

RenÃ© Aj Janssen

List of Publications by Year in descending order

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595
papers

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605
all docs

605
docs citations

605
times ranked

31588
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional charge transport in self-organized, high-mobility conjugated polymers. <i>Nature</i> , 1999, 401, 685-688.	13.7	4,364
2	Nanoscale Morphology of High-Performance Polymer Solar Cells. <i>Nano Letters</i> , 2005, 5, 579-583.	4.5	1,499
3	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3371-3375.	7.2	1,089
4	Materials interface engineering for solution-processed photovoltaics. <i>Nature</i> , 2012, 488, 304-312.	13.7	1,000
5	The Energy of Charge Transfer States in Electron Donor-Acceptor Blends: Insight into the Energy Losses in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2009, 19, 1939-1948.	7.8	907
6	Efficient Hybrid Solar Cells from Zinc Oxide Nanoparticles and a Conjugated Polymer. <i>Advanced Materials</i> , 2004, 16, 1009-1013.	11.1	891
7	Thieno[3,2- <i>b</i>]thiophene-Diketopyrrolopyrrole-Containing Polymers for High-Performance Organic Field-Effect Transistors and Organic Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , 2011, 133, 3272-3275.	6.6	854
8	Hybrid Zinc Oxide Conjugated Polymer Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9505-9516.	1.2	842
9	Poly(diketopyrrolopyrrole-terthiophene) for Ambipolar Logic and Photovoltaics. <i>Journal of the American Chemical Society</i> , 2009, 131, 16616-16617.	6.6	721
10	Narrow-Bandgap Diketopyrrolopyrrole Polymer Solar Cells: The Effect of Processing on the Performance. <i>Advanced Materials</i> , 2008, 20, 2556-2560.	11.1	671
11	Relating the Morphology of Poly(<i>p</i> -phenylene vinylene)/Methanofullerene Blends to Solar-Cell Performance. <i>Advanced Functional Materials</i> , 2004, 14, 425-434.	7.8	635
12	Conductivity, work function, and environmental stability of PEDOT:PSS thin films treated with sorbitol. <i>Organic Electronics</i> , 2008, 9, 727-734.	1.4	609
13	Electron Transport in a Methanofullerene. <i>Advanced Functional Materials</i> , 2003, 13, 43-46.	7.8	600
14	Factors Limiting Device Efficiency in Organic Photovoltaics. <i>Advanced Materials</i> , 2013, 25, 1847-1858.	11.1	550
15	Hybrid Solar Cells from Regioregular Polythiophene and ZnO Nanoparticles. <i>Advanced Functional Materials</i> , 2006, 16, 1112-1116.	7.8	547
16	Compositional and Electric Field Dependence of the Dissociation of Charge Transfer Excitons in Alternating Polyfluorene Copolymer/Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2008, 130, 7721-7735.	6.6	544
17	A Low-Bandgap Semiconducting Polymer for Photovoltaic Devices and Infrared Emitting Diodes. <i>Advanced Functional Materials</i> , 2002, 12, 709-712.	7.8	517
18	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. <i>Nature Materials</i> , 2009, 8, 818-824.	13.3	511

#	ARTICLE	IF	CITATIONS
19	Efficient Tandem and Triple-Junction Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 5529-5532.	6.6	498
20	Microscopic Understanding of the Anisotropic Conductivity of PEDOT:PSS Thin Films. <i>Advanced Materials</i> , 2007, 19, 1196-1200.	11.1	482
21	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015, 9, 9380-9393.	7.3	451
22	Circularly Polarized Electroluminescence from a Polymer Light-Emitting Diode. <i>Journal of the American Chemical Society</i> , 1997, 119, 9909-9910.	6.6	438
23	Deep Absorbing Porphyrin Small Molecule for High-Performance Organic Solar Cells with Very Low Energy Losses. <i>Journal of the American Chemical Society</i> , 2015, 137, 7282-7285.	6.6	436
24	Diketopyrrolopyrrole Polymers for Organic Solar Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 78-85.	7.6	435
25	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. <i>Journal of the American Chemical Society</i> , 2016, 138, 10935-10944.	6.6	401
26	Supramolecular p ⁿ -Heterojunctions by Co-Self-Organization of Oligo(p-phenylene Vinylene) and Perylene Bisimide Dyes. <i>Journal of the American Chemical Society</i> , 2004, 126, 10611-10618.	6.6	400
27	High-Molecular-Weight Regular Alternating Diketopyrrolopyrrole-based Terpolymers for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8341-8344.	7.2	398
28	Compositional Dependence of the Performance of Poly(p-phenylene vinylene):Methanofullerene Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2005, 15, 795-801.	7.8	383
29	High Quantum Efficiencies in Polymer Solar Cells at Energy Losses below 0.6 eV. <i>Journal of the American Chemical Society</i> , 2015, 137, 2231-2234.	6.6	365
30	Efficient Solar Cells Based on an Easily Accessible Diketopyrrolopyrrole Polymer. <i>Advanced Materials</i> , 2010, 22, E242-6.	11.1	358
31	The use of ZnO as optical spacer in polymer solar cells: Theoretical and experimental study. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	341
32	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. <i>Macromolecules</i> , 2004, 37, 2151-2158.	2.2	339
33	A Morphological Model for the Solvent-Enhanced Conductivity of PEDOT:PSS Thin Films. <i>Advanced Functional Materials</i> , 2008, 18, 865-871.	7.8	333
34	Double and triple junction polymer solar cells processed from solution. <i>Applied Physics Letters</i> , 2007, 90, 143512.	1.5	329
35	Quantifying Bimolecular Recombination Losses in Organic Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2011, 23, 1670-1674.	11.1	328
36	Spectroscopic Studies of Photoexcitations in Regioregular and Regiorandom Polythiophene Films. <i>Advanced Functional Materials</i> , 2002, 12, 587-597.	7.8	314

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37	Universal Correlation between Fibril Width and Quantum Efficiency in Diketopyrrolopyrrole-Based Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 18942-18948.	6.6	305
38	Multicomponent semiconducting polymer systems with low crystallization-induced percolation threshold. <i>Nature Materials</i> , 2006, 5, 950-956.	13.3	302
39	Efficient Small Bandgap Polymer Solar Cells with High Fill Factors for 300 nm Thick Films. <i>Advanced Materials</i> , 2013, 25, 3182-3186.	11.1	295
40	A real-time study of the benefits of co-solvents in polymer solar cell processing. <i>Nature Communications</i> , 2015, 6, 6229.	5.8	287
41	Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly{3,4-di[(S)-2-methylbutoxy]thiophene}. <i>Journal of the American Chemical Society</i> , 1996, 118, 4908-4909.	6.6	279
42	Predicting Morphologies of Solution Processed Polymer:Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2013, 135, 12057-12067.	6.6	274
43	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 395-403.	5.2	272
44	Solution-Processed Organic Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2006, 16, 1897-1903.	7.8	265
45	Photoinduced Electron Transfer and Photovoltaic Response of a MDMO-PPV:TiO ₂ Bulk-Heterojunction. <i>Advanced Materials</i> , 2003, 15, 118-121.	11.1	260
46	Small-Bandgap Semiconducting Polymers with High Near-Infrared Photoresponse. <i>Journal of the American Chemical Society</i> , 2014, 136, 12130-12136.	6.6	259
47	Enhancing the Photocurrent in Diketopyrrolopyrrole-Based Polymer Solar Cells via Energy Level Control. <i>Journal of the American Chemical Society</i> , 2012, 134, 13787-13795.	6.6	258
48	Two-Dimensional Crystals of Poly(3-Alkyl- thiophene)s: Direct Visualization of Polymer Folds in Submolecular Resolution. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2679-2684.	7.2	257
49	Photoinduced Electron Transfer and Photovoltaic Devices of a Conjugated Polymer with Pendant Fullerenes. <i>Journal of the American Chemical Society</i> , 2001, 123, 6714-6715.	6.6	247
50	Polymer Solar Cells with Diketopyrrolopyrrole Conjugated Polymers as the Electron Donor and Electron Acceptor. <i>Advanced Materials</i> , 2014, 26, 3304-3309.	11.1	245
51	Redox States of Long Oligothiophenes: Two Polarons on a Single Chain. <i>Chemistry - A European Journal</i> , 1998, 4, 1509-1522.	1.7	242
52	Synthesis, Photophysical Properties, and Photovoltaic Devices of Oligo(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (vinyl	1.2	242
53	Organic Photodetectors and their Application in Large Area and Flexible Image Sensors: The Role of Dark Current. <i>Advanced Functional Materials</i> , 2020, 30, 1904205.	7.8	242
54	Influence of Chain Length and Derivatization on the Lowest Singlet and Triplet States and Intersystem Crossing in Oligothiophenes. <i>Journal of the American Chemical Society</i> , 1996, 118, 6453-6461.	6.6	237

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55	Solution-Processed Bulk-Heterojunction Solar Cells Based on Monodisperse Dendritic Oligothiophenes. <i>Advanced Functional Materials</i> , 2008, 18, 3323-3331.	7.8	234
56	The Effect of H ₂ O and J ₀ Aggregation on the Photophysical and Photovoltaic Properties of Small Thiophene-Pyridine-DPP Molecules for Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1605779.	7.8	234
57	A Unifying Model for the Operation of Light-Emitting Electrochemical Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 13776-13781.	6.6	232
58	Functionalized 3D Oligothiophene Dendrons and Dendrimers—Novel Macromolecules for Organic Electronics. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1679-1683.	7.2	230
59	Optimizing Polymer Tandem Solar Cells. <i>Advanced Materials</i> , 2010, 22, E67-71.	11.1	221
60	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. <i>Journal of the American Chemical Society</i> , 2018, 140, 8934-8943.	6.6	218
61	Effect of the Fibrillar Microstructure on the Efficiency of High Molecular Weight Diketopyrrolopyrrole-Based Polymer Solar Cells. <i>Advanced Materials</i> , 2014, 26, 1565-1570.	11.1	207
62	On the origin of optical activity in polythiophenes. <i>Journal of Molecular Structure</i> , 2000, 521, 285-301.	1.8	206
63	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1968-1977.	3.0	205
64	Hybrid Solar Cells Using a Zinc Oxide Precursor and a Conjugated Polymer. <i>Advanced Functional Materials</i> , 2005, 15, 1703-1707.	7.8	202
65	Tough, Semiconducting Polyethylene-poly(3-hexylthiophene) Diblock Copolymers. <i>Advanced Functional Materials</i> , 2007, 17, 2674-2679.	7.8	201
66	9.0% power conversion efficiency from ternary all-polymer solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 2212-2221.	15.6	200
67	Alternating Oligo(p-phenylene vinylene)-Perylene Bisimide Copolymers: Synthesis, Photophysics, and Photovoltaic Properties of a New Class of Donor-Acceptor Materials. <i>Journal of the American Chemical Society</i> , 2003, 125, 8625-8638.	6.6	195
68	Anisotropic hopping conduction in spin-coated PEDOT:PSS thin films. <i>Physical Review B</i> , 2007, 76, .	1.1	193
69	Low-band gap poly(di-2-thienylthienopyrazine):fullerene solar cells. <i>Applied Physics Letters</i> , 2006, 88, 153511.	1.5	191
70	Red, green, and blue quantum dot LEDs with solution processable ZnO nanocrystal electron injection layers. <i>Journal of Materials Chemistry</i> , 2008, 18, 1889.	6.7	183
71	Homocoupling Defects in Diketopyrrolopyrrole-Based Copolymers and Their Effect on Photovoltaic Performance. <i>Journal of the American Chemical Society</i> , 2014, 136, 11128-11133.	6.6	174
72	Optical and Redox Properties of a Series of 3,4-Ethylenedioxythiophene Oligomers. <i>Chemistry - A European Journal</i> , 2002, 8, 2384.	1.7	172

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73	Polymer- Fullerene Bulk Heterojunction Solar Cells. MRS Bulletin, 2005, 30, 33-36.	1.7	171
74	Influence of Intermolecular Orientation on the Photoinduced Charge Transfer Kinetics in Self-Assembled Aggregates of Donor-Acceptor Arrays. Journal of the American Chemical Society, 2006, 128, 649-657.	6.6	171
75	Highly Luminescent CdTe/CdSe Colloidal Heteronanocrystals with Temperature-Dependent Emission Color. Journal of the American Chemical Society, 2007, 129, 14880-14886.	6.6	167
76	Solution Processed Polymer Tandem Solar Cell Using Efficient Small and Wide bandgap Polymer:Fullerene Blends. Advanced Materials, 2012, 24, 2130-2134.	11.1	167
77	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. Angewandte Chemie, 2003, 115, 3493-3497.	1.6	156
78	Crystalline-Crystalline Block Copolymers of Regioregular Poly(3-hexylthiophene) and Polyethylene by Ring-Opening Metathesis Polymerization. Journal of the American Chemical Society, 2005, 127, 12502-12503.	6.6	155
79	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. Advanced Materials, 2016, 28, 943-950.	11.1	155
80	Small band gap polymers based on diketopyrrolopyrrole. Journal of Materials Chemistry, 2010, 20, 2240.	6.7	152
81	Triplet-State photoexcitations of oligothiophene films and solutions. Journal of Chemical Physics, 1994, 101, 1787-1798.	1.2	151
82	Selective oxidation of benzene to phenol with nitrous oxide over MFI zeolites. On the role of iron and aluminum. Journal of Catalysis, 2005, 233, 123-135.	3.1	151
83	Improved Film Morphology Reduces Charge Carrier Recombination into the Triplet Excited State in a Small Bandgap Polymer- Fullerene Photovoltaic Cell. Advanced Materials, 2010, 22, 4321-4324.	11.1	151
84	A Polystyrene-Oligothiophene-Polystyrene Triblock Copolymer. Journal of the American Chemical Society, 1998, 120, 2798-2804.	6.6	150
85	Inversion of Optical Activity of Chiral Polythiophene Aggregates by a Change of Solvent. Macromolecules, 1998, 31, 6702-6704.	2.2	150
86	Principles of "Majority Rules" and "Sergeants and Soldiers" Applied to the Aggregation of Optically Active Polythiophenes: Evidence for a Multichain Phenomenon. Macromolecules, 1999, 32, 227-230.	2.2	150
87	Small band gap copolymers based on furan and diketopyrrolopyrrole for field-effect transistors and photovoltaic cells. Journal of Materials Chemistry, 2011, 21, 1600-1606.	6.7	148
88	Photoinduced Energy and Electron Transfer in Fullerene-Oligothiophene-Fullerene Triads. Journal of Physical Chemistry A, 2000, 104, 5974-5988.	1.1	146
89	Copolymers of Cyclopentadithiophene and Electron-Deficient Aromatic Units Designed for Photovoltaic Applications. Advanced Functional Materials, 2009, 19, 3262-3270.	7.8	146
90	Advances in Solution-Processed Multijunction Organic Solar Cells. Advanced Materials, 2019, 31, e1806499.	11.1	146

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91	Absence of Strong Gate Effects in Electrical Measurements on Phenylene-Based Conjugated Molecules. Nano Letters, 2003, 3, 113-117.	4.5	145
92	Photoinduced Electron Transfer from Conjugated Polymers to TiO ₂ . Journal of Physical Chemistry B, 1999, 103, 4352-4359.	1.2	142
93	Hybrid polymer solar cells based on zinc oxide. Journal of Materials Chemistry, 2005, 15, 2985.	6.7	141
94	Charge Trapping at the Dielectric of Organic Transistors Visualized in Real Time and Space. Advanced Materials, 2008, 20, 975-979.	11.1	141
95	Characterization of polymer solar cells by TOF-SIMS depth profiling. Applied Surface Science, 2003, 203-204, 547-550.	3.1	140
96	Chiroptical Properties of Regioregular Chiral Polythiophenes. Molecular Crystals and Liquid Crystals, 1994, 256, 439-448.	0.3	138
97	Conjugation-Length Dependence of Spin-Dependent Exciton Formation Rates in π -Conjugated Oligomers and Polymers. Physical Review Letters, 2002, 88, 197401.	2.9	138
98	Electronic memory effects in diodes from a zinc oxide nanoparticle-polystyrene hybrid material. Applied Physics Letters, 2006, 89, 102103.	1.5	136
99	Polymer Solar Cells: Solubility Controls Fiber Network Formation. Journal of the American Chemical Society, 2015, 137, 11783-11794.	6.6	133
100	Substituted 2,1,3-Benzothiadiazole- And Thiophene-Based Polymers for Solar Cells \hat{w} Introducing a New Thermocleavable Precursor. Chemistry of Materials, 2009, 21, 4669-4675.	3.2	132
101	High-Spin Cation Radicals of Meta- \hat{w} Para-Aniline Oligomers. Journal of the American Chemical Society, 1997, 119, 4492-4501.	6.6	128
102	Singlet and triplet excitations of chiral dialkoxy-p-phenylene vinylene oligomers. Journal of Chemical Physics, 2000, 112, 9445-9454.	1.2	128
103	Photovoltaic Performance of an Ultrasmall Band Gap Polymer. Organic Letters, 2009, 11, 903-906.	2.4	128
104	Mechanistic Aspects of the Suzuki Polycondensation of Thiophenebisboronic Derivatives and Diiodobenzenes Analyzed by MALDI-TOF Mass Spectrometry. Macromolecules, 2001, 34, 5386-5393.	2.2	127
105	Exciplex dynamics in a blend of π -conjugated polymers with electron donating and accepting properties: MDMO-PPV and PCNEPV. Physical Review B, 2005, 72, .	1.1	127
106	Reproducible resistive switching in nonvolatile organic memories. Applied Physics Letters, 2007, 91, .	1.5	126
107	Insights into Fullerene Passivation of SnO ₂ Electron Transport Layers in Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905883.	7.8	124
108	Realization of large area flexible fullerene \hat{w} conjugated polymer photocells: A route to plastic solar cells. Synthetic Metals, 1999, 102, 861-864.	2.1	122

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109	Microstructure-mobility correlation in self-organised, conjugated polymer field-effect transistors. <i>Synthetic Metals</i> , 2000, 111-112, 129-132.	2.1	121
110	Monolayer coverage and channel length set the mobility in self-assembled monolayer field-effect transistors. <i>Nature Nanotechnology</i> , 2009, 4, 674-680.	15.6	121
111	Origin of Work Function Modification by Ionic and Amine-Based Interface Layers. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400189.	1.9	121
112	Morphological Device Model for Organic Bulk Heterojunction Solar Cells. <i>Nano Letters</i> , 2009, 9, 3032-3037.	4.5	120
113	Investigation of Exciton Coupling in Oligothiophenes by Circular Dichroism Spectroscopy. <i>Advanced Materials</i> , 1998, 10, 1343-1348.	11.1	119
114	Functionalized Dendritic Oligothiophenes: Ruthenium Phthalocyanine Complexes and Their Application in Bulk Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 8669-8676.	6.6	119
115	Double-Cable-Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 18647-18656.	6.6	119
116	Real versus Measured Surface Potentials in Scanning Kelvin Probe Microscopy. <i>ACS Nano</i> , 2008, 2, 622-626.	7.3	116
117	Optical Properties of Oligothiophene Substituted Diketopyrrolopyrrole Derivatives in the Solid Phase: Joint J- and H-Type Aggregation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7927-7936.	1.1	114
118	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Core-Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2010, 22, 457-466.	3.2	113
119	Influence of the Position of the Side Chain on Crystallization and Solar Cell Performance of DPP-Based Small Molecules. <i>Chemistry of Materials</i> , 2014, 26, 916-926.	3.2	113
120	Synthesis and structure-property relationship of new donor-acceptor-type conjugated monomers and polymers on the basis of thiophene and benzothiadiazole. <i>Journal of Polymer Science Part A</i> , 2002, 40, 251-261.	2.5	112
121	Photochemical Fulleroid to Methanofullerene Conversion via the Di-pi-methane (Zimmerman) Rearrangement. <i>Journal of the American Chemical Society</i> , 1995, 117, 544-545.	6.6	111
122	Enhancement Mode PEDOT:PSS Organic Electrochemical Transistors Using Molecular De-Doping. <i>Advanced Materials</i> , 2020, 32, e2000270.	11.1	109
123	Photoluminescence of Self-organized Perylene Bisimide Polymers. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 217-222.	1.1	107
124	Supramolecular Hydrogen-Bonded Oligo(p-phenylene vinylene) Polymers This work was supported by Netherlands Organization for Scientific Research (NWO) and the Royal Netherlands Academy of Arts and Sciences. The authors thank Michel Fransen for the synthesis of the starting materials, Joost van Dongen and Xiamwen Lou for matrix-assisted laser desorption ionization time-of-flight (MALDI-TOF) MS measurements, Pascal Jonkheijm for atomic force microscopy (AFM) measurements, and Dr. Rint Siibesma for fruitful and. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3660.	7.2	106
125	Intra- and Intermolecular Photoinduced Energy and Electron Transfer between Oligothiophenylvinylenes and N-Methylfulleropyrrolidine. <i>Journal of Physical Chemistry A</i> , 2002, 106, 21-31.	1.1	105
126	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulk-Heterojunction Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 148-152.	7.2	105

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127	Efficient Inverted Tandem Polymer Solar Cells with a Solution-Processed Recombination Layer. <i>Advanced Energy Materials</i> , 2012, 2, 945-949.	10.2	104
128	Triplet Formation Involving a Polar Transition State in a Well-Defined Intramolecular Perylenediimide Dimeric Aggregate. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5846-5857.	1.1	103
129	Scanning Kelvin Probe Microscopy on Bulk Heterojunction Polymer Blends. <i>Advanced Functional Materials</i> , 2009, 19, 1379-1386.	7.8	103
130	Hole transport in polyfluorene-based sandwich-type devices: Quantitative analysis of the role of energetic disorder. <i>Physical Review B</i> , 2008, 78, .	1.1	102
131	Highly Luminescent Ultranarrow Mn Doped ZnSe Nanowires. <i>Nano Letters</i> , 2009, 9, 745-750.	4.5	102
132	Revealing Buried Interfaces to Understand the Origins of Threshold Voltage Shifts in Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2010, 22, 5105-5109.	11.1	101
133	Toward Practical Useful Polymers for Highly Efficient Solar Cells via a Random Copolymer Approach. <i>Journal of the American Chemical Society</i> , 2016, 138, 10782-10785.	6.6	101
134	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. <i>Nano Energy</i> , 2018, 45, 368-379.	8.2	101
135	Redox States of Well-Defined π -Conjugated Oligothiophenes Functionalized with Poly(benzyl ether) Dendrons. <i>Journal of the American Chemical Society</i> , 2000, 122, 7042-7051.	6.6	100
136	Discriminating between Bilayer and Bulk Heterojunction Polymer:Fullerene Solar Cells Using the External Quantum Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3252-3255.	4.0	99
137	Wide-Bandgap Benzodithiophene-Benzothiadiazole Copolymers for Highly Efficient Multijunction Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 4461-4468.	11.1	99
138	Polymer Photovoltaic Devices from Stratified Multilayers of Donor-Acceptor Blends. <i>Advanced Materials</i> , 2000, 12, 1367-1370.	11.1	98
139	Low band gap polymer bulk heterojunction solar cells. <i>Chemical Physics Letters</i> , 2006, 422, 488-491.	1.2	98
140	Mechanism for Efficient Photoinduced Charge Separation at Disordered Organic Heterointerfaces. <i>Advanced Functional Materials</i> , 2012, 22, 2700-2708.	7.8	98
141	6. π i. Aromaticity in four-membered rings. <i>Journal of the American Chemical Society</i> , 1990, 112, 4155-4164.	6.6	95
142	High Open-Circuit Voltage Poly(ethynylene bithienylene):Fullerene Solar Cells. <i>Chemistry of Materials</i> , 2006, 18, 5832-5834.	3.2	95
143	Helical Aromatic Oligoamide Foldamers as Organizational Scaffolds for Photoinduced Charge Transfer. <i>Journal of the American Chemical Society</i> , 2009, 131, 4819-4829.	6.6	95
144	Direct evidence of photoinduced electron transfer in conducting-polymer-C60composites by infrared photoexcitation spectroscopy. <i>Physical Review B</i> , 1994, 49, 5781-5784.	1.1	94

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145	Monte-Carlo simulations of geminate electron-hole pair dissociation in a molecular heterojunction: a two-step dissociation mechanism. <i>Chemical Physics</i> , 2005, 308, 125-133.	0.9	93
146	Electroluminescent Cu-doped CdS Quantum Dots. <i>Advanced Materials</i> , 2009, 21, 2916-2920.	11.1	93
147	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 7073-7077.	3.2	93
148	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021, 11, 2002774.	10.2	93
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