

# Ronald Å-sterbacka

## List of Publications by Year in descending order

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196  
papers

8,828  
citations

61857

43  
h-index

48187

88  
g-index

198  
all docs

198  
docs citations

198  
times ranked

9829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Interfaces for Single-Molecule Label-free Bioelectronic Detection. <i>Chemical Reviews</i> , 2022, 122, 4636-4699.	23.0	43
2	Role of Surface Coverage and Film Quality of the TiO <sub>2</sub> Electron Selective Layer for Optimal Hole-Blocking Properties. <i>ACS Omega</i> , 2022, 7, 11688-11695.	1.6	0
3	Flexible and printed electronics: a transition in leadershipâ€”reflecting on our successes and looking forward to the future. <i>Flexible and Printed Electronics</i> , 2022, 7, 010401.	1.5	0
4	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.	1.9	11
5	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.	5.2	19
6	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.	2.6	27
7	The 2021 flexible and printed electronics roadmap. <i>Flexible and Printed Electronics</i> , 2021, 6, 023001.	1.5	100
8	Singleâ€”Molecule Bioelectronic Labelâ€”Free Assay of both Protein and Genomic Markers of Pancreatic Mucinous Cystsâ€” in Whole Blood Serum. <i>Advanced Electronic Materials</i> , 2021, 7, 2100304.	2.6	23
9	Surface Plasmon Resonance Assay for Label-Free and Selective Detection of HIV-1 p24 Protein. <i>Biosensors</i> , 2021, 11, 180.	2.3	15
10	Direct Quantification of Quasi-Fermi-Level Splitting in Organic Semiconductor Devices. <i>Physical Review Applied</i> , 2021, 15, .	1.5	8
11	Influence of the Electric Potential on Charge Extraction and Interface Recombination in Perovskite Solar Cells. <i>Physical Review Applied</i> , 2021, 16, .	1.5	12
12	Revealing the Mechanism behind the Catastrophic Failure of nâ€”iâ€”p Type Perovskite Solar Cells under Operating Conditions and How to Suppress It. <i>Advanced Functional Materials</i> , 2021, 31, 2103820.	7.8	22
13	Synergetic effects of electrochemical oxidation of Spiro-OMeTAD and Li <sup>+</sup> ion migration for improving the performance of nâ€”iâ€”p type perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7575-7585.	5.2	50
14	Cross-Linking of Doped Organic Semiconductor Interlayers for Organic Solar Cells: Potential and Challenges. <i>ACS Applied Energy Materials</i> , 2021, 4, 14458-14466.	2.5	7
15	Ultimately Sensitive Organic Bioelectronic Transistor Sensors by Materials and Device Structure Design. <i>Advanced Functional Materials</i> , 2020, 30, 1904513.	7.8	97
16	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. <i>Organic Electronics</i> , 2020, 77, 105524.	1.4	10
17	Watching Space Charge Build Up in an Organic Solar Cell. <i>Solar Rrl</i> , 2020, 4, 1900505.	3.1	26
18	Extraction Current Transients for Selective Charge-Carrier Mobility Determination in Non-Fullerene and Ternary Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9190-9197.	2.5	10

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19	Printed, cost-effective and stable poly(3-hexylthiophene) electrolyte-gated field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15312-15321.	2.7	33
20	Organic Field-Effect Transistor Platform for Label-Free, Single-Molecule Detection of Genomic Biomarkers. <i>ACS Sensors</i> , 2020, 5, 1822-1830.	4.0	59
21	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.	2.9	6
22	About the amplification factors in organic bioelectronic sensors. <i>Materials Horizons</i> , 2020, 7, 999-1013.	6.4	86
23	Investigation of Well-Defined Pinholes in TiO <sub>2</sub> Electron Selective Layers Used in Planar Heterojunction Perovskite Solar Cells. <i>Nanomaterials</i> , 2020, 10, 181.	1.9	20
24	Experimentally Calibrated Kinetic Monte Carlo Model Reproduces Organic Solar Cell Current–Voltage Curve. <i>Solar Rrl</i> , 2020, 4, 2000029.	3.1	17
25	Influence of titanium dioxide surface activation on the performance of mesoscopic perovskite solar cells. <i>Thin Solid Films</i> , 2019, 686, 137418.	0.8	4
26	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, .	1.5	22
27	Effect of Imbalanced Charge Transport on the Interplay of Surface and Bulk Recombination in Organic Solar Cells. <i>Physical Review Applied</i> , 2019, 11, .	1.5	19
28	Phenothiazine-Based Hole-Transporting Materials toward Eco-friendly Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 3021-3027.	2.5	49
29	Determination of Charge-Carrier Mobility and Built-In Potential in Thin-Film Organic <i>M-I-M</i> Diodes from Extraction-Current Transients. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
30	Conductivity, interaction and solubility of hetero-bifunctional end-capped <i>1,2</i> -dihexylsubstituted sexithiophenes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46830.	1.3	1
31	Two-dimensional drift-diffusion study of mid-gap states and subsequent vacuum level shifts at interfaces in bulk-heterojunction solar cells. <i>Physical Review B</i> , 2018, 98, .	1.1	2
32	Effect of the depletion layer capacitance on the mobility determination using transient current extraction of doping-induced charge carriers. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	0.8	1
33	Large-Scale Roll-to-Roll Patterned Oxygen Indicators for Modified Atmosphere Packages. <i>Packaging Technology and Science</i> , 2017, 30, 219-227.	1.3	7
34	Nanoporous kaolin–cellulose nanofibril composites for printed electronics. <i>Flexible and Printed Electronics</i> , 2017, 2, 024004.	1.5	10
35	On the validity of MIS-CELIV for mobility determination in organic thin-film devices. <i>Applied Physics Letters</i> , 2017, 110, 153504.	1.5	36
36	Impact of Film Thickness of Ultrathin Dip-Coated Compact TiO <sub>2</sub> Layers on the Performance of Mesoscopic Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17906-17913.	4.0	36

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37	Voltage dependent reduction rates of graphene oxide in cell culture medium, deionized water, and an ionic liquid. <i>Organic Electronics</i> , 2017, 47, 66-71.	1.4	0
38	Method for characterizing bulk recombination using photoinduced absorption. <i>Journal of Applied Physics</i> , 2017, 121, 095701.	1.1	5
39	Generation of Photoexcitations and Trap-Assisted Recombination in TQ1:PC <sub>71</sub> BM Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8211-8219.	1.5	6
40	Characterization of recombination in P3HT:fullerene blends: Clarifying the influence of interfacial states. <i>Organic Electronics</i> , 2017, 42, 131-140.	1.4	6
41	Tailored Approaches in Drug Development and Diagnostics: From Molecular Design to Biological Model Systems. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700258.	3.9	38
42	Doping-induced carrier profiles in organic semiconductors determined from capacitive extraction-current transients. <i>Scientific Reports</i> , 2017, 7, 5397.	1.6	12
43	Determination of Surface Recombination Velocities at Contacts in Organic Semiconductor Devices Using Injected Carrier Reservoirs. <i>Physical Review Letters</i> , 2017, 118, 076601.	2.9	26
44	Minimizing structural deformation of gold nanorods in plasmon-enhanced dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	3
45	Influence of TiO <sub>2</sub> compact layer precursor on the performance of perovskite solar cells. <i>Organic Electronics</i> , 2017, 41, 287-293.	1.4	39
46	Unintentional Bulk Doping of Polymer-Fullerene Blends from a Thin Interfacial Layer of MoO <sub>3</sub> . <i>Advanced Energy Materials</i> , 2016, 6, 1600670.	10.2	24
47	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.	2.5	4
48	Characterization of the dominating bulk recombination in bulk-heterojunction blends using photoinduced absorption. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	4
49	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, .	1.5	90
50	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.	10.2	73
51	Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500333.	2.6	17
52	Printed biotin-functionalised polythiophene films as biorecognition layers in the development of paper-based biosensors. <i>Applied Surface Science</i> , 2016, 364, 477-483.	3.1	7
53	Effect of two-dimensional-Langevin and trap-assisted recombination on the device performance of organic solar cells. <i>Journal of Photonics for Energy</i> , 2016, 6, 014501.	0.8	0
54	Stability of environmentally friendly paper electronic devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2696-2701.	0.8	6

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55	Plasmon-Enhanced Polymer-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5570-5576.	1.5	10
56	Patterned Membrane as Substrate and Electrolyte in Depletion- and Enhancement Mode Ion-Modulated Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2015, 3, 58-66.	1.2	3
57	The effect of 2D-Langevin and trap-assisted recombination on the open circuit voltage in organic solar cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
58	Charge transport in intercalated and non-intercalated polymer:fullerene blends. <i>Synthetic Metals</i> , 2015, 201, 6-10.	2.1	8
59	Paper-supported nanostructured ultrathin gold film electrodes – Characterization and functionalization. <i>Applied Surface Science</i> , 2015, 329, 321-329.	3.1	11
60	Light-Emitting Paper. <i>Advanced Functional Materials</i> , 2015, 25, 3238-3245.	7.8	132
61	Environmentally Friendly Transistors and Circuits on Paper. <i>ChemPhysChem</i> , 2015, 16, 1286-1294.	1.0	16
62	Surface Functionalization of Ion-Sensitive Floating-Gate Field-Effect Transistors With Organic Electronics. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 1291-1298.	1.6	39
63	2D and Trap-Assisted 2D Langevin Recombination in Polymer:Fullerene Blends. <i>Advanced Energy Materials</i> , 2015, 5, 1400890.	10.2	22
64	Ion-modulated transistors on paper using phase-separated semiconductor/insulator blends. <i>MRS Communications</i> , 2014, 4, 51-55.	0.8	12
65	Cellulose-Based Ionogels for Paper Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 625-634.	7.8	158
66	Effect of Contacts in Organic Bulk Heterojunction Solar Cells. <i>Physical Review Applied</i> , 2014, 1, .	1.5	99
67	Nanotechnology in paper electronics. <i>Nanotechnology</i> , 2014, 25, 090201.	1.3	8
68	An impedimetric study of DNA hybridization on paper-supported inkjet-printed gold electrodes. <i>Nanotechnology</i> , 2014, 25, 094009.	1.3	30
69	Trap-Assisted Recombination via Integer Charge Transfer States in Organic Bulk Heterojunction Photovoltaics. <i>Advanced Functional Materials</i> , 2014, 24, 6309-6316.	7.8	70
70	Influence of equilibrium charge reservoir formation on photo generated charge transport in TiO <sub>2</sub> /organic devices. <i>Organic Electronics</i> , 2014, 15, 3506-3513.	1.4	9
71	Direct determination of doping concentration and built-in voltage from extraction current transients. <i>Organic Electronics</i> , 2014, 15, 3413-3420.	1.4	23
72	Printed environmentally friendly supercapacitors with ionic liquid electrolytes on paper. <i>Journal of Power Sources</i> , 2014, 271, 298-304.	4.0	42

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73	Impact of humidity on functionality of on-paper printed electronics. <i>Nanotechnology</i> , 2014, 25, 094003.	1.3	33
74	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.	5.0	24
75	Application of Paper-Supported Printed Gold Electrodes for Impedimetric Immunosensor Development. <i>Biosensors</i> , 2013, 3, 1-17.	2.3	34
76	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.	1.1	11
77	Printability of functional inks on multilayer curtain coated paper. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 68, 13-20.	1.8	28
78	Charge transport studies on novel PT-derivatives with hydrophilic anchoring groups. <i>Synthetic Metals</i> , 2013, 164, 60-63.	2.1	1
79	Reducing Leakage Currents in n-Channel Organic Field-Effect Transistors Using Molecular Dipole Monolayers on Nanoscale Oxides. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7025-7032.	4.0	20
80	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, .	1.5	6
81	Effects of conjugated polymer on the magnetotransport properties in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> ferromagnetic electrodes. <i>AIP Advances</i> , 2013, 3, 042102.	0.6	4
82	Large-scale Solution Processable Graphene-based Thin Film Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1407, 218.	0.1	4
83	Inkjet-printed silver nanoparticles on nano-engineered cellulose films for electrically conducting structures and organic transistors: concept and challenges. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	45
84	Origin of equilibrium charges in poly(3-hexylthiophene):[6,6]-phenyl-C <sub>61</sub> -butyric acid methyl ester solar cell devices. <i>Chemical Physics</i> , 2012, 404, 60-63.	0.9	6
85	Bimolecular Recombination in Regioregular and Regiorandom Poly(3-Hexylthiophene):PCBM Using Photoinduced Absorption Spectroscopy. <i>Energy Procedia</i> , 2012, 31, 21-25.	1.8	1
86	Influence of Surface Properties of Coated Papers on Printed Electronics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 6025-6036.	1.8	90
87	Effect of a large hole reservoir on the charge transport in TiO <sub>2</sub> /organic hybrid devices. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14186.	1.3	14
88	The Effect of Degradation on the Active Layer in APFO <sub>3</sub> : PCBM Solar Cells. <i>Energy Procedia</i> , 2012, 31, 26-30.	1.8	1
89	IR-sintering of ink-jet printed metal-nanoparticles on paper. <i>Thin Solid Films</i> , 2012, 520, 2949-2955.	0.8	144
90	A ring oscillator based on HIFETs. <i>Organic Electronics</i> , 2012, 13, 84-89.	1.4	3

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91	Low-Cost Hydrogen Sulfide Gas Sensor on Paper Substrates: Fabrication and Demonstration. IEEE Sensors Journal, 2012, 12, 1973-1978.	2.4	42
92	Enhanced Performance of Printed Organic Diodes Using a Thin Interfacial Barrier Layer. ACS Applied Materials & Interfaces, 2011, 3, 7-10.	4.0	23
93	Theory of exciton dissociation at the interface between a conjugated polymer and an electron acceptor. Physical Review B, 2011, 84, .	1.1	62
94	Controlling the turn-on-voltage in low-voltage Al <sub>2</sub> O <sub>3</sub> organic transistors with mixed self-assembled monolayers. Synthetic Metals, 2011, 161, 743-747.	2.1	14
95	Paper Electronics. Advanced Materials, 2011, 23, 1935-1961.	11.1	1,141
96	Spontaneous Charge Transfer and Dipole Formation at the Interface Between P3HT and PCBM. Advanced Energy Materials, 2011, 1, 792-797.	10.2	62
97	Low-cost hydrogen sulfide gas sensor on paper substrates; fabrication and demonstration. , 2011, , .		2
98	Effect of 2-D Delocalization on Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1738-1745.	1.9	17
99	The Effects of Moisture in Low-Voltage Organic Field-Effect Transistors Gated with a Hydrated Solid Electrolyte. Advanced Functional Materials, 2010, 20, 2605-2610.	7.8	25
100	Printed all-polymer electrochemical transistors on patterned ion conducting membranes. Organic Electronics, 2010, 11, 1207-1211.	1.4	29
101	Negative differential conductivity in the hopping transport model. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 613-616.	0.8	1
102	Ferromagnetism in indium tin-oxide (ITO) electrodes at room temperature. Synthetic Metals, 2010, 160, 303-306.	2.1	23
103	Role of diffusion in two-dimensional bimolecular recombination. Applied Physics Letters, 2010, 96, 213304.	1.5	15
104	Effect of electric field on diffusion in disordered materials. I. One-dimensional hopping transport. Physical Review B, 2010, 81, .	1.1	31
105	Role of electron-hole pair formation in organic magnetoresistance. Physical Review B, 2009, 79, .	1.1	56
106	Organic spin valves: effect of magnetic impurities on the spin transport properties of polymer spacers. New Journal of Physics, 2009, 11, 013022.	1.2	23
107	Surface energy patterning for inkjet printing in device fabrication. , 2009, , .		9
108	Effect of electric field on diffusion in disordered materials. Annalen Der Physik, 2009, 18, 856-862.	0.9	4

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109	Self-Supported Ion-Conductive Membrane-Based Transistors. <i>Advanced Materials</i> , 2009, 21, 2520-2523.	11.1	30
110	Towards printed magnetic sensors based on organic diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2198-2201.	0.8	5
111	A multilayer coated fiber-based substrate suitable for printed functionality. <i>Organic Electronics</i> , 2009, 10, 1020-1023.	1.4	123

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127	Memory effect in an ionic liquid matrix containing single-walled carbon nanotubes and polystyrene. <i>Nanotechnology</i> , 2008, 19, 055203.	1.3	8
128	Effective temperature for hopping transport in a Gaussian density of states. <i>Physical Review B</i> , 2008, 77, .	1.1	37
129	Tuning the electrical switching of polymer/fullerene nanocomposite thin film devices by control of morphology. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	64
130	Hopping conduction in strong electric fields: Negative differential conductivity. <i>Physical Review B</i> , 2008, 78, .	1.1	18
131	Absence of substrate roughness effects on an all-printed organic transistor operating at one volt. <i>Applied Physics Letters</i> , 2008, 93, 053302.	1.5	20
132	<title><math>\text{TiO}_2</math>-PHT interface influence to charge carrier photo generation and recombination</title>. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
133	Photoexcitation dynamics in an alternating polyfluorene copolymer. <i>Physical Review B</i> , 2007, 75, .	1.1	25
134	Double-injection current transients as a way of measuring transport in insulating organic films. <i>Journal of Applied Physics</i> , 2007, 101, 114505.	1.1	26
135	A study of charge transport in a novel electroluminescent poly(phenylene vinylene-co-fluorenylene) Tj ETQq1 1 0.784314 rgBJ, /Overl	1.4	22
136	A review of charge transport and recombination in polymer/fullerene organic solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2007, 15, 677-696.	4.4	515
137	Surface modified high rectification organic diode based on sulfonated poly(aniline). <i>Journal of Materials Chemistry</i> , 2006, 16, 3014-3020.	6.7	9
138	Application of regioregular polythiophene in spintronic devices: Effect of interface. <i>Applied Physics Letters</i> , 2006, 89, 122114.	1.5	158
139	Control of Self-Assembly by Charge-Transfer Complexation between C60Fullerene and Electron Donating Units of Block Copolymers. <i>Macromolecules</i> , 2006, 39, 7648-7653.	2.2	98
140	Comparing small molecules and polymer for future organic spin-valves. <i>Journal of Alloys and Compounds</i> , 2006, 423, 169-171.	2.8	78
141	Non-Langevin bimolecular recombination in low-mobility materials. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1167-1171.	1.5	106
142	Photoinduced absorption in an alternating polyfluorene copolymer for photovoltaic applications. <i>Chemical Physics</i> , 2006, 321, 127-132.	0.9	18
143	Charge carrier mobility and lifetime versus composition of conjugated polymer/fullerene bulk-heterojunction solar cells. <i>Organic Electronics</i> , 2006, 7, 229-234.	1.4	161
144	Recombination of photogenerated and injected charge carriers in $\pi$ -conjugated polymer/fullerene blends. <i>Thin Solid Films</i> , 2006, 511-512, 224-227.	0.8	40

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145	Comment on "Memory Effect and Negative Differential Resistance by Electrode-Induced Two-Dimensional Single-Electron Tunneling in Molecular and Organic Electronic Devices". <i>Advanced Materials</i> , 2006, 18, 2805-2806.	11.1	8
146	Charge-carrier transport and recombination in thin insulating films studied via extraction of injected plasma. <i>Physical Review B</i> , 2006, 74, .	1.1	43
147	Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. , 2006, , .		6
148	Insulators and device geometry in polymer field effect transistors. <i>Organic Electronics</i> , 2005, 6, 142-146.	1.4	5
149	Fullerene-based bistable devices and associated negative differential resistance effect. <i>Organic Electronics</i> , 2005, 6, 188-192.	1.4	91
150	Charge transport and recombination in bulk heterojunction solar cells studied by the photoinduced charge extraction in linearly increasing voltage technique. <i>Applied Physics Letters</i> , 2005, 86, 112104.	1.5	184
151	Charge carrier mobility in regioregular poly(3-hexylthiophene) probed by transient conductivity techniques: A comparative study. <i>Physical Review B</i> , 2005, 71, .	1.1	249
152	A Novel Method to Orient Semiconducting Polymer Films. <i>Advanced Functional Materials</i> , 2005, 15, 1095-1099.	7.8	18
153	Charge carrier transport and recombination in bulk-heterojunction solar-cells. , 2005, , .		10
154	Double injection as a technique to study charge carrier transport and recombination in bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2005, 87, 222110.	1.5	45
155	Bimolecular Recombination Coefficient as a Sensitive Testing Parameter for Low-Mobility Solar-Cell Materials. <i>Physical Review Letters</i> , 2005, 94, 176806.	2.9	297
156	Langevin recombination and space-charge-perturbed current transients in regiorandom poly(3-hexylthiophene). <i>Physical Review B</i> , 2005, 71, .	1.1	71
157	Operating principle of polymer insulator organic thin-film transistors exposed to moisture. <i>Journal of Applied Physics</i> , 2005, 98, 074504.	1.1	52
158	Towards all-polymer field-effect transistors with solution processable materials. <i>Synthetic Metals</i> , 2005, 148, 87-91.	2.1	33
159	Recombination studies in a polyfluorene copolymer for photovoltaic applications. <i>Synthetic Metals</i> , 2005, 155, 299-302.	2.1	12
160	Time-dependent Langevin-type bimolecular charge carrier recombination in regiorandom poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2005, 155, 242-245.	2.1	34
161	Applications of an all-polymer solution-processed high-performance, transistor. <i>Synthetic Metals</i> , 2005, 155, 662-665.	2.1	28
162	Charge recombination studies in polyfluorene:[6,6]-phenyl c 61 -butyric acid methyl ester blend photovoltaic cells. , 2004, 5215, 262.		1

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163	Features of charge carrier concentration and mobility in $\pi$ -conjugated polymers. <i>Macromolecular Symposia</i> , 2004, 212, 209-218.	0.4	7
164	Mobility and density relaxation of photogenerated charge carriers in organic materials. <i>Current Applied Physics</i> , 2004, 4, 534-538.	1.1	76
165	High-Performance All-Polymer Transistor Utilizing a Hygroscopic Insulator. <i>Advanced Materials</i> , 2004, 16, 1112-1115.	11.1	100
166	Current modulation of a hygroscopic insulator organic field-effect transistor. <i>Applied Physics Letters</i> , 2004, 85, 3887-3889.	1.5	41
167	Multiple Fano effect in charge density wave systems. <i>Synthetic Metals</i> , 2004, 141, 179-183.	2.1	14
168	Dispersive and nondispersive recombination of photoexcitations in disordered organic solids. <i>Physical Review B</i> , 2004, 69, .	1.1	15
169	Bimolecular recombination in regiorandom poly(3-hexylthiophene). <i>Chemical Physics</i> , 2003, 286, 315-320.	0.9	26
170	Recombination dynamics in regiorandom poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2003, 135-136, 321-322.	2.1	2
171	Separation of Fast and Slow Transport in Regiorandom Poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2003, 137, 1407-1408.	2.1	14
172	Photoexcitations in Regio-regular and Regio-random Polythiophene Films. <i>Synthetic Metals</i> , 2003, 137, 1465-1468.	2.1	23
173	Quantum efficiency and initial transport of photogenerated charge carriers in $\pi$ -conjugated polymers. <i>Synthetic Metals</i> , 2003, 139, 811-813.	2.1	13
174	Optical characterization using ms transient photoinduced absorption in poly(9,9-dihexylfluorene-co-benzothiadiazole). <i>Synthetic Metals</i> , 2003, 139, 843-845.	2.1	3
175	Synthesis and optical properties of a novel polyfluorene derivative. <i>Synthetic Metals</i> , 2003, 139, 491-495.	2.1	2
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