

Paul W M Blom

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173
papers

14,999
citations

56
h-index

121
g-index

175
ext. papers

16,377
ext. citations

8.5
avg, IF

6.73
L-index

#	Paper	IF	Citations
173	Role of Linker Functionality in Polymers Exhibiting Main-Chain Thermally Activated Delayed Fluorescence.. <i>Advanced Science</i> , 2022 , e2200056	13.6	0
172	Quantifying Exciton Annihilation Effects in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Optical Materials</i> , 2022 , 10, 2101784	8.1	1
171	Organic neuromorphic electronics for sensorimotor integration and learning in robotics. <i>Science Advances</i> , 2021 , 7, eabl5068	14.3	11
170	Efficiency of Polymer Light-Emitting Diodes: A Perspective. <i>Advanced Materials</i> , 2021 , e2108887	24	3
169	Optical Outcoupling Efficiency of Organic Light-Emitting Diodes with a Broad Recombination Profile. <i>Advanced Optical Materials</i> , 2021 , 9, 2001812	8.1	6
168	Monitoring Reversible Tight Junction Modulation with a Current-Driven Organic Electrochemical Transistor. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000940	6.8	6
167	Optical Outcoupling Efficiency in Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100155	6.4	2
166	Origin of the Efficiency Roll-Off in Single-Layer Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <i>Advanced Optical Materials</i> , 2021 , 9, 2100249	8.1	9
165	Relation between Spherulitic Growth, Molecular Organization, and Charge Carrier Transport in Meniscus-Guided Coated Organic Semiconducting Films. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100397	6.4	3
164	Current-Driven Organic Electrochemical Transistors for Monitoring Cell Layer Integrity with Enhanced Sensitivity. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100845	10.1	10
163	Molecular Origin of Balanced Bipolar Transport in Neat Layers of the Emitter CzDBA. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000120	6.8	6
162	Molecular library of OLED host materialsEvaluating the multiscale simulation workflow. <i>Chemical Physics Reviews</i> , 2021 , 2, 031304	4.4	7
161	De Novo Simulation of Charge Transport through Organic Single-Carrier Devices. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6416-6422	6.4	2
160	Self-Aligned Bilayers for Flexible Free-Standing Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
159	Virtual Screening of TADF Emitters for Single-Layer OLEDs.. <i>Frontiers in Chemistry</i> , 2021 , 9, 800027	5	3
158	Polymer Electronics: To Be or Not to Be?. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000144	6.8	18
157	Exciton Quenching due to Hole Trap Formation in Aged Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 1700643	6.4	4

156	Trap-Assisted Triplet Emission in Ladder-Polymer-Based Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000082	6.4	2
155	Green and stable processing of organic light-emitting diodes from aqueous nanodispersions. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6528-6535	7.1	7
154	A PMMA-based heterogeneous photocatalyst for visible light-promoted [4 + 2] cycloaddition. <i>Catalysis Science and Technology</i> , 2020 , 10, 2092-2099	5.5	8
153	Effects of fluorine substitution in quinoidal oligothiophenes for use as organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3580-3588	7.1	10
152	Solution-Processable 2D Materials Applied in Light-Emitting Diodes and Solar Cells. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900972	6.8	25
151	Key role of the meniscus shape in crystallization of organic semiconductors during meniscus-guided coating. <i>Materials Horizons</i> , 2020 , 7, 1631-1640	14.4	16
150	Polymer-perovskite blend light-emitting diodes using a self-compensated heavily doped polymeric anode. <i>APL Materials</i> , 2020 , 8, 021101	5.7	7
149	Role of Singlet and Triplet Excitons on the Electrical Stability of Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000367	6.4	1
148	Space-charge-limited electron and hole currents in hybrid organic-inorganic perovskites. <i>Nature Communications</i> , 2020 , 11, 4023	17.4	60
147	Multiscale real time and high sensitivity ion detection with complementary organic electrochemical transistors amplifier. <i>Nature Communications</i> , 2020 , 11, 3743	17.4	57
146	A window to trap-free charge transport in organic semiconducting thin films. <i>Nature Materials</i> , 2019 , 18, 1182-1186	27	82
145	Hole-transport comparison between solution-processed and vacuum-deposited organic semiconductors. <i>APL Materials</i> , 2019 , 7, 011105	5.7	1
144	Effect of DMSO Solvent Treatments on the Performance of PEDOT:PSS Based Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800804	6.4	23
143	Solution-Processed Organic Transistors with Excellent Electrical Stability under Ambient Conditions. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900295	6.4	9
142	Suppression of electron trapping by quantum dot emitters using a grafted polystyrene shell. <i>Materials Horizons</i> , 2019 , 6, 2024-2031	14.4	6
141	Functional Connectivity of Organic Neuromorphic Devices by Global Voltage Oscillations. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900013	6	19
140	Quantification of hole-trap concentration in degraded polymer light-emitting diodes using impedance spectroscopy. <i>Applied Physics Letters</i> , 2019 , 114, 163301	3.4	6
139	Efficiency enhancement of polyfluorene: Polystyrene blend light-emitting diodes by simultaneous trap dilution and phase formation. <i>Applied Physics Letters</i> , 2019 , 114, 093301	3.4	10

138	Electron Trapping in Conjugated Polymers. <i>Chemistry of Materials</i> , 2019 , 31, 6380-6386	9.6	42
137	Monitoring of Cell Layer Integrity with a Current-Driven Organic Electrochemical Transistor. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900128	10.1	17
136	Efficient and stable single-layer organic light-emitting diodes based on thermally activated delayed fluorescence. <i>Nature Photonics</i> , 2019 , 13, 765-769	33.9	80
135	Probing the Impedance of a Biological Tissue with PEDOT:PSS-Coated Metal Electrodes: Effect of Electrode Size on Sensing Efficiency. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1901215	10.1	20
134	Improved Hole Injection into Perovskite Light-Emitting Diodes Using A Black Phosphorus Interlayer. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800687	6.4	14
133	Universal strategy for Ohmic hole injection into organic semiconductors with high ionization energies. <i>Nature Materials</i> , 2018 , 17, 329-334	27	119
132	A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4677-4681	16.4	68
131	High-sensitivity ion detection at low voltages with current-driven organic electrochemical transistors. <i>Nature Communications</i> , 2018 , 9, 1441	17.4	67
130	Hole trap formation in polymer light-emitting diodes under current stress. <i>Nature Materials</i> , 2018 , 17, 557-562	27	50
129	Hybrid Silver Nanowire and Graphene-Based Solution-Processed Transparent Electrode for Organic Optoelectronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1706010	15.6	183
128	Integrated circuits based on conjugated polymer monolayer. <i>Nature Communications</i> , 2018 , 9, 451	17.4	50
127	Efficiency of solution-processed multilayer polymer light-emitting diodes using charge blocking layers. <i>Journal of Applied Physics</i> , 2018 , 123, 024504	2.5	4
126	Origin of Negative Capacitance in Bipolar Organic Diodes. <i>Physical Review Letters</i> , 2018 , 120, 116602	7.4	26
125	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15491-15495	16.4	195
124	Crystallization Control of Organic Semiconductors during Meniscus-Guided Coating by Blending with Polymer Binder. <i>Advanced Functional Materials</i> , 2018 , 28, 1805594	15.6	27
123	Temperature dependence of the photo- and electroluminescence of poly(p-phenylene vinylene) based polymers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10569-10579	7.1	13
122	Rigorous Characterization and Predictive Modeling of Hole Transport in Amorphous Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800366	6.4	20
121	Oligothiophene quinoids containing a benzo[c]thiophene unit for the stabilization of the quinoidal electronic structure. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7493-7500	7.1	26

120	Influence of Energetic Disorder on Exciton Lifetime and Photoluminescence Efficiency in Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 1405-1412	3.4	16
119	Solution-processed multilayer polymer light-emitting diode without intermixing. <i>Applied Physics Letters</i> , 2017 , 110, 023302	3.4	12
118	Charge carrier trapping controlled by polymer blend phase dynamics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3042-3048	7.1	20
117	Electron and hole transport in the organic small molecule π -NPD. <i>Applied Physics Letters</i> , 2017 , 110, 073301	3.4	20
116	Open-circuit voltage loss in annealed P3HT:perylene diimide bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2017 , 110, 163301	3.4	9
115	Quantifying the Kinetics of the Gilch Polymerization toward Alkoxy-Substituted Poly(p-phenylene vinylene). <i>Macromolecules</i> , 2017 , 50, 4952-4961	5.5	15
114	Solubility and Charge Transport in Blends of Poly-dialkoxy-p-phenylene Vinylene and UV-Cross-Linkable Matrices. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600519	6.4	5
113	Absence of ferroelectricity in methylammonium lead iodide perovskite. <i>AIP Advances</i> , 2017 , 7, 095110	1.5	22
112	Visualization of trap dilution in polyfluorene based light-emitting diodes. <i>AIP Advances</i> , 2017 , 7, 075209	1.5	9
111	Transient electroluminescence on pristine and degraded phosphorescent blue OLEDs. <i>Journal of Applied Physics</i> , 2017 , 122, 185502	2.5	7
110	Solution-Processable High-Quality Graphene for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25412-25417	9.5	40
109	Modeling of Electrical Characteristics of Degraded Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600103	6.4	23
108	Filling the Green Gap of a Megadalton Photosystem I Complex by Conjugation of Organic Dyes. <i>Bioconjugate Chemistry</i> , 2016 , 27, 36-41	6.3	10
107	Efficient Blue Polymer Light-Emitting Diodes with Electron-Dominated Transport Due to Trap Dilution. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500406	6.4	11
106	Effect of non-ohmic contacts on the light-intensity dependence of the open-circuit voltage in organic solar cells. <i>Applied Physics Letters</i> , 2016 , 109, 053302	3.4	26
105	Elimination of charge carrier trapping in diluted π -semiconductors. <i>Nature Materials</i> , 2016 , 15, 628-33	27	103
104	Switching dynamics in ferroelectric P(VDF-TrFE) thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	37
103	Exciton diffusion in organic semiconductors. <i>Energy and Environmental Science</i> , 2015 , 8, 1867-1888	35.4	497

102	25th anniversary article: charge transport and recombination in polymer light-emitting diodes. <i>Advanced Materials</i> , 2014 , 26, 512-31	24	158
101	Trap-limited exciton diffusion in organic semiconductors. <i>Advanced Materials</i> , 2014 , 26, 1912-7	24	111
100	Effect of arylamine hole-transport units on the performance of blue polyspirobifluorene light-emitting diodes. <i>Physical Review B</i> , 2014 , 90,	3-3	3
99	Diffusion-driven currents in organic-semiconductor diodes. <i>NPG Asia Materials</i> , 2014 , 6, e110-e110	10-3	33
98	Exciton quenching at PEDOT:PSS anode in polymer blue-light-emitting diodes. <i>Journal of Applied Physics</i> , 2014 , 116, 224508	2-5	18
97	Spectroscopic evidence for trap-dominated magnetic field effects in organic semiconductors. <i>Physical Review B</i> , 2014 , 90,	3-3	15
96	Diffusion-limited current in organic metal-insulator-metal diodes. <i>Physical Review Letters</i> , 2013 , 111, 186801	7-4	76
95	Quantifying Bimolecular Recombination in Organic Solar Cells in Steady State. <i>Advanced Energy Materials</i> , 2013 , 3, 1130-1134	21-8	56
94	Simultaneous Open-Circuit Voltage Enhancement and Short-Circuit Current Loss in Polymer: Fullerene Solar Cells Correlated by Reduced Quantum Efficiency for Photoinduced Electron Transfer. <i>Advanced Energy Materials</i> , 2013 , 3, 85-94	21-8	72
93	Efficient electron injection from solution-processed cesium stearate interlayers in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 053301	3-4	15
92	Asymmetric electron and hole transport in a high-mobility n-type conjugated polymer. <i>Physical Review B</i> , 2012 , 86,	3-3	58
91	Exciton diffusion length in narrow bandgap polymers. <i>Energy and Environmental Science</i> , 2012 , 5, 6960	35-4	185
90	Effect of thermal annealing on exciton diffusion in a diketopyrrolopyrrole derivative. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14196-201	3-6	44
89	Physics of organic ferroelectric field-effect transistors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 47-54	2-6	38
88	Carrier-density dependence of the hole mobility in doped and undoped regioregular poly(3-hexylthiophene). <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 138-141	1-3	12
87	Unification of trap-limited electron transport in semiconducting polymers. <i>Nature Materials</i> , 2012 , 11, 882-7	27	348
86	Influence of the isomeric composition of the acceptor on the performance of organic bulk heterojunction P3HT:bis-PCBM solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15412		25
85	Device Physics of White Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2012 , 22, 2040-2047	47	47

84	Identifying the Nature of Charge Recombination in Organic Solar Cells from Charge-Transfer State Electroluminescence. <i>Advanced Energy Materials</i> , 2012 , 2, 1232-1237	21.8	85
83	Formation of inversion layers in organic field-effect transistors. <i>Physical Review B</i> , 2012 , 85,	3.3	17
82	Charge transport in dual-gate organic field-effect transistors. <i>Applied Physics Letters</i> , 2012 , 100, 023308	3.4	24
81	Beyond the Nernst-limit with dual-gate ZnO ion-sensitive field-effect transistors. <i>Applied Physics Letters</i> , 2011 , 98, 043502	3.4	86
80	Electron traps in semiconducting polymers: Exponential versus Gaussian trap distribution. <i>Physical Review B</i> , 2011 , 83,	3.3	88
79	Electron and hole transport in poly(fluorene-benzothiadiazole). <i>Applied Physics Letters</i> , 2011 , 98, 143504	3.4	70
78	Origin of the efficiency enhancement in ferroelectric functionalized organic solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 183301	3.4	41
77	Validity of the Einstein relation in disordered organic semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 066605	7.4	104
76	Trap-assisted recombination in disordered organic semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 256805	7.4	215
75	Trap-assisted and Langevin-type recombination in organic light-emitting diodes. <i>Physical Review B</i> , 2011 , 83,	3.3	115
74	Origin of the dark-current ideality factor in polymer:fullerene bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 153506	3.4	231
73	Polymer light-emitting diodes with doped hole-transport layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2482-2487	1.6	1
72	Role of balanced charge carrier transport in low band gap polymer:Fullerene bulk heterojunction solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 708-711	2.6	50
71	Effect of n-type doping on the hole transport in poly(p-phenylene vinylene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 1745-1749	2.6	6
70	Charge Transport and Recombination in Polyspirobifluorene Blue Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2011 , 21, 1505-1510	15.6	21
69	The Effect of Ketone Defects on the Charge Transport and Charge Recombination in Polyfluorenes. <i>Advanced Functional Materials</i> , 2011 , 21, 4502-4509	15.6	36
68	Sensitive triplet exciton detection in polyfluorene using Pd-coordinated porphyrin. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14453-6	3.6	9
67	Quantitative analysis of the guest-concentration dependence of the mobility in a disordered fluorene-arylamine host-guest system in the guest-to-guest regime. <i>Applied Physics Letters</i> , 2011 , 99, 203303	3.4	8

66	N-type doping of poly(p-phenylene vinylene) with air-stable dopants. <i>Applied Physics Letters</i> , 2011 , 99, 173302	3.4	23
65	Determination of the trap-assisted recombination strength in polymer light emitting diodes. <i>Applied Physics Letters</i> , 2011 , 98, 093301	3.4	49
64	Optical detection of deep electron traps in poly(p-phenylene vinylene) light-emitting diodes. <i>Applied Physics Letters</i> , 2011 , 99, 183305	3.4	14
63	Hysteresis-free electron currents in poly(p-phenylene vinylene) derivatives. <i>Journal of Applied Physics</i> , 2010 , 107, 124504	2.5	21
62	Electrical characteristics of conjugated self-assembled monolayers in large-area molecular junctions. <i>Applied Physics Letters</i> , 2010 , 97, 173302	3.4	27
61	Doping kinetics of organic semiconductors investigated by field-effect transistors. <i>Applied Physics Letters</i> , 2010 , 97, 043302	3.4	19
60	Organic field-effect transistor-based biosensors functionalized with protein receptors. <i>Journal of Applied Physics</i> , 2010 , 108, 124501	2.5	23
59	Monolayer dual gate transistors with a single charge transport layer. <i>Applied Physics Letters</i> , 2010 , 96, 143304	3.4	16
58	A deeper Insight into the Dithiocarbamate Precursor Route: Synthesis of Soluble Poly(thienylene vinylene) Derivatives for Photovoltaic Applications. <i>Macromolecules</i> , 2010 , 43, 10231-10240	5.5	20
57	Substituted Polyfluorene-Based Hole Transport Layer with Tunable Solubility. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10559-10564	3.8	6
56	Trap-free electron transport in poly(p-phenylene vinylene) by deactivation of traps with n-type doping. <i>Physical Review B</i> , 2010 , 81,	3.3	103
55	Enhancement of the hole injection into regioregular poly(3-hexylthiophene) by molecular doping. <i>Applied Physics Letters</i> , 2010 , 97, 083303	3.4	41
54	Crossbar memory array of organic bistable rectifying diodes for nonvolatile data storage. <i>Applied Physics Letters</i> , 2010 , 97, 193308	3.4	56
53	Dual-Gate Organic Field-Effect Transistors as Potentiometric Sensors in Aqueous Solution. <i>Advanced Functional Materials</i> , 2010 , 20, 898-905	15.6	122
52	Controllable Molecular Doping and Charge Transport in Solution-Processed Polymer Semiconducting Layers. <i>Advanced Functional Materials</i> , 2009 , 19, 1901-1905	15.6	121
51	Single-Layer Pentacene Field-Effect Transistors Using Electrodes Modified With Self-assembled Monolayers. <i>Advanced Materials</i> , 2009 , 21, 4109-4114	24	92
50	Microcontact printing of self-assembled monolayers to pattern the light-emission of polymeric light-emitting diodes. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 1-5	2.6	8
49	Bottom-up organic integrated circuits. <i>Nature</i> , 2008 , 455, 956-959	50.4	331

48	Temperature dependence of exciton diffusion in conjugated polymers. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11601-4	3-4	137
47	Combined optical and electrical modeling of polymer:fullerene bulk heterojunction solar cells. <i>Journal of Applied Physics</i> , 2008 , 103, 084502	2-5	87
46	Diffusion-enhanced hole transport in thin polymer light-emitting diodes. <i>Physical Review B</i> , 2008 , 77,	3-3	55
45	Charge dissociation in polymer:fullerene bulk heterojunction solar cells with enhanced permittivity. <i>Journal of Applied Physics</i> , 2008 , 104, 114517	2-5	40
44	Increasing the noise margin in organic circuits using dual gate field-effect transistors. <i>Applied Physics Letters</i> , 2008 , 92, 143304	3-4	56
43	Hole transport in blue and white emitting polymers. <i>Journal of Applied Physics</i> , 2008 , 103, 113711	2-5	15
42	Fullerene Bisadducts for Enhanced Open-Circuit Voltages and Efficiencies in Polymer Solar Cells. <i>Advanced Materials</i> , 2008 , 20, 2116-2119	24	546
41	Manipulation of charge carrier injection into organic field-effect transistors by self-assembled monolayers of alkanethiols. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1947		97
40	Unified description of potential profiles and electrical transport in unipolar and ambipolar organic field-effect transistors. <i>Physical Review B</i> , 2007 , 76,	3-3	30
39	Optimum charge carrier mobility in organic solar cells. <i>Applied Physics Letters</i> , 2007 , 90, 133504	3-4	186
38	Solution-processed organic tandem solar cells with embedded optical spacers. <i>Journal of Applied Physics</i> , 2007 , 102, 074506	2-5	71
37	Trap-limited electron transport in disordered semiconducting polymers. <i>Physical Review B</i> , 2007 , 75,	3-3	111
36	Charge Carrier Density Dependence of the Hole Mobility in Poly(p-phenylene vinylene) 2006 , 305-318		
35	Ambipolar charge transport in organic field-effect transistors. <i>Physical Review B</i> , 2006 , 73,	3-3	152
34	Device model for the operation of polymer/fullerene bulk heterojunction solar cells. <i>Physical Review B</i> , 2005 , 72,	3-3	752
33	Unified description of charge-carrier mobilities in disordered semiconducting polymers. <i>Physical Review Letters</i> , 2005 , 94, 206601	7-4	755
32	Simultaneous enhancement of charge transport and exciton diffusion in poly(p-phenylene vinylene) derivatives. <i>Physical Review B</i> , 2005 , 72,	3-3	171
31	Light intensity dependence of open-circuit voltage of polymer:fullerene solar cells. <i>Applied Physics Letters</i> , 2005 , 86, 123509	3-4	914

30	High-performance solution-processed polymer ferroelectric field-effect transistors. <i>Nature Materials</i> , 2005 , 4, 243-248	27	809
29	Luminescent Poly(p-phenylenevinylene) Hole-Transport Layers with Adjustable Solubility. <i>Advanced Functional Materials</i> , 2005 , 15, 2011-2015	15.6	20
28	All-polymer ferroelectric transistors. <i>Applied Physics Letters</i> , 2005 , 87, 092903	3.4	113
27	Dynamics of exciton diffusion in poly(p-phenylene vinylene)/fullerene heterostructures. <i>Physical Review B</i> , 2005 , 72,	3.3	79
26	Migration-assisted energy transfer at conjugated polymer/metal interfaces. <i>Physical Review B</i> , 2005 , 72,	3.3	46
25	Charge injection across a polymeric heterojunction. <i>Physical Review B</i> , 2005 , 71,	3.3	29
24	Exciton quenching in poly(phenylene vinylene) polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 87, 233511	3.4	37
23	Integrated Complementary-Like Circuits Based on Organic Ambipolar Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 871, 1		5
22	Tuning of Metal Work Functions with Self-Assembled Monolayers. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 871, 1		4
21	Organic complementary-like inverters employing methanofullerene-based ambipolar field-effect transistors. <i>Applied Physics Letters</i> , 2004 , 85, 4205-4207	3.4	167
20	Origin of the enhanced space-charge-limited current in poly(p-phenylene vinylene). <i>Physical Review B</i> , 2004 , 70,	3.3	146
19	Cathode dependence of the open-circuit voltage of polymer:fullerene bulk heterojunction solar cells. <i>Journal of Applied Physics</i> , 2003 , 94, 6849-6854	2.5	697
18	Unification of the hole transport in polymeric field-effect transistors and light-emitting diodes. <i>Physical Review Letters</i> , 2003 , 91, 216601	7.4	630
17	Charge transport in disordered organic field-effect transistors. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 725, 1		1
16	Switch-on voltage in disordered organic field-effect transistors. <i>Applied Physics Letters</i> , 2002 , 80, 3838-3840	3.4	173
15	Performance of Injection-Limited Polymer Light-Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 725, 1		
14	Admittance Spectroscopy on Polymer Light-Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 665, 1		
13	Simultaneous measurement of electron and hole mobilities in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2000 , 77, 1852	3.4	162

12	Dispersive Hole Transport in Poly(p-Phenylene Vinylene). <i>Physical Review Letters</i> , 1998 , 80, 3819-3822	7.4	149
11	Temperature dependent electron-hole recombination in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 1997 , 71, 930-932	3.4	160
10	Electric-field and temperature dependence of the hole mobility in poly(p-phenylene vinylene). <i>Physical Review B</i> , 1997 , 55, R656-R659	3.3	707
9	Electron and hole transport in poly(p-phenylene vinylene) devices. <i>Applied Physics Letters</i> , 1996 , 68, 3308-3310	3.3	698
8	Numerical Device Model for Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <i>Advanced Electronic Materials</i> , 2101261	6.4	0
7	Organic Semiconductor/Insulator Blends for Elastic Field-Effect Transistors and Sensors. <i>Advanced Functional Materials</i> , 2105456	15.6	14
6	Optimized Charge Transport in Molecular Semiconductors by Control of Fluid Dynamics and Crystallization in Meniscus-Guided Coating. <i>Advanced Functional Materials</i> , 2107976	15.6	3
5	Selective Ion Detection with Integrated Organic Electrochemical Transistors. <i>Advanced Materials Technologies</i> , 2100591	6.8	5
4	Efficient Gating of Organic Electrochemical Transistors with In-Plane Gate Electrodes. <i>Advanced Materials Technologies</i> , 2100732	6.8	5
3	Universal Electroluminescence at Voltages below the Energy Gap in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2101149	8.1	2
2	Electron Trap Dynamics in Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2106185	15.6	2
1	High-Performance Bioelectronic Circuits Integrated on Biodegradable and Compostable Substrates with Fully Printed Mask-Less Organic Electrochemical Transistors. <i>Small</i> , 2108077	11	3