

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	Paper Electronics. <i>Advanced Materials</i> , 2011, 23, 1935-1961.	11.1	1,141
2	Two-Dimensional Electronic Excitations in Self-Assembled Conjugated Polymer Nanocrystals. <i>Science</i> , 2000, 287, 839-842.	6.0	619
3	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
4	Spectroscopic Studies of Photoexcitations in Regioregular and Regiorandom Polythiophene Films. <i>Advanced Functional Materials</i> , 2002, 12, 587-597.	7.8	314
5	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
6	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
7	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
8	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
9	Charge transport in π -conjugated polymers from extraction current transients. <i>Physical Review B</i> , 2000, 62, R16235-R16238.	1.1	158
10	Application of regioregular polythiophene in spintronic devices: Effect of interface. <i>Applied Physics Letters</i> , 2006, 89, 122114.	1.5	158
11	Cellulose-Based Ionogels for Paper Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 625-634.	7.8	158
12	IR-sintering of ink-jet printed metal-nanoparticles on paper. <i>Thin Solid Films</i> , 2012, 520, 2949-2955.	0.8	144
13	Light-Emitting Paper. <i>Advanced Functional Materials</i> , 2015, 25, 3238-3245.	7.8	132
14	A multilayer coated fiber-based substrate suitable for printed functionality. <i>Organic Electronics</i> , 2009, 10, 1020-1023.	1.4	123
15	Non-Langevin bimolecular recombination in low-mobility materials. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1167-1171.	1.5	106
16	High-Performance All-Polymer Transistor Utilizing a Hygroscopic Insulator. <i>Advanced Materials</i> , 2004, 16, 1112-1115.	11.1	100
17	The 2021 flexible and printed electronics roadmap. <i>Flexible and Printed Electronics</i> , 2021, 6, 023001.	1.5	100
18	Effect of Contacts in Organic Bulk Heterojunction Solar Cells. <i>Physical Review Applied</i> , 2014, 1, .	1.5	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.	2.2	98
20	Ultimately Sensitive Organic Bioelectronic Transistor Sensors by Materials and Device Structure Design. <i>Advanced Functional Materials</i> , 2020, 30, 1904513.	7.8	97
21	Fullerene-based bistable devices and associated negative differential resistance effect. <i>Organic Electronics</i> , 2005, 6, 188-192.	1.4	91
22	Influence of Surface Properties of Coated Papers on Printed Electronics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6025-6036.	1.8	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, .	1.5	90
24	About the amplification factors in organic bioelectronic sensors. <i>Materials Horizons</i> , 2020, 7, 999-1013.	6.4	86
25	Comparing small molecules and polymer for future organic spin-valves. <i>Journal of Alloys and Compounds</i> , 2006, 423, 169-171.	2.8	78
26	Mobility and density relaxation of photogenerated charge carriers in organic materials. <i>Current Applied Physics</i> , 2004, 4, 534-538.	1.1	76
27	All-printed low-voltage organic transistors. <i>Organic Electronics</i> , 2008, 9, 931-935.	1.4	76
28	Excitons, polarons, and laser action in poly(p-phenylene vinylene) films. <i>Journal of Chemical Physics</i> , 2003, 118, 8905-8916.	1.2	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.	10.2	73
30	Langevin recombination and space-charge-perturbed current transients in regiorandom poly(3-hexylthiophene). <i>Physical Review B</i> , 2005, 71, .	1.1	71
31	Two dimensional Langevin recombination in regioregular poly(3-hexylthiophene). <i>Applied Physics Letters</i> , 2009, 95, 013303.	1.5	70
32	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
33	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
34	Theory of exciton dissociation at the interface between a conjugated polymer and an electron acceptor. <i>Physical Review B</i> , 2011, 84, .	1.1	62
35	Spontaneous Charge Transfer and Dipole Formation at the Interface Between P3HT and PCBM. <i>Advanced Energy Materials</i> , 2011, 1, 792-797.	10.2	62
36	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

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37	Role of electron-hole pair formation in organic magnetoresistance. <i>Physical Review B</i> , 2009, 79, .	1.1	56
38	Operating principle of polymer insulator organic thin-film transistors exposed to moisture. <i>Journal of Applied Physics</i> , 2005, 98, 074504.	1.1	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. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7575-7585.	5.2	50
40	Phenothiazine-Based Hole-Transporting Materials toward Eco-friendly Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 3021-3027.	2.5	49
41	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
42	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
43	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
44	Large-Area Interfaces for Single-Molecule Label-free Bioelectronic Detection. <i>Chemical Reviews</i> , 2022, 122, 4636-4699.	23.0	43
45	Electrochemical fabrication of a nonvolatile memory device based on polyaniline and gold particles. <i>Journal of Materials Chemistry</i> , 2008, 18, 1853.	6.7	42
46	Low-Cost Hydrogen Sulfide Gas Sensor on Paper Substrates: Fabrication and Demonstration. <i>IEEE Sensors Journal</i> , 2012, 12, 1973-1978.	2.4	42
47	Printed environmentally friendly supercapacitors with ionic liquid electrolytes on paper. <i>Journal of Power Sources</i> , 2014, 271, 298-304.	4.0	42
48	Current modulation of a hygroscopic insulator organic field-effect transistor. <i>Applied Physics Letters</i> , 2004, 85, 3887-3889.	1.5	41
49	Time-of-flight measurements in thin films of regioregular poly(3-hexyl thiophene). <i>Synthetic Metals</i> , 2000, 109, 173-176.	2.1	40
50	Recombination of photogenerated and injected charge carriers in π -conjugated polymer/fullerene blends. <i>Thin Solid Films</i> , 2006, 511-512, 224-227.	0.8	40
51	Organic memory using [6,6]-phenyl-C61butyric acid methyl ester: morphology, thickness and concentration dependence studies. <i>Nanotechnology</i> , 2008, 19, 035203.	1.3	39
52	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
53	Influence of TiO ₂ compact layer precursor on the performance of perovskite solar cells. <i>Organic Electronics</i> , 2017, 41, 287-293.	1.4	39
54	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

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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.	0.9	37
56	Effective temperature for hopping transport in a Gaussian density of states. <i>Physical Review B</i> , 2008, 77, .	1.1	37
57	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
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.	4.0	36
59	Delocalized polarons in self-assembled poly(3-hexyl thiophene) nanocrystals. <i>Synthetic Metals</i> , 2001, 116, 317-320.	2.1	34
60	Time-dependent Langevin-type bimolecular charge carrier recombination in regiorandom poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2005, 155, 242-245.	2.1	34
61	Application of Paper-Supported Printed Gold Electrodes for Impedimetric Immunosensor Development. <i>Biosensors</i> , 2013, 3, 1-17.	2.3	34
62	Towards all-polymer field-effect transistors with solution processable materials. <i>Synthetic Metals</i> , 2005, 148, 87-91.	2.1	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.	1.1	33
64	Impact of humidity on functionality of on-paper printed electronics. <i>Nanotechnology</i> , 2014, 25, 094003.	1.3	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.	2.7	33
66	Effect of electric field on diffusion in disordered materials. I. One-dimensional hopping transport. <i>Physical Review B</i> , 2010, 81, .	1.1	31
67	Self-Supported Ion-Conductive Membrane-Based Transistors. <i>Advanced Materials</i> , 2009, 21, 2520-2523.	11.1	30
68	An impedimetric study of DNA hybridization on paper-supported inkjet-printed gold electrodes. <i>Nanotechnology</i> , 2014, 25, 094009.	1.3	30
69	Printed all-polymer electrochemical transistors on patterned ion conducting membranes. <i>Organic Electronics</i> , 2010, 11, 1207-1211.	1.4	29
70	Applications of an all-polymer solution-processed high-performance, transistor. <i>Synthetic Metals</i> , 2005, 155, 662-665.	2.1	28
71	Printability of functional inks on multilayer curtain coated paper. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 68, 13-20.	1.8	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.	1.9	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.	2.6	27
74	Bimolecular recombination in regiorandom poly(3-hexylthiophene). <i>Chemical Physics</i> , 2003, 286, 315-320.	0.9	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.	1.1	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.	2.9	26
77	Watching Space Charge Build Up in an Organic Solar Cell. <i>Solar Rrl</i> , 2020, 4, 1900505.	3.1	26
78	Photoexcitation dynamics in an alternating polyfluorene copolymer. <i>Physical Review B</i> , 2007, 75, .	1.1	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.	7.8	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.	5.0	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.	10.2	24
82	Photoexcitations in Regio-regular and Regio-random Polythiophene Films. <i>Synthetic Metals</i> , 2003, 137, 1465-1468.	2.1	23
83	Double injection in organic bulk-heterojunction. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2858-2861.	1.5	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.	1.2	23
85	Ferromagnetism in indium tin-oxide (ITO) electrodes at room temperature. <i>Synthetic Metals</i> , 2010, 160, 303-306.	2.1	23
86	Enhanced Performance of Printed Organic Diodes Using a Thin Interfacial Barrier Layer. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 7-10.	4.0	23
87	Direct determination of doping concentration and built-in voltage from extraction current transients. <i>Organic Electronics</i> , 2014, 15, 3413-3420.	1.4	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.	2.6	23
89	A study of charge transport in a novel electroluminescent poly(phenylene vinylene-co-fluorenylene) Tj ETQq1 1 0.784314 rgBTJ/Overl	1.4	22
90	2D and Trap-Assisted 2D Langevin Recombination in Polymer:Fullerene Blends. <i>Advanced Energy Materials</i> , 2015, 5, 1400890.	10.2	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, .	1.5	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.	7.8	22
93	Charge transport in π -conjugated polymers from extraction current transients. <i>Thin Solid Films</i> , 2002, 403-404, 415-418.	0.8	20
94	Optical studies of excited-state relaxation in poly(9,9-dihexylfluorene-co-benzothiadiazole). <i>Physical Review B</i> , 2003, 67, .	1.1	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.	1.5	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.	4.0	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.	1.9	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, .	1.5	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.	5.2	19
100	A Novel Method to Orient Semiconducting Polymer Films. <i>Advanced Functional Materials</i> , 2005, 15, 1095-1099.	7.8	18
101	Photoinduced absorption in an alternating polyfluorene copolymer for photovoltaic applications. <i>Chemical Physics</i> , 2006, 321, 127-132.	0.9	18
102	Low-Voltage Organic Transistors Fabricated Using Reverse Gravure Coating on Prepatterned Substrates. <i>Advanced Engineering Materials</i> , 2008, 10, 640-643.	1.6	18
103	Hopping conduction in strong electric fields: Negative differential conductivity. <i>Physical Review B</i> , 2008, 78, .	1.1	18
104	Hysteretic magnetoresistance in polymeric diodes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 242-244.	1.2	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.	1.9	17
106	Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500333.	2.6	17
107	Experimentally Calibrated Kinetic Monte Carlo Model Reproduces Organic Solar Cell Current-Voltage Curve. <i>Solar Rrl</i> , 2020, 4, 2000029.	3.1	17
108	Environmentally Friendly Transistors and Circuits on Paper. <i>ChemPhysChem</i> , 2015, 16, 1286-1294.	1.0	16

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109	Dispersive and nondispersive recombination of photoexcitations in disordered organic solids. <i>Physical Review B</i> , 2004, 69, .	1.1	15
110	Role of diffusion in two-dimensional bimolecular recombination. <i>Applied Physics Letters</i> , 2010, 96, 213304.	1.5	15
111	Surface Plasmon Resonance Assay for Label-Free and Selective Detection of HIV-1 p24 Protein. <i>Biosensors</i> , 2021, 11, 180.	2.3	15
112	Separation of Fast and Slow Transport in Regiorandom Poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2003, 137, 1407-1408.	2.1	14
113	Multiple Fano effect in charge density wave systems. <i>Synthetic Metals</i> , 2004, 141, 179-183.	2.1	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.	2.1	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.	1.3	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.	2.1	13
117	Quantum efficiency and initial transport of photogenerated charge carriers in π -conjugated polymers. <i>Synthetic Metals</i> , 2003, 139, 811-813.	2.1	13
118	Recombination studies in a polyfluorene copolymer for photovoltaic applications. <i>Synthetic Metals</i> , 2005, 155, 299-302.	2.1	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.	0.8	12
121	Doping-induced carrier profiles in organic semiconductors determined from capacitive extraction-current transients. <i>Scientific Reports</i> , 2017, 7, 5397.	1.6	12
122	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
123	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
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.	1.1	11
125	Paper-supported nanostructured ultrathin gold film electrodes " Characterization and functionalization. <i>Applied Surface Science</i> , 2015, 329, 321-329.	3.1	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.	1.9	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.	1.5	10
129	Nanoporous kaolinâ€™ cellulose nanofibril composites for printed electronics. Flexible and Printed Electronics, 2017, 2, 024004.	1.5	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.	1.4	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.	2.5	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.	1.4	9
136	Comment on â€™Memory 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.	11.1	8
137	Memory effect in an ionic liquid matrix containing single-walled carbon nanotubes and polystyrene. Nanotechnology, 2008, 19, 055203.	1.3	8
138	Nanotechnology in paper electronics. Nanotechnology, 2014, 25, 090201.	1.3	8
139	Charge transport in intercalated and non-intercalated polymer:fullerene blends. Synthetic Metals, 2015, 201, 6-10.	2.1	8
140	Direct Quantification of Quasi-Fermi-Level Splitting in Organic Semiconductor Devices. Physical Review Applied, 2021, 15, .	1.5	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.	0.4	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.	3.1	7
146	Large-scale Roll-to-Roll Patterned Oxygen Indicators for Modified Atmosphere Packages. <i>Packaging Technology and Science</i> , 2017, 30, 219-227.	1.3	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.	2.5	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.	2.0	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.	0.9	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, .	1.5	6
151	Stability of environmentally friendly paper electronic devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2696-2701.	0.8	6
152	Generation of Photoexcitations and Trap-Assisted Recombination in TQ1:PC₇₁BM Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8211-8219.	1.5	6
153	Characterization of recombination in P3HT:fullerene blends: Clarifying the influence of interfacial states. <i>Organic Electronics</i> , 2017, 42, 131-140.	1.4	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.	2.9	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.	1.4	5
157	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
158	Method for characterizing bulk recombination using photoinduced absorption. <i>Journal of Applied Physics</i> , 2017, 121, 095701.	1.1	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.	0.9	4
160	Recombination of electronic excitations in regioregular poly(3-dodecylthiophene). <i>Thin Solid Films</i> , 2002, 403-404, 510-512.	0.8	4
161	Effect of electric field on diffusion in disordered materials. <i>Annalen Der Physik</i> , 2009, 18, 856-862.	0.9	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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