <i>Polymers</i> , 2016, 8, 14.	2.0	111
74	Organic bulk heterojunction solar cells using poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene). <i>Applied Physics Letters</i> , 2008, 92, .	1.5	110
75	Doping of Conjugated Polythiophenes with Alkyl Silanes. <i>Advanced Functional Materials</i> , 2009, 19, 1906-1911.	7.8	107
76	Polaron Localization at Interfaces in High-Mobility Microcrystalline Conjugated Polymers. <i>Advanced Materials</i> , 2009, 21, 3759-3763.	11.1	105
77	Thermal and Structural Characteristics of Oligo(3-hexylthiophene)s (3HT), $n = 4-36$. <i>Journal of the American Chemical Society</i> , 2013, 135, 13699-13709.	6.6	105
78	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.	6.6	105
79	Role of Molecular Weight Distribution on Charge Transport in Semiconducting Polymers. <i>Macromolecules</i> , 2014, 47, 7151-7157.	2.2	102
80	Highly Efficient Patterning of Organic Single-Crystal Transistors from the Solution Phase. <i>Advanced Materials</i> , 2008, 20, 4044-4048.	11.1	100
81	Polymerisable liquid crystalline organic semiconductors and their fabrication in organic field effect transistors. <i>Journal of Materials Chemistry</i> , 2003, 13, 2436.	6.7	99
82	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> , 2012, 2, 1208-1217.	10.2	97
83	Influence of Side-Chain Regiochemistry on the Transistor Performance of High-Mobility, All-Donor Polymers. <i>Journal of the American Chemical Society</i> , 2014, 136, 15154-15157.	6.6	97
84	Lamination Method for the Study of Interfaces in Polymeric Thin Film Transistors. <i>Journal of the American Chemical Society</i> , 2004, 126, 13928-13929.	6.6	96
85	Effect of the End Group of Regioregular Poly(3-hexylthiophene) Polymers on the Performance of Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8137-8141.	1.5	96
86	Ambipolar Field-Effect Transistors Based on Solution-Processable Blends of Thieno[2,3-b]thiophene Terthiophene Polymer and Methanofullerenes. <i>Advanced Materials</i> , 2005, 17, 2608-2612.	11.1	93
87	Understanding the Influence of Morphology on Poly(3-hexylselenothiophene):PCBM Solar Cells. <i>Macromolecules</i> , 2010, 43, 1169-1174.	2.2	92
88	Photovoltaic and field effect transistor performance of selenophene and thiophene diketopyrrolopyrrole co-polymers with dithienothiophene. <i>Journal of Materials Chemistry</i> , 2012, 22, 12817.	6.7	92
89	A low band gap co-polymer of dithienogermole and 2,1,3-benzothiadiazole by Suzuki polycondensation and its application in transistor and photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 16257.	6.7	91
90	Influence of Phase Segregation on Recombination Dynamics in Organic Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 1687-1692.	7.8	90

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91	Natures of optical absorption transitions and excitation energy dependent photostability of diketopyrrolopyrrole (DPP)-based photovoltaic copolymers. <i>Energy and Environmental Science</i> , 2015, 8, 3222-3232.	15.6	90
92	Polyterthiophenes as Donors for Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2007, 17, 1371-1376.	7.8	89
93	Enabling high-mobility, ambipolar charge-transport in a DPP-benzotriazole copolymer by side-chain engineering. <i>Chemical Science</i> , 2015, 6, 6949-6960.	3.7	89
94	Cyano substituted benzothiadiazole: a novel acceptor inducing n-type behaviour in conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 265-275.	2.7	89
95	“Fibonacci” Route to Regioregular Oligo(3-hexylthiophene)s. <i>Journal of the American Chemical Society</i> , 2013, 135, 13695-13698.	6.6	86
96	Relative importance of polaron activation and disorder on charge transport in high-mobility conjugated polymer field-effect transistors. <i>Physical Review B</i> , 2007, 76, .	1.1	84
97	Influence of the heteroatom on the optoelectronic properties and transistor performance of soluble thiophene-, selenophene- and tellurophene-vinylene copolymers. <i>Chemical Science</i> , 2016, 7, 1093-1099.	3.7	84
98	Tetradiketone macrocycle for divalent aluminium ion batteries. <i>Nature Communications</i> , 2021, 12, 2386.	5.8	84
99	Continuous Synthesis of Device-Grade Semiconducting Polymers in Droplet-Based Microreactors. <i>Advanced Functional Materials</i> , 2013, 23, 2123-2129.	7.8	83
100	Alkylidene Fluorene Liquid Crystalline Semiconducting Polymers for Organic Field Effect Transistor Devices. <i>Macromolecules</i> , 2004, 37, 5250-5256.	2.2	80
101	Structural characterisation of a red phthalocyanine. <i>Chemical Communications</i> , 2003, , 2064.	2.2	78
102	Effects of Confinement on Microstructure and Charge Transport in High Performance Semicrystalline Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2013, 23, 2091-2098.	7.8	77
103	Domain Compositions and Fullerene Aggregation Govern Charge Photogeneration in Polymer/Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400116.	10.2	77
104	Carborane-Induced Excimer Emission of Severely Twisted Bis-Carboranyl Chrysene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10640-10645.	7.2	77
105	Solid-State Supramolecular Organization of Polythiophene Chains Containing Thienothiophene Units. <i>Advanced Materials</i> , 2009, 21, 1193-1198.	11.1	76
106	Microstructural Origin of High Mobility in High-Performance Poly(thienoethiophene) Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 697-701.	11.1	75
107	A Close Look at Charge Generation in Polymer:Fullerene Blends with Microstructure Control. <i>Journal of the American Chemical Society</i> , 2015, 137, 2908-2918.	6.6	75
108	Entanglements in marginal solutions: a means of tuning pre-aggregation of conjugated polymers with positive implications for charge transport. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7394-7404.	2.7	75

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109	High-performance organic integrated circuits based on solution processable polymer-small molecule blends. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	74
110	The phase behavior of a polymer–fullerene bulk heterojunction system that contains bimolecular crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 499-503.	2.4	71
111	Material Crystallinity as a Determinant of Triplet Dynamics and Oxygen Quenching in Donor Polymers for Organic Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2014, 24, 1474-1482.	7.8	71
112	Effects of a Heavy Atom on Molecular Order and Morphology in Conjugated Polymer:Fullerene Photovoltaic Blend Thin Films and Devices. <i>ACS Nano</i> , 2012, 6, 9646-9656.	7.3	70
113	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 3051.	15.6	68
114	Influence of Ion Induced Local Coulomb Field and Polarity on Charge Generation and Efficiency in Poly(3-hexylthiophene)-Based Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 2571-2579.	7.8	68
115	Thiophene fluorination to enhance photovoltaic performance in low band gap donor–acceptor polymers. <i>Chemical Communications</i> , 2012, 48, 11130.	2.2	68
116	In-Plane Liquid Crystalline Texture of High-Performance Thienothiophene Copolymer Thin Films. <i>Advanced Functional Materials</i> , 2010, 20, 4098-4106.	7.8	67
117	Photoinduced Carrier Generation and Decay Dynamics in Intercalated and Non-intercalated Polymer:Fullerene Bulk Heterojunctions. <i>ACS Nano</i> , 2011, 5, 5635-5646.	7.3	67
118	Alkyl Chain Extension as a Route to Novel Thieno[3,2- <i>b</i>]thiophene Flanked Diketopyrrolopyrrole Polymers for Use in Organic Solar Cells and Field Effect Transistors. <i>Macromolecules</i> , 2013, 46, 5961-5967.	2.2	67
119	Effects of the surface roughness of plastic-compatible inorganic dielectrics on polymeric thin film transistors. <i>Applied Physics Letters</i> , 2007, 90, 233508.	1.5	66
120	Thioalkyl-Substituted Benzothiadiazole Acceptors: Copolymerization with Carbazole Affords Polymers with Large Stokes Shifts and High Solar Cell Voltages. <i>Macromolecules</i> , 2014, 47, 2279-2288.	2.2	66
121	High mobility p-channel organic field effect transistors on flexible substrates using a polymer-small molecule blend. <i>Synthetic Metals</i> , 2009, 159, 2365-2367.	2.1	65
122	Tail state limited photocurrent collection of thick photoactive layers in organic solar cells. <i>Nature Communications</i> , 2019, 10, 5159.	5.8	65
123	Charge photogeneration in polythiophene–perylene diimide blend films. <i>Chemical Communications</i> , 2009, , 5445.	2.2	64
124	Addition of the Lewis Acid Zn(C ₆ F ₅) ₂ Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm ² V ⁻¹ s ⁻¹ . <i>Advanced Materials</i> , 2019, 31, e1900871.	11.1	64
125	Electronic Structure and Charge-Transport Properties of Polythiophene Chains Containing Thienothiophene Units: A Joint Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2007, 19, 4949-4956.	3.2	63
126	The Impact of Molecular p-Doping on Charge Transport in High-Mobility Small-Molecule/Polymer Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700464.	2.6	63

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127	Importance of Spin-Orbit Interaction for the Electron Spin Relaxation in Organic Semiconductors. Physical Review Letters, 2013, 110, 216602.	2.9	62
128	Hexyl-substituted oligothiophenes with a central tetrafluorophenylene unit: crystal engineering of planar structures for p-type organic semiconductors. Chemical Communications, 2005, , 1465.	2.2	61
129	Local Charge Trapping in Conjugated Polymers Resolved by Scanning Kelvin Probe Microscopy. Physical Review Letters, 2009, 103, 256803.	2.9	61
130	Phthalocyaninohydroannulenes. Chemistry - A European Journal, 2000, 6, 3958-3967.	1.7	59
131	Influence of the Electron Deficient Co ^{II} Monomer on the Optoelectronic Properties and Photovoltaic Performance of Dithienogermole ^{II} -based Co ^{II} Polymers. Advanced Functional Materials, 2014, 24, 678-687.	7.8	59
132	Using Molecular Design to Increase Hole Transport: Backbone Fluorination in the Benchmark Material		

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145	Radical ion pair mediated triplet formation in polymer–fullerene blend films. <i>Chemical Communications</i> , 2006, , 3939-3941.	2.2	51
146	Structural and Electronic Effects of 1,3,4-Thiadiazole Units Incorporated into Polythiophene Chains. <i>Macromolecules</i> , 2007, 40, 6585-6593.	2.2	50
147	Elucidating the role of hyperfine interactions on organic magnetoresistance using deuterated aluminium tris(8-hydroxyquinoline). <i>Physical Review B</i> , 2009, 80, .	1.1	50
148	An alignable fluorene thienothiophene copolymer with deep-blue electroluminescent emission at 410Ånm. <i>Chemical Communications</i> , 2008, , 1079.	2.2	49
149	Synthesis, Characterization, and Field Effect Transistor Properties of Regioregular Poly(3-alkyl-2,5-selenylenevinylene). <i>Macromolecules</i> , 2011, 44, 5194-5199.	2.2	49
150	Conjugated Copolymers of Vinylene Flanked Naphthalene Diimide. <i>Macromolecules</i> , 2016, 49, 6384-6393.	2.2	49
151	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.	6.6	49
152	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. <i>Nature Communications</i> , 2019, 10, 4475.	5.8	49
153	A Systematic Approach to the Design Optimization of Light–Absorbing Indenofluorene Polymers for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2012, 2, 260-265.	10.2	48
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293

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