

Paul W M Blom

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173
papers

14,999
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175
ext. papers

16,377
ext. citations

8.5
avg, IF

6.73
L-index

#	Paper	IF	Citations
173	Light intensity dependence of open-circuit voltage of polymer:fullerene solar cells. <i>Applied Physics Letters</i> , 2005 , 86, 123509	3.4	914
172	High-performance solution-processed polymer ferroelectric field-effect transistors. <i>Nature Materials</i> , 2005 , 4, 243-248	27	809
171	Unified description of charge-carrier mobilities in disordered semiconducting polymers. <i>Physical Review Letters</i> , 2005 , 94, 206601	7.4	755
170	Device model for the operation of polymer/fullerene bulk heterojunction solar cells. <i>Physical Review B</i> , 2005 , 72,	3.3	752
169	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
168	Electron and hole transport in poly(p-phenylene vinylene) devices. <i>Applied Physics Letters</i> , 1996 , 68, 3308-3310	3.10	698
167	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
166	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
165	Fullerene Bisadducts for Enhanced Open-Circuit Voltages and Efficiencies in Polymer Solar Cells. <i>Advanced Materials</i> , 2008 , 20, 2116-2119	24	546
164	Exciton diffusion in organic semiconductors. <i>Energy and Environmental Science</i> , 2015 , 8, 1867-1888	35.4	497
163	Unification of trap-limited electron transport in semiconducting polymers. <i>Nature Materials</i> , 2012 , 11, 882-7	27	348
162	Bottom-up organic integrated circuits. <i>Nature</i> , 2008 , 455, 956-959	50.4	331
161	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
160	Trap-assisted recombination in disordered organic semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 256805	7.4	215
159	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
158	Optimum charge carrier mobility in organic solar cells. <i>Applied Physics Letters</i> , 2007 , 90, 133504	3.4	186
157	Exciton diffusion length in narrow bandgap polymers. <i>Energy and Environmental Science</i> , 2012 , 5, 6960	35.4	185

156	Hybrid Silver Nanowire and Graphene-Based Solution-Processed Transparent Electrode for Organic Optoelectronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1706010	15.6	183
155	Switch-on voltage in disordered organic field-effect transistors. <i>Applied Physics Letters</i> , 2002 , 80, 3838-3840	3.4	173
154	Simultaneous enhancement of charge transport and exciton diffusion in poly(p-phenylene vinylene) derivatives. <i>Physical Review B</i> , 2005 , 72,	3.3	171
153	Organic complementary-like inverters employing methanofullerene-based ambipolar field-effect transistors. <i>Applied Physics Letters</i> , 2004 , 85, 4205-4207	3.4	167
152	Simultaneous measurement of electron and hole mobilities in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2000 , 77, 1852	3.4	162
151	Temperature dependent electron-hole recombination in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 1997 , 71, 930-932	3.4	160
150	25th anniversary article: charge transport and recombination in polymer light-emitting diodes. <i>Advanced Materials</i> , 2014 , 26, 512-31	24	158
149	Ambipolar charge transport in organic field-effect transistors. <i>Physical Review B</i> , 2006 , 73,	3.3	152
148	Dispersive Hole Transport in Poly(p-Phenylene Vinylene). <i>Physical Review Letters</i> , 1998 , 80, 3819-3822	7.4	149
147	Origin of the enhanced space-charge-limited current in poly(p-phenylene vinylene). <i>Physical Review B</i> , 2004 , 70,	3.3	146
146	Temperature dependence of exciton diffusion in conjugated polymers. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11601-4	3.4	137
145	Dual-Gate Organic Field-Effect Transistors as Potentiometric Sensors in Aqueous Solution. <i>Advanced Functional Materials</i> , 2010 , 20, 898-905	15.6	122
144	Controllable Molecular Doping and Charge Transport in Solution-Processed Polymer Semiconducting Layers. <i>Advanced Functional Materials</i> , 2009 , 19, 1901-1905	15.6	121
143	Universal strategy for Ohmic hole injection into organic semiconductors with high ionization energies. <i>Nature Materials</i> , 2018 , 17, 329-334	27	119
142	Trap-assisted and Langevin-type recombination in organic light-emitting diodes. <i>Physical Review B</i> , 2011 , 83,	3.3	115
141	All-polymer ferroelectric transistors. <i>Applied Physics Letters</i> , 2005 , 87, 092903	3.4	113
140	Trap-limited exciton diffusion in organic semiconductors. <i>Advanced Materials</i> , 2014 , 26, 1912-7	24	111
139	Trap-limited electron transport in disordered semiconducting polymers. <i>Physical Review B</i> , 2007 , 75,	3.3	111

138	Validity of the Einstein relation in disordered organic semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 066605	7.4	104
137	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
136	Elimination of charge carrier trapping in diluted semiconductors. <i>Nature Materials</i> , 2016 , 15, 628-33	27	103
135	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
134	Single-Layer Pentacene Field-Effect Transistors Using Electrodes Modified With Self-assembled Monolayers. <i>Advanced Materials</i> , 2009 , 21, 4109-4114	24	92
133	Electron traps in semiconducting polymers: Exponential versus Gaussian trap distribution. <i>Physical Review B</i> , 2011 , 83,	3.3	88
132	Combined optical and electrical modeling of polymer:fullerene bulk heterojunction solar cells. <i>Journal of Applied Physics</i> , 2008 , 103, 084502	2.5	87
131	Beyond the Nernst-limit with dual-gate ZnO ion-sensitive field-effect transistors. <i>Applied Physics Letters</i> , 2011 , 98, 043502	3.4	86
130	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
129	A window to trap-free charge transport in organic semiconducting thin films. <i>Nature Materials</i> , 2019 , 18, 1182-1186	27	82
128	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
127	Dynamics of exciton diffusion in poly(p-phenylene vinylene)/fullerene heterostructures. <i>Physical Review B</i> , 2005 , 72,	3.3	79
126	Diffusion-limited current in organic metal-insulator-metal diodes. <i>Physical Review Letters</i> , 2013 , 111, 186801	7.4	76
125	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
124	Solution-processed organic tandem solar cells with embedded optical spacers. <i>Journal of Applied Physics</i> , 2007 , 102, 074506	2.5	71
123	Electron and hole transport in poly(fluorene-benzothiadiazole). <i>Applied Physics Letters</i> , 2011 , 98, 143504	3.4	70
122	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
121	High-sensitivity ion detection at low voltages with current-driven organic electrochemical transistors. <i>Nature Communications</i> , 2018 , 9, 1441	17.4	67

120	Space-charge-limited electron and hole currents in hybrid organic-inorganic perovskites. <i>Nature Communications</i> , 2020 , 11, 4023	17.4	60
119	Asymmetric electron and hole transport in a high-mobility n-type conjugated polymer. <i>Physical Review B</i> , 2012 , 86,	3.3	58
118	Multiscale real time and high sensitivity ion detection with complementary organic electrochemical transistors amplifier. <i>Nature Communications</i> , 2020 , 11, 3743	17.4	57
117	Quantifying Bimolecular Recombination in Organic Solar Cells in Steady State. <i>Advanced Energy Materials</i> , 2013 , 3, 1130-1134	21.8	56
116	Crossbar memory array of organic bistable rectifying diodes for nonvolatile data storage. <i>Applied Physics Letters</i> , 2010 , 97, 193308	3.4	56
115	Increasing the noise margin in organic circuits using dual gate field-effect transistors. <i>Applied Physics Letters</i> , 2008 , 92, 143304	3.4	56
114	Diffusion-enhanced hole transport in thin polymer light-emitting diodes. <i>Physical Review B</i> , 2008 , 77,	3.3	55
113	Hole trap formation in polymer light-emitting diodes under current stress. <i>Nature Materials</i> , 2018 , 17, 557-562	27	50
112	Integrated circuits based on conjugated polymer monolayer. <i>Nature Communications</i> , 2018 , 9, 451	17.4	50
111	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
110	Determination of the trap-assisted recombination strength in polymer light emitting diodes. <i>Applied Physics Letters</i> , 2011 , 98, 093301	3.4	49
109	Device Physics of White Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2012 , 22, 2040-2047	17.4	47
108	Migration-assisted energy transfer at conjugated polymer/metal interfaces. <i>Physical Review B</i> , 2005 , 72,	3.3	46
107	Effect of thermal annealing on exciton diffusion in a diketopyrrolopyrrole derivative. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14196-201	3.6	44
106	Electron Trapping in Conjugated Polymers. <i>Chemistry of Materials</i> , 2019 , 31, 6380-6386	9.6	42
105	Origin of the efficiency enhancement in ferroelectric functionalized organic solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 183301	3.4	41
104	Enhancement of the hole injection into regioregular poly(3-hexylthiophene) by molecular doping. <i>Applied Physics Letters</i> , 2010 , 97, 083303	3.4	41
103	Solution-Processable High-Quality Graphene for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25412-25417	9.5	40

102	Charge dissociation in polymer:fullerene bulk heterojunction solar cells with enhanced permittivity. <i>Journal of Applied Physics</i> , 2008 , 104, 114517	2.5	40
101	Physics of organic ferroelectric field-effect transistors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 47-54	2.6	38
100	Switching dynamics in ferroelectric P(VDF-TrFE) thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	37
99	Exciton quenching in poly(phenylene vinylene) polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 87, 233511	3.4	37
98	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
97	Diffusion-driven currents in organic-semiconductor diodes. <i>NPG Asia Materials</i> , 2014 , 6, e110-e110	10.3	33
96	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
95	Charge injection across a polymeric heterojunction. <i>Physical Review B</i> , 2005 , 71,	3.3	29
94	Electrical characteristics of conjugated self-assembled monolayers in large-area molecular junctions. <i>Applied Physics Letters</i> , 2010 , 97, 173302	3.4	27
93	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
92	Origin of Negative Capacitance in Bipolar Organic Diodes. <i>Physical Review Letters</i> , 2018 , 120, 116602	7.4	26
91	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
90	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
89	Solution-Processable 2D Materials Applied in Light-Emitting Diodes and Solar Cells. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900972	6.8	25
88	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
87	Charge transport in dual-gate organic field-effect transistors. <i>Applied Physics Letters</i> , 2012 , 100, 023308	3.4	24
86	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
85	Modeling of Electrical Characteristics of Degraded Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600103	6.4	23

84	Organic field-effect transistor-based biosensors functionalized with protein receptors. <i>Journal of Applied Physics</i> , 2010 , 108, 124501	2.5	23
83	N-type doping of poly(p-phenylene vinylene) with air-stable dopants. <i>Applied Physics Letters</i> , 2011 , 99, 173302	3.4	23
82	Absence of ferroelectricity in methylammonium lead iodide perovskite. <i>AIP Advances</i> , 2017 , 7, 095110	1.5	22
81	Charge Transport and Recombination in Polyspirobifluorene Blue Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2011 , 21, 1505-1510	15.6	21
80	Hysteresis-free electron currents in poly(p-phenylene vinylene) derivatives. <i>Journal of Applied Physics</i> , 2010 , 107, 124504	2.5	21
79	Charge carrier trapping controlled by polymer blend phase dynamics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3042-3048	7.1	20
78	Electron and hole transport in the organic small molecule π NPd. <i>Applied Physics Letters</i> , 2017 , 110, 073301	3.4	20
77	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
76	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
75	Luminescent Poly(p-phenylenevinylene) Hole-Transport Layers with Adjustable Solubility. <i>Advanced Functional Materials</i> , 2005 , 15, 2011-2015	15.6	20
74	Rigorous Characterization and Predictive Modeling of Hole Transport in Amorphous Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800366	6.4	20
73	Functional Connectivity of Organic Neuromorphic Devices by Global Voltage Oscillations. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900013	6	19
72	Doping kinetics of organic semiconductors investigated by field-effect transistors. <i>Applied Physics Letters</i> , 2010 , 97, 043302	3.4	19
71	Polymer Electronics: To Be or Not to Be?. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000144	6.8	18
70	Exciton quenching at PEDOT:PSS anode in polymer blue-light-emitting diodes. <i>Journal of Applied Physics</i> , 2014 , 116, 224508	2.5	18
69	Monitoring of Cell Layer Integrity with a Current-Driven Organic Electrochemical Transistor. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900128	10.1	17
68	Formation of inversion layers in organic field-effect transistors. <i>Physical Review B</i> , 2012 , 85,	3.3	17
67	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

66	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
65	Monolayer dual gate transistors with a single charge transport layer. <i>Applied Physics Letters</i> , 2010 , 96, 143304	3.4	16
64	Quantifying the Kinetics of the Gilch Polymerization toward Alkoxy-Substituted Poly(p-phenylene vinylene). <i>Macromolecules</i> , 2017 , 50, 4952-4961	5.5	15
63	Spectroscopic evidence for trap-dominated magnetic field effects in organic semiconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	15
62	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
61	Hole transport in blue and white emitting polymers. <i>Journal of Applied Physics</i> , 2008 , 103, 113711	2.5	15
60	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
59	Organic Semiconductor/Insulator Blends for Elastic Field-Effect Transistors and Sensors. <i>Advanced Functional Materials</i> , 2105456	15.6	14
58	Improved Hole Injection into Perovskite Light-Emitting Diodes Using A Black Phosphorus Interlayer. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800687	6.4	14
57	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
56	Solution-processed multilayer polymer light-emitting diode without intermixing. <i>Applied Physics Letters</i> , 2017 , 110, 023302	3.4	12
55	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
54	Organic neuromorphic electronics for sensorimotor integration and learning in robotics. <i>Science Advances</i> , 2021 , 7, eabl5068	14.3	11
53	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
52	Efficiency enhancement of polyfluorene: Polystyrene blend light-emitting diodes by simultaneous trap dilution and π phase formation. <i>Applied Physics Letters</i> , 2019 , 114, 093301	3.4	10
51	Effects of fluorine substitution in quinoial oligothiophenes for use as organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3580-3588	7.1	10
50	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
49	Current-Driven Organic Electrochemical Transistors for Monitoring Cell Layer Integrity with Enhanced Sensitivity. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100845	10.1	10

48	Open-circuit voltage loss in annealed P3HT:perylene diimide bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2017 , 110, 163301	3.4	9
47	Solution-Processed Organic Transistors with Excellent Electrical Stability under Ambient Conditions. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900295	6.4	9
46	Visualization of trap dilution in polyfluorene based light-emitting diodes. <i>AIP Advances</i> , 2017 , 7, 075209	1.5	9
45	Sensitive triplet exciton detection in polyfluorene using Pd-coordinated porphyrin. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14453-6	3.6	9
44	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
43	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
42	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
41	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
40	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
39	Transient electroluminescence on pristine and degraded phosphorescent blue OLEDs. <i>Journal of Applied Physics</i> , 2017 , 122, 185502	2.5	7
38	Polymer/Perovskite blend light-emitting diodes using a self-compensated heavily doped polymeric anode. <i>APL Materials</i> , 2020 , 8, 021101	5.7	7
37	Molecular library of OLED host materialsEvaluating the multiscale simulation workflow. <i>Chemical Physics Reviews</i> , 2021 , 2, 031304	4.4	7
36	Suppression of electron trapping by quantum dot emitters using a grafted polystyrene shell. <i>Materials Horizons</i> , 2019 , 6, 2024-2031	14.4	6
35	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
34	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
33	Substituted Polyfluorene-Based Hole Transport Layer with Tunable Solubility. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10559-10564	3.8	6
32	Optical Outcoupling Efficiency of Organic Light-Emitting Diodes with a Broad Recombination Profile. <i>Advanced Optical Materials</i> , 2021 , 9, 2001812	8.1	6
31	Monitoring Reversible Tight Junction Modulation with a Current-Driven Organic Electrochemical Transistor. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000940	6.8	6

30	Molecular Origin of Balanced Bipolar Transport in Neat Layers of the Emitter CzDBA. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000120	6.8	6
29	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
28	Integrated Complementary-Like Circuits Based on Organic Ambipolar Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 871, 1		5
27	Selective Ion Detection with Integrated Organic Electrochemical Transistors. <i>Advanced Materials Technologies</i> , 2100591	6.8	5
26	Efficient Gating of Organic Electrochemical Transistors with In-Plane Gate Electrodes. <i>Advanced Materials Technologies</i> , 2100732	6.8	5
25	Exciton Quenching due to Hole Trap Formation in Aged Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 1700643	6.4	4
24	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
23	Tuning of Metal Work Functions with Self-Assembled Monolayers. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 871, 1		4
22	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
21	Efficiency of Polymer Light-Emitting Diodes: A Perspective. <i>Advanced Materials</i> , 2021 , e2108887	2.4	3
20	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
19	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
18	Virtual Screening of TADF Emitters for Single-Layer OLEDs.. <i>Frontiers in Chemistry</i> , 2021 , 9, 800027	5	3
17	High-Performance Bioelectronic Circuits Integrated on Biodegradable and Compostable Substrates with Fully Printed Mask-Less Organic Electrochemical Transistors. <i>Small</i> , 2108077	11	3
16	Trap-Assisted Triplet Emission in Ladder-Polymer-Based Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000082	6.4	2
15	Optical Outcoupling Efficiency in Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100155	6.4	2
14	Universal Electroluminescence at Voltages below the Energy Gap in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2101149	8.1	2
13	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

12	Self-Aligned Bilayers for Flexible Free-Standing Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
11	Electron Trap Dynamics in Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2106185	15.6	2
10	Hole-transport comparison between solution-processed and vacuum-deposited organic semiconductors. <i>APL Materials</i> , 2019 , 7, 011105	5.7	1
9	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
8	Charge transport in disordered organic field-effect transistors. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 725, 1		1
7	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
6	Quantifying Exciton Annihilation Effects in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Optical Materials</i> , 2022 , 10, 2101784	8.1	1
5	Numerical Device Model for Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <i>Advanced Electronic Materials</i> , 2101261	6.4	0
4	Role of Linker Functionality in Polymers Exhibiting Main-Chain Thermally Activated Delayed Fluorescence.. <i>Advanced Science</i> , 2022 , e2200056	13.6	0
3	Charge Carrier Density Dependence of the Hole Mobility in Poly(p-phenylene vinylene) 2006 , 305-318		
2	Performance of Injection-Limited Polymer Light-Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 725, 1		
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