

Ronald Å-sterbacka

List of Publications by Year in descending order

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196
papers

8,828
citations

61984
43
h-index

48315
88
g-index

198
all docs

198
docs citations

198
times ranked

9829
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper Electronics. Advanced Materials, 2011, 23, 1935-1961.	21.0	1,141
2	Two-Dimensional Electronic Excitations in Self-Assembled Conjugated Polymer Nanocrystals. Science, 2000, 287, 839-842.	12.6	619
3	A review of charge transport and recombination in polymer/fullerene organic solar cells. Progress in Photovoltaics: Research and Applications, 2007, 15, 677-696.	8.1	515
4	Spectroscopic Studies of Photoexcitations in Regioregular and Regiorandom Polythiophene Films. Advanced Functional Materials, 2002, 12, 587-597.	14.9	314
5	Bimolecular Recombination Coefficient as a Sensitive Testing Parameter for Low-Mobility Solar-Cell Materials. Physical Review Letters, 2005, 94, 176806.	7.8	297
6	Charge carrier mobility in regioregular poly(3-hexylthiophene) probed by transient conductivity techniques: A comparative study. Physical Review B, 2005, 71, .	3.2	249
7	Charge transport and recombination in bulk heterojunction solar cells studied by the photoinduced charge extraction in linearly increasing voltage technique. Applied Physics Letters, 2005, 86, 112104.	3.3	184
8	Charge carrier mobility and lifetime versus composition of conjugated polymer/fullerene bulk-heterojunction solar cells. Organic Electronics, 2006, 7, 229-234.	2.6	161
9	Charge transport in conjugated polymers from extraction current transients. Physical Review B, 2000, 62, R16235-R16238.	3.2	158
10	Application of regioregular polythiophene in spintronic devices: Effect of interface. Applied Physics Letters, 2006, 89, 122114.	3.3	158
11	Cellulose-Based Ionogels for Paper Electronics. Advanced Functional Materials, 2014, 24, 625-634.	14.9	158
12	IR-sintering of ink-jet printed metal-nanoparticles on paper. Thin Solid Films, 2012, 520, 2949-2955.	1.8	144
13	Light-Emitting Paper. Advanced Functional Materials, 2015, 25, 3238-3245.	14.9	132
14	A multilayer coated fiber-based substrate suitable for printed functionality. Organic Electronics, 2009, 10, 1020-1023.	2.6	123
15	Non-Langevin bimolecular recombination in low-mobility materials. Journal of Non-Crystalline Solids, 2006, 352, 1167-1171.	3.1	106
16	High-Performance All-Polymer Transistor Utilizing a Hygroscopic Insulator. Advanced Materials, 2004, 16, 1112-1115.	21.0	100
17	The 2021 flexible and printed electronics roadmap. Flexible and Printed Electronics, 2021, 6, 023001.	2.7	100
18	Effect of Contacts in Organic Bulk Heterojunction Solar Cells. Physical Review Applied, 2014, 1, .	3.8	99

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19	Control of Self-Assembly by Charge-Transfer Complexation between C60Fullerene and Electron Donating Units of Block Copolymers. <i>Macromolecules</i> , 2006, 39, 7648-7653.	4.8	98
20	Ultimately Sensitive Organic Bioelectronic Transistor Sensors by Materials and Device Structure Design. <i>Advanced Functional Materials</i> , 2020, 30, 1904513.	14.9	97
21	Fullerene-based bistable devices and associated negative differential resistance effect. <i>Organic Electronics</i> , 2005, 6, 188-192.	2.6	91
22	Influence of Surface Properties of Coated Papers on Printed Electronics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6025-6036.	3.7	90
23	Relating Charge Transport, Contact Properties, and Recombination to Open-Circuit Voltage in Sandwich-Type Thin-Film Solar Cells. <i>Physical Review Applied</i> , 2016, 5, .	3.8	90
24	About the amplification factors in organic bioelectronic sensors. <i>Materials Horizons</i> , 2020, 7, 999-1013.	12.2	86
25	Comparing small molecules and polymer for future organic spin-valves. <i>Journal of Alloys and Compounds</i> , 2006, 423, 169-171.	5.5	78
26	Mobility and density relaxation of photogenerated charge carriers in organic materials. <i>Current Applied Physics</i> , 2004, 4, 534-538.	2.4	76
27	All-printed low-voltage organic transistors. <i>Organic Electronics</i> , 2008, 9, 931-935.	2.6	76
28	Excitons, polarons, and laser action in poly(p-phenylene vinylene) films. <i>Journal of Chemical Physics</i> , 2003, 118, 8905-8916.	3.0	75
29	Origin of the S-shaped <i>JV</i> Curve and the Light-Soaking Issue in Inverted Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1502265.	19.5	73
30	Langevin recombination and space-charge-perturbed current transients in regiorandom poly(3-hexylthiophene). <i>Physical Review B</i> , 2005, 71, .	3.2	71
31	Two dimensional Langevin recombination in regioregular poly(3-hexylthiophene). <i>Applied Physics Letters</i> , 2009, 95, 013303.	3.3	70
32	Trap-Assisted Recombination via Integer Charge Transfer States in Organic Bulk Heterojunction Photovoltaics. <i>Advanced Functional Materials</i> , 2014, 24, 6309-6316.	14.9	70
33	Tuning the electrical switching of polymer/fullerene nanocomposite thin film devices by control of morphology. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	64
34	Theory of exciton dissociation at the interface between a conjugated polymer and an electron acceptor. <i>Physical Review B</i> , 2011, 84, .	3.2	62
35	Spontaneous Charge Transfer and Dipole Formation at the Interface Between P3HT and PCBM. <i>Advanced Energy Materials</i> , 2011, 1, 792-797.	19.5	62
36	Organic Field-Effect Transistor Platform for Label-Free, Single-Molecule Detection of Genomic Biomarkers. <i>ACS Sensors</i> , 2020, 5, 1822-1830.	7.8	59

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37	Role of electron-hole pair formation in organic magnetoresistance. Physical Review B, 2009, 79, .	3.2	56
38	Operating principle of polymer insulator organic thin-film transistors exposed to moisture. Journal of Applied Physics, 2005, 98, 074504.	2.5	52
39	Synergetic effects of electrochemical oxidation of Spiro-OMeTAD and Li ⁺ ion migration for improving the performance of n ⁺ -i ⁺ -p type perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 7575-7585.	10.3	50
40	Phenothiazine-Based Hole-Transporting Materials toward Eco-friendly Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 3021-3027.	5.1	49
41	Double injection as a technique to study charge carrier transport and recombination in bulk-heterojunction solar cells. Applied Physics Letters, 2005, 87, 222110.	3.3	45
42	Inkjet-printed silver nanoparticles on nano-engineered cellulose films for electrically conducting structures and organic transistors: concept and challenges. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	45
43	Charge-carrier transport and recombination in thin insulating films studied via extraction of injected plasma. Physical Review B, 2006, 74, .	3.2	43
44	Large-Area Interfaces for Single-Molecule Label-free Bioelectronic Detection. Chemical Reviews, 2022, 122, 4636-4699.	47.7	43
45	Electrochemical fabrication of a nonvolatile memory device based on polyaniline and gold particles. Journal of Materials Chemistry, 2008, 18, 1853.	6.7	42
46	Low-Cost Hydrogen Sulfide Gas Sensor on Paper Substrates: Fabrication and Demonstration. IEEE Sensors Journal, 2012, 12, 1973-1978.	4.7	42
47	Printed environmentally friendly supercapacitors with ionic liquid electrolytes on paper. Journal of Power Sources, 2014, 271, 298-304.	7.8	42
48	Current modulation of a hygroscopic insulator organic field-effect transistor. Applied Physics Letters, 2004, 85, 3887-3889.	3.3	41
49	Time-of-flight measurements in thin films of regioregular poly(3-hexyl thiophene). Synthetic Metals, 2000, 109, 173-176.	3.9	40
50	Recombination of photogenerated and injected charge carriers in π -conjugated polymer/fullerene blends. Thin Solid Films, 2006, 511-512, 224-227.	1.8	40
51	Organic memory using [6,6]-phenyl-C61butyric acid methyl ester: morphology, thickness and concentration dependence studies. Nanotechnology, 2008, 19, 035203.	2.6	39
52	Surface Functionalization of Ion-Sensitive Floating-Gate Field-Effect Transistors With Organic Electronics. IEEE Transactions on Electron Devices, 2015, 62, 1291-1298.	3.0	39
53	Influence of TiO ₂ compact layer precursor on the performance of perovskite solar cells. Organic Electronics, 2017, 41, 287-293.	2.6	39
54	Tailored Approaches in Drug Development and Diagnostics: From Molecular Design to Biological Model Systems. Advanced Healthcare Materials, 2017, 6, 1700258.	7.6	38

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55	Vectorial photoinduced electron transfer in alternating Langmuir–Blodgett films of phytychlorin–[60]fullerene dyad and regioregular poly(3-hexylthiophene). <i>Chemical Physics</i> , 2002, 275, 243-251.	1.9	37
56	Effective temperature for hopping transport in a Gaussian density of states. <i>Physical Review B</i> , 2008, 77, .	3.2	37
57	On the validity of MIS-CELIV for mobility determination in organic thin-film devices. <i>Applied Physics Letters</i> , 2017, 110, 153504.	3.3	36
58	Impact of Film Thickness of Ultrathin Dip-Coated Compact TiO ₂ Layers on the Performance of Mesoscopic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17906-17913.	8.0	36
59	Delocalized polarons in self-assembled poly(3-hexyl thiophene) nanocrystals. <i>Synthetic Metals</i> , 2001, 116, 317-320.	3.9	34
60	Time-dependent Langevin-type bimolecular charge carrier recombination in regiorandom poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2005, 155, 242-245.	3.9	34
61	Application of Paper-Supported Printed Gold Electrodes for Impedimetric Immunosensor Development. <i>Biosensors</i> , 2013, 3, 1-17.	4.7	34
62	Towards all-polymer field-effect transistors with solution processable materials. <i>Synthetic Metals</i> , 2005, 148, 87-91.	3.9	33
63	Effect of La _{0.67} Sr _{0.33} MnO ₃ electrodes on organic spin valves. <i>Journal of Applied Physics</i> , 2008, 104, 033910.	2.5	33
64	Impact of humidity on functionality of on-paper printed electronics. <i>Nanotechnology</i> , 2014, 25, 094003.	2.6	33
65	Printed, cost-effective and stable poly(3-hexylthiophene) electrolyte-gated field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15312-15321.	5.5	33
66	Effect of electric field on diffusion in disordered materials. I. One-dimensional hopping transport. <i>Physical Review B</i> , 2010, 81, .	3.2	31
67	Self-Supported Ion-Conductive Membrane-Based Transistors. <i>Advanced Materials</i> , 2009, 21, 2520-2523.	21.0	30
68	An impedimetric study of DNA hybridization on paper-supported inkjet-printed gold electrodes. <i>Nanotechnology</i> , 2014, 25, 094009.	2.6	30
69	Printed all-polymer electrochemical transistors on patterned ion conducting membranes. <i>Organic Electronics</i> , 2010, 11, 1207-1211.	2.6	29
70	Applications of an all-polymer solution-processed high-performance, transistor. <i>Synthetic Metals</i> , 2005, 155, 662-665.	3.9	28
71	Printability of functional inks on multilayer curtain coated paper. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 68, 13-20.	3.6	28
72	Langmuir-Blodgett films of conjugated polymers: electroluminescence and charge transport mechanisms. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998, 4, 137-143.	2.9	27

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73	How to Reduce Charge Recombination in Organic Solar Cells: There are Still Lessons to Learn from P3HT:PCBM. <i>Advanced Electronic Materials</i> , 2021, 7, 2001056.	5.1	27
74	Bimolecular recombination in regiorandom poly(3-hexylthiophene). <i>Chemical Physics</i> , 2003, 286, 315-320.	1.9	26
75	Double-injection current transients as a way of measuring transport in insulating organic films. <i>Journal of Applied Physics</i> , 2007, 101, 114505.	2.5	26
76	Determination of Surface Recombination Velocities at Contacts in Organic Semiconductor Devices Using Injected Carrier Reservoirs. <i>Physical Review Letters</i> , 2017, 118, 076601.	7.8	26
77	Watching Space Charge Build Up in an Organic Solar Cell. <i>Solar Rrl</i> , 2020, 4, 1900505.	5.8	26
78	Photoexcitation dynamics in an alternating polyfluorene copolymer. <i>Physical Review B</i> , 2007, 75, .	3.2	25
79	The Effects of Moisture in Low-voltage Organic Field-effect Transistors Gated with a Hydrated Solid Electrolyte. <i>Advanced Functional Materials</i> , 2010, 20, 2605-2610.	14.9	25
80	Investigation of plasmonic gold-silica core-shell nanoparticle stability in dye-sensitized solar cell applications. <i>Journal of Colloid and Interface Science</i> , 2014, 427, 54-61.	9.4	24
81	Unintentional Bulk Doping of Polymer-Fullerene Blends from a Thin Interfacial Layer of MoO ₃ . <i>Advanced Energy Materials</i> , 2016, 6, 1600670.	19.5	24
82	Photoexcitations in Regio-regular and Regio-random Polythiophene Films. <i>Synthetic Metals</i> , 2003, 137, 1465-1468.	3.9	23
83	Double injection in organic bulk-heterojunction. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2858-2861.	3.1	23
84	Organic spin valves: effect of magnetic impurities on the spin transport properties of polymer spacers. <i>New Journal of Physics</i> , 2009, 11, 013022.	2.9	23
85	Ferromagnetism in indium tin-oxide (ITO) electrodes at room temperature. <i>Synthetic Metals</i> , 2010, 160, 303-306.	3.9	23
86	Enhanced Performance of Printed Organic Diodes Using a Thin Interfacial Barrier Layer. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 7-10.	8.0	23
87	Direct determination of doping concentration and built-in voltage from extraction current transients. <i>Organic Electronics</i> , 2014, 15, 3413-3420.	2.6	23
88	Single-Molecule Bioelectronic Label-free Assay of both Protein and Genomic Markers of Pancreatic Mucinous Cysts™ in Whole Blood Serum. <i>Advanced Electronic Materials</i> , 2021, 7, 2100304.	5.1	23
89	A study of charge transport in a novel electroluminescent poly(phenylene vinylene-co-fluorenylene) Tj ETQq1 1 0.784314 rgBTj/Overlock	2.6	22
90	2D and Trap-Assisted 2D Langevin Recombination in Polymer:Fullerene Blends. <i>Advanced Energy Materials</i> , 2015, 5, 1400890.	19.5	22

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91	Impact of a Doping-Induced Space-Charge Region on the Collection of Photogenerated Charge Carriers in Thin-Film Solar Cells Based on Low-Mobility Semiconductors. <i>Physical Review Applied</i> , 2019, 12, .	3.8	22
92	Revealing the Mechanism behind the Catastrophic Failure of n-i-p Type Perovskite Solar Cells under Operating Conditions and How to Suppress It. <i>Advanced Functional Materials</i> , 2021, 31, 2103820.	14.9	22
93	Charge transport in π -conjugated polymers from extraction current transients. <i>Thin Solid Films</i> , 2002, 403-404, 415-418.	1.8	20
94	Optical studies of excited-state relaxation in poly(9,9-dihexylfluorene-co-benzothiadiazole). <i>Physical Review B</i> , 2003, 67, .	3.2	20
95	Absence of substrate roughness effects on an all-printed organic transistor operating at one volt. <i>Applied Physics Letters</i> , 2008, 93, 053302.	3.3	20
96	Reducing Leakage Currents in n-Channel Organic Field-Effect Transistors Using Molecular Dipole Monolayers on Nanoscale Oxides. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7025-7032.	8.0	20
97	Investigation of Well-Defined Pinholes in TiO ₂ Electron Selective Layers Used in Planar Heterojunction Perovskite Solar Cells. <i>Nanomaterials</i> , 2020, 10, 181.	4.1	20
98	Effect of Imbalanced Charge Transport on the Interplay of Surface and Bulk Recombination in Organic Solar Cells. <i>Physical Review Applied</i> , 2019, 11, .	3.8	19
99	Beyond hydrophobicity: how F4-TCNQ doping of the hole transport material improves stability of mesoporous triple-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11721-11731.	10.3	19
100	A Novel Method to Orient Semiconducting Polymer Films. <i>Advanced Functional Materials</i> , 2005, 15, 1095-1099.	14.9	18
101	Photoinduced absorption in an alternating polyfluorene copolymer for photovoltaic applications. <i>Chemical Physics</i> , 2006, 321, 127-132.	1.9	18
102	Low-Voltage Organic Transistors Fabricated Using Reverse Gravure Coating on Prepatterned Substrates. <i>Advanced Engineering Materials</i> , 2008, 10, 640-643.	3.5	18
103	Hopping conduction in strong electric fields: Negative differential conductivity. <i>Physical Review B</i> , 2008, 78, .	3.2	18
104	Hysteretic magnetoresistance in polymeric diodes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 242-244.	2.4	18
105	Effect of 2-D Delocalization on Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1738-1745.	2.9	17
106	Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500333.	5.1	17
107	Experimentally Calibrated Kinetic Monte Carlo Model Reproduces Organic Solar Cell Current-Voltage Curve. <i>Solar Rrl</i> , 2020, 4, 2000029.	5.8	17
108	Environmentally Friendly Transistors and Circuits on Paper. <i>ChemPhysChem</i> , 2015, 16, 1286-1294.	2.1	16

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109	Dispersive and nondispersive recombination of photoexcitations in disordered organic solids. <i>Physical Review B</i> , 2004, 69, .	3.2	15
110	Role of diffusion in two-dimensional bimolecular recombination. <i>Applied Physics Letters</i> , 2010, 96, 213304.	3.3	15
111	Surface Plasmon Resonance Assay for Label-Free and Selective Detection of HIV-1 p24 Protein. <i>Biosensors</i> , 2021, 11, 180.	4.7	15
112	Separation of Fast and Slow Transport in Regiorandom Poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2003, 137, 1407-1408.	3.9	14
113	Multiple Fano effect in charge density wave systems. <i>Synthetic Metals</i> , 2004, 141, 179-183.	3.9	14
114	Controlling the turn-on-voltage in low-voltage Al ₂ O ₃ organic transistors with mixed self-assembled monolayers. <i>Synthetic Metals</i> , 2011, 161, 743-747.	3.9	14
115	Effect of a large hole reservoir on the charge transport in TiO ₂ /organic hybrid devices. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14186.	2.8	14
116	FTIR studies of charged photoexcitations in regio-regular and regio-random poly(3-alkylthiophene) films. <i>Synthetic Metals</i> , 2001, 116, 203-206.	3.9	13
117	Quantum efficiency and initial transport of photogenerated charge carriers in π -conjugated polymers. <i>Synthetic Metals</i> , 2003, 139, 811-813.	3.9	13
118	Recombination studies in a polyfluorene copolymer for photovoltaic applications. <i>Synthetic Metals</i> , 2005, 155, 299-302.	3.9	12
119	Effective temperature for hopping transport in a Gaussian DOS. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 722-724.	0.8	12
120	Ion-modulated transistors on paper using phase-separated semiconductor/insulator blends. <i>MRS Communications</i> , 2014, 4, 51-55.	1.8	12
121	Doping-induced carrier profiles in organic semiconductors determined from capacitive extraction-current transients. <i>Scientific Reports</i> , 2017, 7, 5397.	3.3	12
122	Determination of Charge-Carrier Mobility and Built-In Potential in Thin-Film Organic $M-I-M$ Diodes from Extraction-Current Transients. <i>Physical Review Applied</i> , 2018, 10, .	3.8	12
123	Influence of the Electric Potential on Charge Extraction and Interface Recombination in Perovskite Solar Cells. <i>Physical Review Applied</i> , 2021, 16, .	3.8	12
124	Versatile characterization of thiol-functionalized printed metal electrodes on flexible substrates for cheap diagnostic applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4391-4397.	2.4	11
125	Paper-supported nanostructured ultrathin gold film electrodes “ Characterization and functionalization. <i>Applied Surface Science</i> , 2015, 329, 321-329.	6.1	11
126	A large-area organic transistor with 3D-printed sensing gate for noninvasive single-molecule detection of pancreatic mucinous cyst markers. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5657-5669.	3.7	11

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127	Charge carrier transport and recombination in bulk-heterojunction solar-cells. , 2005, , .		10
128	Plasmon-Enhanced Polymer-Sensitized Solar Cells. Journal of Physical Chemistry C, 2015, 119, 5570-5576.	3.1	10
129	Nanoporous kaolinâ€”cellulose nanofibril composites for printed electronics. Flexible and Printed Electronics, 2017, 2, 024004.	2.7	10
130	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. Organic Electronics, 2020, 77, 105524.	2.6	10
131	Extraction Current Transients for Selective Charge-Carrier Mobility Determination in Non-Fullerene and Ternary Bulk Heterojunction Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 9190-9197.	5.1	10
132	Transport features of photogenerated and equilibrium charge carriers in thin PPV polymer layers. Proceedings of SPIE, 2001, , .	0.8	10
133	Surface modified high rectification organic diode based on sulfonated poly(aniline). Journal of Materials Chemistry, 2006, 16, 3014-3020.	6.7	9
134	Surface energy patterning for inkjet printing in device fabrication. , 2009, , .		9
135	Influence of equilibrium charge reservoir formation on photo generated charge transport in TiO ₂ /organic devices. Organic Electronics, 2014, 15, 3506-3513.	2.6	9
136	Comment on â€œMemory Effect and Negative Differential Resistance by Electrode-Induced Two-Dimensional Single-Electron Tunneling in Molecular and Organic Electronic Devicesâ€•. Advanced Materials, 2006, 18, 2805-2806.	21.0	8
137	Memory effect in an ionic liquid matrix containing single-walled carbon nanotubes and polystyrene. Nanotechnology, 2008, 19, 055203.	2.6	8
138	Nanotechnology in paper electronics. Nanotechnology, 2014, 25, 090201.	2.6	8
139	Charge transport in intercalated and non-intercalated polymer:fullerene blends. Synthetic Metals, 2015, 201, 6-10.	3.9	8
140	Direct Quantification of Quasi-Fermi-Level Splitting in Organic Semiconductor Devices. Physical Review Applied, 2021, 15, .	3.8	8
141	Time-of-flight measurements in Langmuir-Blodgett films of poly(3-hexylthiophene). , 1997, 3145, 389.		7
142	Features of charge carrier concentration and mobility inâ€”conjugated polymers. Macromolecular Symposia, 2004, 212, 209-218.	0.7	7
143	Roll-to-Roll Fabrication of Bulk Heterojunction Plastic Solar Cells using the Reverse Gravure Coating Technique. Materials Research Society Symposia Proceedings, 2008, 1091, 1.	0.1	7
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145	Printed biotin-functionalised polythiophene films as biorecognition layers in the development of paper-based biosensors. <i>Applied Surface Science</i> , 2016, 364, 477-483.	6.1	7
146	Large-scale Roll-to-Roll Patterned Oxygen Indicators for Modified Atmosphere Packages. <i>Packaging Technology and Science</i> , 2017, 30, 219-227.	2.8	7
147	Cross-Linking of Doped Organic Semiconductor Interlayers for Organic Solar Cells: Potential and Challenges. <i>ACS Applied Energy Materials</i> , 2021, 4, 14458-14466.	5.1	7
148	Nature and dynamics of photoexcited states in an electroluminescent poly(phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (vin Photobiology A: Chemistry, 2008, 199, 358-362.	3.9	6
149	Origin of equilibrium charges in poly(3-hexylthiophene):[6,6]-phenyl-C61-butyric acid methyl ester solar cell devices. <i>Chemical Physics</i> , 2012, 404, 60-63.	1.9	6
150	Voltage dependent displacement current as a tool to measure the vacuum level shift caused by self-assembled monolayers on aluminum oxide. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	6
151	Stability of environmentally friendly paper electronic devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2696-2701.	1.8	6
152	Generation of Photoexcitations and Trap-Assisted Recombination in TQ1:PC₇₁BM Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8211-8219.	3.1	6
153	Characterization of recombination in P3HT:fullerene blends: Clarifying the influence of interfacial states. <i>Organic Electronics</i> , 2017, 42, 131-140.	2.6	6
154	A low-cost paper-based platform for fast and reliable screening of cellular interactions with materials. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1146-1156.	5.8	6
155	Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. , 2006, , .		6
156	Insulators and device geometry in polymer field effect transistors. <i>Organic Electronics</i> , 2005, 6, 142-146.	2.6	5
157	Towards printed magnetic sensors based on organic diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2198-2201.	1.8	5
158	Method for characterizing bulk recombination using photoinduced absorption. <i>Journal of Applied Physics</i> , 2017, 121, 095701.	2.5	5
159	Electric field redistribution on light-emitting devices based on Langmuir-Blodgett films of a porphyrin derivative. <i>Solid State Communications</i> , 2001, 117, 223-228.	1.9	4
160	Recombination of electronic excitations in regioregular poly(3-dodecylthiophene). <i>Thin Solid Films</i> , 2002, 403-404, 510-512.	1.8	4
161	Effect of electric field on diffusion in disordered materials. <i>Annalen Der Physik</i> , 2009, 18, 856-862.	2.4	4
162	Large-scale Solution Processable Graphene-based Thin Film Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1407, 218.	0.1	4

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163	Effects of conjugated polymer on the magnetotransport properties in La _{0.7} Sr _{0.3} MnO ₃ ferromagnetic electrodes. <i>AIIP Advances</i> , 2013, 3, 042102.	1.3	4
164	Synthesis of electron beam cured free-standing ion-gel membranes for organic electronics applications. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2352-2360.	2.3	4
165	Characterization of the dominating bulk recombination in bulk-heterojunction blends using photoinduced absorption. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	4
166	Influence of titanium dioxide surface activation on the performance of mesoscopic perovskite solar cells. <i>Thin Solid Films</i> , 2019, 686, 137418.	1.8	4
167	Origin of Photocurrent in Poly(3-hexylthiophene). <i>Synthetic Metals</i> , 1999, 101, 581-582.	3.9	3
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