RenÃ© Aj Janssen

List of Publications by Year
in descending order

595	56,473	997 114	1599 216
papers	citations	h-index	g-index

605	605	605	31588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-dimensional charge transport in self-organized, high-mobility conjugated polymers. Nature, 1999, 401, 685-688.	27.8	4,364
2	Nanoscale Morphology of High-Performance Polymer Solar Cells. Nano Letters, 2005, 5, 579-583.	9.1	1,499
3	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. Angewandte Chemie - International Edition, 2003, 42, 3371-3375.	13.8	1,089
4	Materials interface engineering for solution-processed photovoltaics. Nature, 2012, 488, 304-312.	27.8	1,000
5	The Energy of Chargeâ€Transfer States in Electron Donorâ€“Acceptor Blends: Insight into the Energy Losses in Organic Solar Cells. Advanced Functional Materials, 2009, 19, 1939-1948.	14.9	907
6	Efficient Hybrid Solar Cells from Zinc Oxide Nanoparticles and a Conjugated Polymer. Advanced Materials, 2004, 16, 1009-1013.	21.0	891
7	Thieno[3,2-b]thiopheneâ^'Diketopyrrolopyrrole-Containing Polymers for High-Performance Organic Field-Effect Transistors and Organic Photovoltaic Devices. Journal of the American Chemical Society, 2011, 133, 3272-3275.	13.7	854
8	Hybrid Zinc Oxide Conjugated Polymer Bulk Heterojunction Solar Cells. Journal of Physical Chemistry B, 2005, 109, 9505-9516.	2.6	842
9	Poly(diketopyrrolopyrroleâ^'terthiophene) for Ambipolar Logic and Photovoltaics. Journal of the American Chemical Society, 2009, 131, 16616-16617.	13.7	721
10	Narrowâ€Bandgap Diketoâ€Pyrroloâ€Pyrrole Polymer Solar Cells: The Effect of Processing on the Performance. Advanced Materials, 2008, 20, 2556-2560.	21.0	671
11	Relating the Morphology of Poly(p-phenylene vinylene)/Methanofullerene Blends to Solar-Cell Performance. Advanced Functional Materials, 2004, 14, 425-434.	14.9	635
12	Conductivity, work function, and environmental stability of PEDOT:PSS thin films treated with sorbitol. Organic Electronics, 2008, 9, 727-734.	2.6	609
13	Electron Transport in a Methanofullerene. Advanced Functional Materials, 2003, 13, 43-46.	14.9	600
14	Factors Limiting Device Efficiency in Organic Photovoltaics. Advanced Materials, 2013, 25, 1847-1858.	21.0	550
15	Hybrid Solar Cells from Regioregular Polythiophene and ZnO Nanoparticles. Advanced Functional Materials, 2006, 16, 1112-1116.	14.9	547
16	Compositional and Electric Field Dependence of the Dissociation of Charge Transfer Excitons in Alternating Polyfluorene Copolymer/Fullerene Blends. Journal of the American Chemical Society, 2008, 130, 7721-7735.	13.7	544
17	A Low-Bandgap Semiconducting Polymer for Photovoltaic Devices and Infrared Emitting Diodes. Advanced Functional Materials, 2002, 12, 709-712.	14.9	517
18	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. Nature Materials, 2009, 8, 818-824.	27.5	511

#	Article	IF	Citations
19	Efficient Tandem and Triple-Junction Polymer Solar Cells. Journal of the American Chemical Society, 2013, 135, 5529-5532.	13.7	498
20	Microscopic Understanding of the Anisotropic Conductivity of PEDOT:PSS Thin Films. Advanced Materials, 2007, 19, 1196-1200.	21.0	482
21	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. ACS Nano, 2015, 9, 9380-9393.	14.6	451
22	Circularly Polarized Electroluminescence from a Polymer Light-Emitting Diode. Journal of the American Chemical Society, 1997, 119, 9909-9910.	13.7	438
23	Deep Absorbing Porphyrin Small Molecule for High-Performance Organic Solar Cells with Very Low Energy Losses. Journal of the American Chemical Society, 2015, 137, 7282-7285.	13.7	436
24	Diketopyrrolopyrrole Polymers for Organic Solar Cells. Accounts of Chemical Research, 2016, 49, 78-85.	15.6	435
25	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. Journal of the American Chemical Society, 2016, 138, 10935-10944.	13.7	401
26	Supramolecular pâ'n-Heterojunctions by Co-Self-Organization of Oligo(p-phenylene Vinylene) and Perylene Bisimide Dyes. Journal of the American Chemical Society, 2004, 126, 10611-10618.	13.7	400
27	Highâ€Molecularâ€Weight Regular Alternating Diketopyrrolopyrroleâ€based Terpolymers for Efficient Organic Solar Cells. Angewandte Chemie - International Edition, 2013, 52, 8341-8344.	13.8	398
28	Compositional Dependence of the Performance of Poly(p-phenylene vinylene):Methanofullerene Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2005, 15, 795-801.	14.9	383
29	High Quantum Efficiencies in Polymer Solar Cells at Energy Losses below 0.6 eV. Journal of the American Chemical Society, 2015, 137, 2231-2234.	13.7	365
30	Efficient Solar Cells Based on an Easily Accessible Diketopyrrolopyrrole Polymer. Advanced Materials, 2010, 22, E242-6.	21.0	358
31	The use of ZnO as optical spacer in polymer solar cells: Theoretical and experimental study. Applied Physics Letters, 2007, 91, .	3.3	341
32	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. Macromolecules, 2004, 37, 2151-2158.	4.8	339
33	A Morphological Model for the Solventâ€Enhanced Conductivity of PEDOT:PSS Thin Films. Advanced Functional Materials, 2008, 18, 865-871.	14.9	333
34	Double and triple junction polymer solar cells processed from solution. Applied Physics Letters, 2007, 90, 143512.	3.3	329
35	Quantifying Bimolecular Recombination Losses in Organic Bulk Heterojunction Solar Cells. Advanced Materials, 2011, 23, 1670-1674.	21.0	328
36	Spectroscopic Studies of Photoexcitations in Regioregular and Regiorandom Polythiophene Films. Advanced Functional Materials, 2002, 12, 587-597.	14.9	314

#	Article	IF	Citations
37	Universal Correlation between Fibril Width and Quantum Efficiency in Diketopyrrolopyrrole-Based Polymer Solar Cells. Journal of the American Chemical Society, 2013, 135, 18942-18948.	13.7	305
38	Multicomponent semiconducting polymer systems with low crystallization-induced percolation threshold. Nature Materials, 2006, 5, 950-956.	27.5	302
39	Efficient Small Bandgap Polymer Solar Cells with High Fill Factors for 300 nm Thick Films. Advanced Materials, 2013, 25, 3182-3186.	21.0	295
40	A real-time study of the benefits of co-solvents in polymer solar cell processing. Nature Communications, 2015, 6, 6229.	12.8	287
41	Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly{3,4-di[(S)-2-methylbutoxy]thiophene}. Journal of the American Chemical Society, 1996, 118, 4908-4909.	13.7	279
42	Predicting Morphologies of Solution Processed Polymer:Fullerene Blends. Journal of the American Chemical Society, 2013, 135, 12057-12067.	13.7	274
43	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. Journal of Materials Chemistry A, 2018, 6, 395-403.	10.3	272
44	Solution-Processed Organic Tandem Solar Cells. Advanced Functional Materials, 2006, 16, 1897-1903.	14.9	265
45	Photoinduced Electron Transfer and Photovoltaic Response of a MDMO-PPV:TiO2 Bulk-Heterojunction. Advanced Materials, 2003, 15, 118-121.	21.0	260
46	Small-Bandgap Semiconducting Polymers with High Near-Infrared Photoresponse. Journal of the American Chemical Society, 2014, 136, 12130-12136.	13.7	259
47	Enhancing the Photocurrent in Diketopyrrolopyrrole-Based Polymer Solar Cells via Energy Level Control. Journal of the American Chemical Society, 2012, 134, 13787-13795.	13.7	258
48	Two-Dimensional Crystals of Poly(3-Alkyl- thiophene)s: Direct Visualization of Polymer Folds in Submolecular Resolution. Angewandte Chemie - International Edition, 2000, 39, 2679-2684.	13.8	257
49	Photoinduced Electron Transfer and Photovoltaic Devices of a Conjugated Polymer with Pendant Fullerenes. Journal of the American Chemical Society, 2001, 123, 6714-6715.	13.7	247
50	Polymer Solar Cells with Diketopyrrolopyrrole Conjugated Polymers as the Electron Donor and Electron Acceptor. Advanced Materials, 2014, 26, 3304-3309.	21.0	245
51	Redox States of Long Oligothiophenes: Two Polarons on a Single Chain. Chemistry - A European Journal, 1998, 4, 1509-1522.	3.3	242
52	Synthesis, Photophysical Properties, and Photovoltaic Devices of Oligo(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (vinyl	2.6	242
53	Organic Photodetectors and their Application in Large Area and Flexible Image Sensors: The Role of Dark Current. Advanced Functional Materials, 2020, 30, 1904205.	14.9	242
54	Influence of Chain Length and Derivatization on the Lowest Singlet and Triplet States and Intersystem Crossing in Oligothiophenes. Journal of the American Chemical Society, 1996, 118, 6453-6461.	13.7	237

#	Article	IF	Citations
55	Solutionâ€Processed Bulkâ€Heterojunction Solar Cells Based on Monodisperse Dendritic Oligothiophenes. Advanced Functional Materials, 2008, 18, 3323-3331.	14.9	234
56	The Effect of Hâ€•and Jâ€Aggregation on the Photophysical and Photovoltaic Properties of Small Thiopheneâ€“Pyridineâ€“DPP Molecules for Bulkâ€Heterojunction Solar Cells. Advanced Functional Materials, 2017, 27, 1605779.	14.9	234
57	A Unifying Model for the Operation of Light-Emitting Electrochemical Cells. Journal of the American Chemical Society, 2010, 132, 13776-13781.	13.7	232
58	Functionalized 3D Oligothiophene Dendrons and Dendrimersâ€" Novel Macromolecules for Organic Electronics. Angewandte Chemie - International Edition, 2007, 46, 1679-1683.	13.8	230
59	Optimizing Polymer Tandem Solar Cells. Advanced Materials, 2010, 22, E67-71.	21.0	221
60	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. Journal of the American Chemical Society, 2018, 140, 8934-8943.	13.7	218
61	Effect of the Fibrillar Microstructure on the Efficiency of High Molecular Weight Diketopyrrolopyrroleâ€Based Polymer Solar Cells. Advanced Materials, 2014, 26, 1565-1570.	21.0	207
62	On the origin of optical activity in polythiophenes. Journal of Molecular Structure, 2000, 521, 285-301.	3.6	206
63	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. Solar Energy Materials and Solar Cells, 2009, 93, 1968-1977.	6.2	205
64	Hybrid Solar Cells Using a Zinc Oxide Precursor and a Conjugated Polymer. Advanced Functional Materials, 2005, 15, 1703-1707.	14.9	202
65	Tough, Semiconducting Polyethyleneâ€poly(3â€hexylthiophene) Diblock Copolymers. Advanced Functional Materials, 2007, 17, 2674-2679.	14.9	201
66	9.0% power conversion efficiency from ternary all-polymer solar cells. Energy and Environmental Science, 2017, 10, 2212-2221.	30.8	200
67	Alternating Oligo(p-phenylene vinylene)â^'Perylene Bisimide Copolymers:Â Synthesis, Photophysics, and Photovoltaic Properties of a New Class of Donorâ^'Acceptor Materials. Journal of the American Chemical Society, 2003, 125, 8625-8638.	13.7	195
68	Anisotropic hopping conduction in spin-coated PEDOT:PSS thin films. Physical Review B, 2007, 76, .	3.2	193
69	Low-band gap poly(di-2-thienylthienopyrazine):fullerene solar cells. Applied Physics Letters, 2006, 88, 153511.	3.3	191
70	Red, green, and blue quantum dot LEDs with solution processable ZnO nanocrystal electron injection layers. Journal of Materials Chemistry, 2008, 18, 1889.	6.7	183
71	Homocoupling Defects in Diketopyrrolopyrrole-Based Copolymers and Their Effect on Photovoltaic Performance. Journal of the American Chemical Society, 2014, 136, 11128-11133.	13.7	174
72	Optical and Redox Properties of a Series of 3,4-Ethylenedioxythiophene Oligomers. Chemistry - A European Journal, 2002, 8, 2384.	3.3	172

#	Article	IF	Citations
73	Polymerâ€“Fullerene Bulk Heterojunction Solar Cells. MRS Bulletin, 2005, 30, 33-36.	3.5	171
74	Influence of Intermolecular Orientation on the Photoinduced Charge Transfer Kinetics in Self-Assembled Aggregates of Donorâ^'Acceptor Arrays. Journal of the American Chemical Society, 2006, 128, 649-657.	13.7	171
75	Highly Luminescent CdTe/CdSe Colloidal Heteronanocrystals with Temperature-Dependent Emission Color. Journal of the American Chemical Society, 2007, 129, 14880-14886.	13.7	167
76	Solution Processed Polymer Tandem Solar Cell Using Efficient Small and Wide bandgap Polymer:Fullerene Blends. Advanced Materials, 2012, 24, 2130-2134.	21.0	167
77	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. Angewandte Chemie, 2003, 115, 3493-3497.	2.0	156
78	Crystallineâ^'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.	13.7	155
79	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Fieldâ€Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. Advanced Materials, 2016, 28, 943-950.	21.0	155
80	Small band gap polymers based on diketopyrrolopyrrole. Journal of Materials Chemistry, 2010, 20, 2240.	6.7	152
81	Tripletâ€state photoexcitations of oligothiophene films and solutions. Journal of Chemical Physics, 1994, 101, 1787-1798.	3.0	151
82	Selective oxidation of benzene to phenol with nitrous oxide over MFI zeolites1. On the role of iron and aluminum. Journal of Catalysis, 2005, 233, 123-135.	6.2	151
83	Improved Film Morphology Reduces Charge Carrier Recombination into the Triplet Excited State in a Small Bandgap Polymerâ€Fullerene Photovoltaic Cell. Advanced Materials, 2010, 22, 4321-4324.	21.0	151
84	A Polystyreneâ^'Oligothiopheneâ^'Polystyrene Triblock Copolymer. Journal of the American Chemical Society, 1998, 120, 2798-2804.	13.7	150
85	Inversion of Optical Activity of Chiral Polythiophene Aggregates by a Change of Solvent. Macromolecules, 1998, 31, 6702-6704.	4.8	150
86	Principles of â€œMajority Rulesâ€•and â€œSergeants and Soldiersâ€•Applied to the Aggregation of Optically Active Polythiophenes:Â Evidence for a Multichain Phenomenon. Macromolecules, 1999, 32, 227-230.	4.8	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 Fullereneâ^'Oligothiopheneâ^'Fullerene Triads. Journal of Physical Chemistry A, 2000, 104, 5974-5988.	2.5	146
89	Copolymers of Cyclopentadithiophene and Electronâ€Deficient Aromatic Units Designed for Photovoltaic Applications. Advanced Functional Materials, 2009, 19, 3262-3270.	14.9	146
90	Advances in Solutionâ€Processed Multijunction Organic Solar Cells. Advanced Materials, 2019, 31, e1806499.	21.0	146

#	Article	IF	Citations
91	Absence of Strong Gate Effects in Electrical Measurements on Phenylene-Based Conjugated Molecules. Nano Letters, 2003, 3, 113-117.	9.1	145
92	Photoinduced Electron Transfer from Conjugated Polymers to TiO2. Journal of Physical Chemistry B, 1999, 103, 4352-4359.	2.6	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.	21.0	141
95	Characterization of polymer solar cells by TOF-SIMS depth profiling. Applied Surface Science, 2003, 203-204, 547-550.	6.1	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 inÎ-Conjugated Oligomers and Polymers. Physical Review Letters, 2002, 88, 197401.	7.8	138
98	Electronic memory effects in diodes from a zinc oxide nanoparticle-polystyrene hybrid material. Applied Physics Letters, 2006, 89, 102103.	3.3	136
99	Polymer Solar Cells: Solubility Controls Fiber Network Formation. Journal of the American Chemical Society, 2015, 137, 11783-11794.	13.7	133
100	Substituted 2,1,3-Benzothiadiazole- And Thiophene-Based Polymers for Solar Cells â^' Introducing a New Thermocleavable Precursor. Chemistry of Materials, 2009, 21, 4669-4675.	6.7	132
101	High-Spin Cation Radicals ofMetaâ^'ParaAniline Oligomers. Journal of the American Chemical Society, 1997, 119, 4492-4501.	13.7	128
102	Singlet and triplet excitations of chiral dialkoxy-p-phenylene vinylene oligomers. Journal of Chemical Physics, 2000, 112, 9445-9454.	3.0	128
103	Photovoltaic Performance of an Ultrasmall Band Gap Polymer. Organic Letters, 2009, 11, 903-906.	4.6	128
104	Mechanistic Aspects of the Suzuki Polycondensation of Thiophenebisboronic Derivatives and Diiodobenzenes Analyzed by MALDIâ^'TOF Mass Spectrometry. Macromolecules, 2001, 34, 5386-5393.	4.8	127
105	Exciplex dynamics in a blend ofÏ€-conjugated polymers with electron donating and accepting properties: MDMO-PPV and PCNEPV. Physical Review B, 2005, 72, .	3.2	127
106	Reproducible resistive switching in nonvolatile organic memories. Applied Physics Letters, 2007, 91, .	3.3	126
107	Insights into Fullerene Passivation of SnO₂ Electron Transport Layers in Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905883.	14.9	124
108	Realization of large area flexible fullerene â€" conjugated polymer photocells: A route to plastic solar cells. Synthetic Metals, 1999, 102, 861-864.	3.9	122

#	Article	IF	Citations
109	Microstructureâ€“mobility correlation in self-organised, conjugated polymer field-effect transistors. Synthetic Metals, 2000, 111-112, 129-132.	3.9	121
110	Monolayer coverage and channel length set the mobility in self-assembled monolayer field-effect transistors. Nature Nanotechnology, 2009, 4, 674-680.	31.5	121
111	Origin of Work Function Modification by Ionic and Amineâ€Based Interface Layers. Advanced Materials Interfaces, 2014, 1, 1400189.	3.7	121
112	Morphological Device Model for Organic Bulk Heterojunction Solar Cells. Nano Letters, 2009, 9, 3032-3037.	9.1	120
113	Investigation of Exciton Coupling in Oligothiophenes by Circular Dichroism Spectroscopy. Advanced Materials, 1998, 10, 1343-1348.	21.0	119
114	Functionalized Dendritic Oligothiophenes: Ruthenium Phthalocyanine Complexes and Their Application in Bulk Heterojunction Solar Cells. Journal of the American Chemical Society, 2009, 131, 8669-8676.	13.7	119
115	â€œDouble-Cableâ€•Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. Journal of the American Chemical Society, 2017, 139, 18647-18656.	13.7	119
116	Real versus Measured Surface Potentials in Scanning Kelvin Probe Microscopy. ACS Nano, 2008, 2, 622-626.	14.6	116
117	Optical Properties of Oligothiophene Substituted Diketopyrrolopyrrole Derivatives in the Solid Phase: Joint J- and H-Type Aggregation. Journal of Physical Chemistry A, 2012, 116, 7927-7936.	2.5	114
118	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Coreâ^'Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. Chemistry of Materials, 2010, 22, 457-466.	6.7	113
119	Influence of the Position of the Side Chain on Crystallization and Solar Cell Performance of DPP-Based Small Molecules. Chemistry of Materials, 2014, 26, 916-926.	6.7	113
120	Synthesis and structure-property relationship of new donor-acceptor-type conjugated monomers and polymers on the basis of thiophene and benzothiadiazole. Journal of Polymer Science Part A, 2002, 40, 251-261.	2.3	112
121	Photochemical Fulleroid to Methanofullerene Conversion via the Di-.pi.-methane (Zimmerman) Rearrangement. Journal of the American Chemical Society, 1995, 117, 544-545.	13.7	111
122	Enhancementâ€Mode PEDOT:PSS Organic Electrochemical Transistors Using Molecular Deâ€Doping. Advanced Materials, 2020, 32, e2000270.	21.0	109
123	Photoluminescence of Self-organized Perylene Bisimide Polymers. Macromolecular Chemistry and Physics, 2004, 205, 217-222.	2.2	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 Sijbesma for fruitful and. Angewandte Chemie - International Edition, 2001, 40, 3660.	13.8	106
125	Intra- and Intermolecular Photoinduced Energy and Electron Transfer between Oligothienylenevinylenes and N-Methylfulleropyrrolidine. Journal of Physical Chemistry A, 2002, 106, 21-31.	2.5	105
126	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulkâ€Heterojunction Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 148-152.	13.8	105

#	Article	IF	Citations
127	Efficient Inverted Tandem Polymer Solar Cells with a Solutionâ€Processed Recombination Layer. Advanced Energy Materials, 2012, 2, 945-949.	19.5	104
128	Triplet Formation Involving a Polar Transition State in a Well-Defined Intramolecular Perylenediimide Dimeric Aggregate. Journal of Physical Chemistry A, 2008, 112, 5846-5857.	2.5	103
129	Scanning Kelvin Probe Microscopy on Bulk Heterojunction Polymer Blends. Advanced Functional Materials, 2009, 19, 1379-1386.	14.9	103
130	Hole transport in polyfluorene-based sandwich-type devices: Quantitative analysis of the role of energetic disorder. Physical Review B, 2008, 78, .	3.2	102
131	Highly Luminescent Ultranarrow Mn Doped ZnSe Nanowires. Nano Letters, 2009, 9, 745-750.	9.1	102
132	Revealing Buried Interfaces to Understand the Origins of Threshold Voltage Shifts in Organic Fieldâ€Effect Transistors. Advanced Materials, 2010, 22, 5105-5109.	21.0	101
133	Toward Practical Useful Polymers for Highly Efficient Solar Cells via a Random Copolymer Approach. Journal of the American Chemical Society, 2016, 138, 10782-10785.	13.7	101
134	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. Nano Energy, 2018, 45, 368-379.	16.0	101
135	Redox States of Well-Defined Ï€-Conjugated Oligothiophenes Functionalized with Poly(benzyl ether) Dendrons. Journal of the American Chemical Society, 2000, 122, 7042-7051.	13.7	100
136	Discriminating between Bilayer and Bulk Heterojunction Polymer:Fullerene Solar Cells Using the External Quantum Efficiency. ACS Applied Materials & Interfaces, 2011, 3, 3252-3255.	8.0	99
137	Wideâ€Bandgap Benzodithiopheneâ€“Benzothiadiazole Copolymers for Highly Efficient Multijunction Polymer Solar Cells. Advanced Materials, 2015, 27, 4461-4468.	21.0	99
138	Polymer Photovoltaic Devices from Stratified Multilayers of Donor-Acceptor Blends. Advanced Materials, 2000, 12, 1367-1370.	21.0	98
139	Low band gap polymer bulk heterojunction solar cells. Chemical Physics Letters, 2006, 422, 488-491.	2.6	98
140	Mechanism for Efficient Photoinduced Charge Separation at Disordered Organic Heterointerfaces. Advanced Functional Materials, 2012, 22, 2700-2708.	14.9	98
141	6.pi. Aromaticity in four-membered rings. Journal of the American Chemical Society, 1990, 112, 4155-4164.	13.7	95
142	High Open-Circuit Voltage Poly(ethynylene bithienylene):Fullerene Solar Cells. Chemistry of Materials, 2006, 18, 5832-5834.	6.7	95
143	Helical Aromatic Oligoamide Foldamers as Organizational Scaffolds for Photoinduced Charge Transfer. Journal of the American Chemical Society, 2009, 131, 4819-4829.	13.7	95
144	Direct evidence of photoinduced electron transfer in conducting-polymerâ€“C60composites by infrared photoexcitation spectroscopy. Physical Review B, 1994, 49, 5781-5784.	3.2	94

#	Article	IF	Citations
145	Monte-Carlo simulations of geminate electronâ€“hole pair dissociation in a molecular heterojunction: a two-step dissociation mechanism. Chemical Physics, 2005, 308, 125-133.	1.9	93
146	Electroluminescent Cuâ€doped CdS Quantum Dots. Advanced Materials, 2009, 21, 2916-2920.	21.0	93
147	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. Chemistry of Materials, 2017, 29, 7073-7077.	6.7	93
148	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	19.5	93
149	Electronic memory effects in diodes of zinc oxide nanoparticles in a matrix of polystyrene or poly(3-hexylthiophene). Journal of Applied Physics, 2007, 102, .	2.5	92
150	Synthesis and photovoltaic performance of a series of small band gap polymers. Journal of Materials Chemistry, 2009, 19, 5336.	6.7	92
151	2-Methoxyethanol as a new solvent for processing methylammonium lead halide perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 2346-2354.	10.3	92
152	N2O Decomposition over Fe/ZSM-5: Effect of High-Temperature Calcination and Steaming. Catalysis Letters, 2002, 81, 205-212.	2.6	90
153	Measuring the External Quantum Efficiency of Twoâ€Terminal Polymer Tandem Solar Cells. Advanced Functional Materials, 2010, 20, 3904-3911.	14.9	90
154	Modeling the temperature induced degradation kinetics of the short circuit current in organic bulk heterojunction solar cells. Applied Physics Letters, 2010, 96, .	3.3	90
155	Highâ€Performance and Stable Allâ€Polymer Solar Cells Using Donor and Acceptor Polymers with Complementary Absorption. Advanced Energy Materials, 2017, 7, 1602722.	19.5	90
156	Impact of polymorphism on the optoelectronic properties of a low-bandgap semiconducting polymer. Nature Communications, 2019, 10, 2867.	12.8	89
157	Photoinduced Electron Transfer in a Mesogenic Donorâ€“Acceptorâ€“Donor System. Chemistry - A European Journal, 2002, 8, 4470-4474.	3.3	88
158	On the Origin of Dark Current in Organic Photodiodes. Advanced Optical Materials, 2020, 8, 1901568.	7.3	88
159	Negative capacitances in low-mobility solids. Physical Review B, 2005, 72, .	3.2	87
160	Donor-Functionalized Polydentate Pyrylium Salts and Phosphinines: Synthesis, Structural Characterization, and Photophysical Properties. Chemistry - A European Journal, 2007, 13, 4548-4559.	3.3	87
161	Description of the Morphology Dependent Charge Transport and Performance of Polymer:Fullerene Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2011, 21, 261-269.	14.9	86
162	The Relationship between Nanoscale Architecture and Function in Photovoltaic Multichromophoric Arrays as Visualized by Kelvin Probe Force Microscopy. Journal of the American Chemical Society, 2008, 130, 14605-14614.	13.7	85

#	Article	IF	Citations
163	Copolymers of diketopyrrolopyrrole and thienothiophene for photovoltaic cells. Journal of Materials Chemistry, 2011, 21, 9224.	6.7	85
164	Unusual Thermoelectric Behavior Indicating a Hopping to Bandlike Transport Transition in Pentacene. Physical Review Letters, 2012, 109, 016601.	7.8	85
165	Efficient Polymer Solar Cells on Opaque Substrates with a Laminated PEDOT:PSS Top Electrode. Advanced Energy Materials, 2013, 3, 782-787.	19.5	84
166	Synthesis and properties of small band gap thienoisoindigo based conjugated polymers. Journal of Materials Chemistry, 2012, 22, 20387.	6.7	83
167	Measuring the light emission profile in organic light-emitting diodes with nanometre spatial resolution. Nature Photonics, 2010, 4, 329-335.	31.4	82
168	Orientational Effect on the Photophysical Properties of Quaterthiopheneâ€“C60 Dyads. Chemistry - A European Journal, 2002, 8, 5415-5429.	3.3	81
169	Energy and Electron Transfer in a Poly(fluorene-alt-phenylene) Bearing Perylenediimides as Pendant Electron Acceptor Groups. Macromolecules, 2007, 40, 2760-2772.	4.8	81
170	Diketopyrrolopyrroles as Acceptor Materials in Organic Photovoltaics. Macromolecular Rapid Communications, 2010, 31, 1554-1559.	3.9	81
171	Kinetic Monte Carlo Study of the Sensitivity of OLED Efficiency and Lifetime to Materials Parameters. Advanced Functional Materials, 2015, 25, 2024-2037.	14.9	81
172	8.0% Efficient Allâ€Polymer Solar Cells with High Photovoltage of 1.1 V and Internal Quantum Efficiency near Unity. Advanced Energy Materials, 2018, 8, 1700908.	19.5	81
173	Electrically Rewritable Memory Cells from Poly(3-hexylthiophene) Schottky Diodes. Advanced Materials, 2005, 17, 1169-1173.	21.0	80
174	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. Advanced Energy Materials, 2011, 1, 90-96.	19.5	80
175	High Performance Polymer Nanowire Fieldâ€Effect Transistors with Distinct Molecular Orientations. Advanced Materials, 2015, 27, 4963-4968.	21.0	79
176	An Electron-Deficient Discotic Liquid-Crystalline Material. Chemistry of Materials, 2001, 13, 2675-2679.	6.7	78
177	Sensitization of low bandgap polymer bulk heterojunction solar cells. Thin Solid Films, 2002, 403-404, 373-379.	1.8	78
178	Electron and energy transfer processes of photoexcited oligothiophenes onto tetracyanoethylene and C60. Journal of Chemical Physics, 1994, 101, 9519-9527.	3.0	77
179	Simultaneous Openâ€Circuit Voltage Enhancement and Shortâ€Circuit Current Loss in Polymer: Fullerene Solar Cells Correlated by Reduced Quantum Efficiency for Photoinduced Electron Transfer. Advanced Energy Materials, 2013, 3, 85-94.	19.5	77
180	Monte Carlo study of efficiency roll-off of phosphorescent organic light-emitting diodes: Evidence for dominant role of triplet-polaron quenching. Applied Physics Letters, 2014, 105, .	3.3	77

#	Article	IF	Citations
181	Concentration-Dependent Thermochromism and Supramolecular Aggregation in Solution of Triblock Copolymers Based on Lengthy Oligothiophene Cores and Poly(benzyl ether) Dendrons. Macromolecules, 2000, 33, 7038-7043.	4.8	76
182	Comparing random and regular diketopyrrolopyrroleâ€“bithiopheneâ€“thienopyrrolodione terpolymers for organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 17899-17905.	10.3	76
183	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. Macromolecules, 2016, 49, 6445-6454.	4.8	76
184	Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. Macromolecules, 2019, 52, 4464-4474.	4.8	75
185	Effect of side chain length on the charge transport, morphology, and photovoltaic performance of conjugated polymers in bulk heterojunction solar cells. Journal of Materials Chemistry A, 2016, 4, 1855-1866.	10.3	74
186	Charge recombination in a poly(para-phenylene vinylene)-fullerene derivative composite film studied by transient, nonresonant, hole-burning spectroscopy. Journal of Chemical Physics, 2003, 119, 10924-10929.	3.0	73
187	Charge transport in amorphous InGaZnO thin-film transistors. Physical Review B, 2012, 86, .	3.2	73
188	Effect of PCBM on the Photodegradation Kinetics of Polymers for Organic Photovoltaics. Chemistry of Materials, 2012, 24, 4397-4405.	6.7	73
189	Five Generations of Nitroxyl-Functionalized Dendrimers. Macromolecules, 1997, 30, 3606-3611.	4.8	72
190	Crowned Dendrimers:â€‰ pH-Responsive Pseudorotaxane Formation. Journal of Organic Chemistry, 2003, 68, 2385-2389.	3.2	72
191	Hole transport in the organic small molecule material Î±-NPD: evidence for the presence of correlated disorder. Journal of Applied Physics, 2010, 107, .	2.5	72
192	Ï€-Dimers of End-Capped Oligopyrrole Cation Radicals. Angewandte Chemie International Edition in English, 1996, 35, 638-640.	4.4	71
193	Concerning the Localization of End Groups in Dendrimers. Journal of the American Chemical Society, 1998, 120, 8547-8548.	13.7	71
194	Comparison of the chain length dependence of the singlet- and triplet-excited states of oligofluorenes. Chemical Physics Letters, 2005, 411, 273-277.	2.6	71
195	An Oligomer Study on Small Band Gap Polymers. Journal of Physical Chemistry A, 2008, 112, 10764-10773.	2.5	70
196	Salt Concentration Effects in Planar Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2011, 21, 1795-1802.	14.9	70
197	Wide band gap diketopyrrolopyrrole-based conjugated polymers incorporating biphenyl units applied in polymer solar cells. Chemical Communications, 2014, 50, 679-681.	4.1	70
198	Relating Frontier Orbital Energies from Voltammetry and Photoelectron Spectroscopy to the Openâ€Circuit Voltage of Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1803677.	19.5	70

#	Article	IF	Citations
199	Influence of Photon Excess Energy on Charge Carrier Dynamics in a Polymerâ€Fullerene Solar Cell. Advanced Energy Materials, 2012, 2, 1095-1099.	19.5	69
200	Phosphorescence and Triplet State Energies of Oligothiophenes. Journal of Physical Chemistry B, 2005, 109, 4410-4415.	2.6	67
201	Triple Junction Polymer Solar Cells for Photoelectrochemical Water Splitting. Advanced Materials, 2013, 25, 2932-2936.	21.0	67
202	Fundamental Tradeoff between Emission Intensity and Efficiency in Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2015, 25, 3066-3073.	14.9	67
203	Dichotomous Role of Exciting the Donor or the Acceptor on Charge Generation in Organic Solar Cells. Journal of the American Chemical Society, 2016, 138, 10026-10031.	13.7	67
204	Photoinduced electron transfer from Ï€â€conjugated polymers onto Buckminsterfullerene, fulleroids, and methanofullerenes. Journal of Chemical Physics, 1995, 103, 788-793.	3.0	66
205	Nearâ€Infrared Tandem Organic Photodiodes for Future Application in Artificial Retinal Implants. Advanced Materials, 2018, 30, e1804678.	21.0	66
206	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	19.5	66
207	Photoinduced electron transfer reactions in mixed films of Ï€â€conjugated polymers and a homologous series of tetracyanoâ€pâ€quinodimethane derivatives. Journal of Chemical Physics, 1995, 103, 8840-8845.	3.0	65
208	Low-bandgap polymer photovoltaic cells. Synthetic Metals, 2001, 121, 1587-1588.	3.9	65
209	Charge Separation and Recombination in Photoexcited Oligo(p-phenylene vinylene):Â Perylene Bisimide Arrays Close to the Marcus Inverted Region. Journal of Physical Chemistry A, 2004, 108, 6933-6937.	2.5	64
210	PbSe Nanocrystal Network Formation during Pyridine Ligand Displacement. ACS Applied Materials & Interfaces, 2009, 1, 244-250.	8.0	64
211	Relaxation of photo-excitations in films of oligo- and poly-(para-phenylene vinylene) derivatives. Chemical Physics, 2000, 260, 415-439.	1.9	63
212	Singlet-energy transfer in quadruple hydrogen-bonded oligo(p-phenylenevinylene)â€“fullerene dyads. Journal of Materials Chemistry, 2002, 12, 2054-2060.	6.7	63
213	Temperature-dependent built-in potential in organic semiconductor devices. Applied Physics Letters, 2006, 88, 192108.	3.3	63
214	Electronic structure of small band gap oligomers based on cyclopentadithiophenes and acceptor units. Journal of Materials Chemistry, 2009, 19, 5343.	6.7	63
215	Photoinduced electron transfer processes in oligothiophene/C60 composite films. Journal of Chemical Physics, 1995, 102, 2628-2635.	3.0	62
216	Full temporal resolution of the two-step photoinduced energyâ€“electron transfer in a fullereneâ€“oligothiopheneâ€“fullerene triad using sub-10 fs pumpâ€“probe spectroscopy. Chemical Physics Letters, 2001, 345, 33-38.	2.6	62

#	Article	IF	Citations
217	Highly Efficient Perovskite Solar Cells Using Nonâ€Toxic Industry Compatible Solvent System. Solar Rrl, 2017, 1, 1700091.	5.8	62
218	2D/3D Hybrid Cs₂AgBiBr₆ Double Perovskite Solar Cells: Improved Energy Level Alignment for Higher Contactâ€Selectivity and Large Open Circuit Voltage. Advanced Energy Materials, 2022, 12, 2103215.	19.5	62
219	Wellâ€Defined Metallodendrimers by Siteâ€Specific Complexation. Chemische Berichte, 1997, 130, 725-728.	0.2	61
220	The interfaces of poly(p-phenylene vinylene) and fullerene derivatives with Al, LiF, and Al/LiF studied by secondary ion mass spectroscopy and x-ray photoelectron spectroscopy: Formation of AlF3 disproved. Journal of Chemical Physics, 2002, 117, 5031-5035.	3.0	61
221	Enhanced Intersystem Crossing via a High Energy Charge Transfer State in a Perylenediimideâ^'Perylenemonoimide Dyad. Journal of Physical Chemistry A, 2008, 112, 8617-8632.	2.5	61
222	Thermal Stability of Poly[2-methoxy-5-(2â€²-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV):Fullerene Bulk Heterojunction Solar Cells. Macromolecules, 2011, 44, 8470-8478.	4.8	61
223	Photoelectrochemical water splitting in an organic artificial leaf. Journal of Materials Chemistry A, 2015, 3, 23936-23945.	10.3	61
224	Controlling the Microstructure of Conjugated Polymers in Highâ€Mobility Monolayer Transistors via the Dissolution Temperature. Angewandte Chemie - International Edition, 2020, 59, 846-852.	13.8	61
225	A thin and flexible scanner for fingerprints and documents based on metal halide perovskites. Nature Electronics, 2021, 4, 818-826.	26.0	61
226	Stable Triplet-State Di(Cation Radicals) of aMetaâ^'ParaAniline Oligomer by â€œAcid Dopingâ€. Journal of the American Chemical Society, 1996, 118, 10626-10628.	13.7	60
227	Synthesis and Characterization of a Poly(1,3-dithienylisothianaphthene) Derivative for Bulk Heterojunction Photovoltaic Cells. Journal of Physical Chemistry B, 2001, 105, 11106-11113.	2.6	60
228	Organic electronic ratchets doing work. Nature Materials, 2011, 10, 51-55.	27.5	60
229	Formation of metastable charges as a first step in photoinduced degradation in Ï€-conjugated polymer:fullerene blends for photovoltaic applications. Organic Electronics, 2011, 12, 1657-1662.	2.6	60
230	Ultralow dark current in near-infrared perovskite photodiodes by reducing charge injection and interfacial charge generation. Nature Communications, 2021, 12, 7277.	12.8	60
231	Photoinduced energy and electron transfer in oligo(p-phenylene vinylene)-fullerene dyads. Applied Physics A: Materials Science and Processing, 2004, 79, 41-46.	2.3	59
232	Electronic Memory Effects in a Sexithiopheneâ^'Poly(ethylene oxide) Block Copolymer Doped with NaCl. Combined Diode and Resistive Switching Behavior. Chemistry of Materials, 2006, 18, 2707-2712.	6.7	59
233	Monitoring Thermal Annealing of Perovskite Solar Cells with In Situ Photoluminescence. Advanced Energy Materials, 2017, 7, 1601822.	19.5	59
234	Donorâ€“Acceptor Polymers: A Conjugated Oligo(p-Phenylene Vinylene) Main Chain with Dangling Perylene Bisimides. Chemistry - A European Journal, 2004, 10, 3907-3918.	3.3	58

#	Article	IF	Citations
235	Supramolecular Control over Donorâ"Acceptor Photoinduced Charge Separation. Journal of the American Chemical Society, 2004, 126, 9630-9644.	13.7	58
236	Dynamic Processes in Sandwich Polymer Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2012, 22, 4547-4556.	14.9	58
237	The Importance of Nanoscopic Ordering on the Kinetics of Photoinduced Charge Transfer in Aggregated Ï€-Conjugated Hydrogen-Bonded Donorâ"Acceptor Systems. Journal of Physical Chemistry B, 2006, 110, 16967-16978.	2.6	57
238	High-Resolution Electronic Spectra of Ethylenedioxythiophene Oligomers. Journal of the American Chemical Society, 2006, 128, 17007-17017.	13.7	57
239	Charge separation and (triplet) recombination in diketopyrrolopyrroleâ€"fullerene triads. Photochemical and Photobiological Sciences, 2010, 9, 1055-1065.	2.9	57
240	Probing Charge Carrier Density in a Layer of Photodoped ZnO Nanoparticles by Spectroscopic Ellipsometry. Journal of Physical Chemistry C, 2010, 114, 14804-14810.	3.1	57
241	Photogeneration and Decay of Charge Carriers in Hybrid Bulk Heterojunctions of ZnO Nanoparticles and Conjugated Polymersâ€. Journal of Physical Chemistry B, 2006, 110, 10315-10321.	2.6	56
242	Diketopyrrolopyrrole-based acceptor polymers for photovoltaic application. Physical Chemistry Chemical Physics, 2011, 13, 8931.	2.8	56
243	Aqueous Nanoparticle Polymer Solar Cells: Effects of Surfactant Concentration and Processing on Device Performance. ACS Applied Materials & Interfaces, 2017, 9, 13380-13389.	8.0	56
244	Synthesis and Characterization of Long Perylenediimide Polymer Fibers:â€‰ From Bulk to the Single-Molecule Level. Journal of Physical Chemistry B, 2006, 110, 7803-7812.	2.6	55
245	Chiroptical properties of poly{2, 5-bis[(S)-2-methylbutoxy]-1, 4-phenylene vinylene}. Advanced Materials, 1997, 9, 493-496.	21.0	54
246	Stability studies and degradation analysis of plastic solar cell materials by FTIR spectroscopy. Synthetic Metals, 1999, 102, 1002-1003.	3.9	54
247	High-photovoltage all-polymer solar cells based on a diketopyrrolopyrroleâ€"isoindigo acceptor polymer. Journal of Materials Chemistry A, 2017, 5, 11693-11700.	10.3	54
248	Two-step mechanism for the photoinduced intramolecular electron transfer in oligo(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	3.2	53
249	In-Situ Compositional and Structural Analysis of Plastic Solar Cells. Advanced Functional Materials, 2002, 12, 665-669.	14.9	53
250	Fractal-like Self-Assembly of Oligo(p-phenylene vinylene) Capped Gold Nanoparticles. Journal of the American Chemical Society, 2006, 128, 686-687.	13.7	53
251	Effect of Extended Thiophene Segments in Small Band Gap Polymers with Thienopyrazine. Chemistry of Materials, 2009, 21, 1663-1669.	6.7	53
252	Large-area soft-imprinted nanowire networks as light trapping transparent conductors. Scientific Reports, 2015, 5, 11414.	3.3	53

#	Article	IF	Citations
253	Ï€-Dimers of Prototype High-Spin Polaronic Oligomers. Chemistry of Materials, 1998, 10, 1166-1175.	6.7	52
254	Synthesis, Characterization, and Electrooptical Properties of a New AlternatingN-Dodecylpyrroleâ^'Benzothiadiazole Copolymer. Macromolecules, 2001, 34, 2495-2501.	4.8	52
255	Characterization of tandem organic solar cells. Nature Photonics, 2015, 9, 478-479.	31.4	52
256	Controlling the Dominant Length Scale of Liquidâ€“Liquid Phase Separation in Spinâ€coated Organic Semiconductor Films. Advanced Functional Materials, 2015, 25, 855-863.	14.9	52
257	Conjugated Oligothienyl Dendrimers Based on a Pyrazino[2,3-g]quinoxaline Core. Organic Letters, 2009, 11, 4500-4503.	4.6	51
258	Efficient Electron Transport Layer Free Smallâ€Molecule Organic Solar Cells with Superior Device Stability. Advanced Materials, 2021, 33, e2008429.	21.0	51
259	Oddâ€“even effect in optically active poly(3,4-dialkoxythiophene). Chemical Communications, 1999, , 791-792.	4.1	50
260	Photoinduced Electron Transfer in Heterosupramolecular Assemblies of TiO2 Nanoparticles and Terthiophene Carboxylic Acid in Apolar Solvents. Advanced Functional Materials, 2002, 12, 519.	14.9	50
261	The influence of side chains on solubility and photovoltaic performance of dithiopheneâ€“thienopyrazine small band gap copolymers. Polymer, 2009, 50, 4564-4570.	3.8	50
262	Relating Substitution to Single-Chain Conformation and Aggregation in Poly(p-phenylene Vinylene) Films. Nano Letters, 2003, 3, 1191-1196.	9.1	49
263	Designing Acceptor Polymers for Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2011, 115, 3178-3187.	3.1	49
264	Quantification and Validation of the Efficiency Enhancement Reached by Application of a Retroreflective Light Trapping Texture on a Polymer Solar Cell. Advanced Energy Materials, 2013, 3, 1013-1017.	19.5	49
265	Thiophene Rings Improve the Device Performance of Conjugated Polymers in Polymer Solar Cells with Thick Active Layers. Advanced Energy Materials, 2017, 7, 1700519.	19.5	49
266	Photoinduced absorption of conjugated polymer/C60 solutions: Evidence of tripletâ€state photoexcitations and tripletâ€energy transfer in poly(3â€alkylthiophene). Journal of Chemical Physics, 1994, 100, 8641-8645.	3.0	48
267	End-group modification of regioregular poly(3-alkylthiophene)s. Chemical Communications, 2000, , 81-82.	4.1	48
268	Tetrafullerene Conjugates for All-Organic Photovoltaics. Journal of Organic Chemistry, 2008, 73, 3189-3196.	3.2	48
269	Depositing Fullerenes in Swollen Polymer Layers via Sequential Processing of Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1500464.	19.5	48
270	A regioregular terpolymer comprising two electron-deficient and one electron-rich unit for ultra small band gap solar cells. Chemical Communications, 2015, 51, 4290-4293.	4.1	48

#	Article	IF	Citations
271	Influence of injected charge carriers on photocurrents in polymer solar cells. Physical Review B, 2012, 85, .	3.2	47
272	Quasiâ€One Dimensional inâ€Plane Conductivity in Filamentary Films of PEDOT:PSS. Advanced Functional Materials, 2013, 23, 5778-5786.	14.9	47
273	Synthesis of regioregular poly(3-octylthiophene)s via Suzuki polycondensation and end-group analysis by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Journal of Polymer Science Part A, 2005, 43, 1454-1462.	2.3	46
274	Energy transfer in hybrid quantum dot light-emitting diodes. Journal of Applied Physics, 2008, 104, 013108.	2.5	46
275	The use of the focused ion beam technique to prepare cross-sectional transmission electron microscopy specimen of polymer solar cells deposited on glass. Polymer, 2002, 43, 7493-7496.	3.8	45
276	Field and temperature dependence of the photocurrent in polymer/fullerene bulk heterojunction solar cells. Applied Physics Letters, 2005, 87, 122104.	3.3	44
277	Surface Directed Phase Separation of Semiconductor Ferroelectric Polymer Blends and their Use in Nonâ€Volatile Memories. Advanced Functional Materials, 2015, 25, 278-286.	14.9	44
278	Singlet-energy transfer in quadruple hydrogen-bonded oligo(p-phenylenevinylene)perylene-diimide dyads. Organic and Biomolecular Chemistry, 2003, 1, 198-203.	2.8	43
279	Fast ambipolar integrated circuits with poly(diketopyrrolopyrrole- terthiophene). Applied Physics Letters, 2011, 98, .	3.3	43
280	Interchain Delocalization of Photoinduced Neutral and Charged States in Nanoaggregates of Lengthy Oligothiophenes. Journal of the American Chemical Society, 2001, 123, 6916-6924.	13.7	42
281	Synthesis, optical, and electrochemical properties of novel copolymers on the basis of benzothiadiazole and electron-rich arene units. Journal of Polymer Science Part A, 2002, 40, 2360-2372.	2.3	42
282	Open-Circuit Voltage Limitation in Low-Bandgap Diketopyrrolopyrrole-Based Polymer Solar Cells Processed from Different Solvents. Journal of Physical Chemistry C, 2011, 115, 15075-15080.	3.1	42
283	Nanoscale Organic Ferroelectric Resistive Switches. Journal of Physical Chemistry C, 2014, 118, 3305-3312.	3.1	42
284	Injection-limited electron current in a methanofullerene. Journal of Applied Physics, 2003, 94, 4477-4479.	2.5	41
285	Maximizing the open-circuit voltage of polymer: Fullerene solar cells. Applied Physics Letters, 2010, 97, .	3.3	41
286	A novel highâ€contrast ratio electrochromic material from spiro[cyclododecaneâ€1,9â€²â€fluorene]bicarbazole. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 333-341.	2.1	41
287	Polymerâ€“polymer solar cells with a near-infrared spectral response. Journal of Materials Chemistry A, 2015, 3, 6756-6760.	10.3	41
288	Ferromagnetic Spin Alignment in Head-to-Tail Coupled Oligo(1,4-phenyleneethynylene)s and Oligo(1,4-phenylenevinylene)s Bearing Pendantp-Phenylenediamine Radical Cations. Journal of Organic Chemistry, 2000, 65, 5712-5719.	3.2	40

#	Article	IF	Citations
289	C60â^'exTTFâ^'C60Dumbbells:â€‰ Cooperative Effects Stemming from Two C60s on the Radical Ion Pair Stabilization. Organic Letters, 2005, 7, 1691-1694.	4.6	40
290	Phosphorescent Resonant Energy Transfer between Iridium Complexes. Journal of Physical Chemistry A, 2007, 111, 1381-1388.	2.5	40
291	Photoluminescence quenching in films of conjugated polymers by electrochemical doping. Physical Review B, 2014, 89, .	3.2	40
292	Circular Differential Scattering of Light in Films of Chiral Polyfluorene. Journal of Physical Chemistry B, 2007, 111, 5124-5131.	2.6	39
293	Electron transport in polyfluorene-based sandwich-type devices: Quantitative analysis of the effects of disorder and electron traps. Physical Review B, 2009, 80, .	3.2	39
294	Ambipolar Organic Triâ€Gate Transistor for Lowâ€Power Complementary Electronics. Advanced Materials, 2016, 28, 284-290.	21.0	39
295	Conjugated Polymers Based on Difluorobenzoxadiazole toward Practical Application of Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1702033.	19.5	39
296	Spacer length dependence of photoinduced electron transfer in heterosupramolecular assemblies of TiO2 nanoparticles and terthiophene. Journal of Materials Chemistry, 2004, 14, 2795.	6.7	38
297	Scanning tunneling spectroscopy on organic semiconductors: Experiment and model. Physical Review B, 2004, 70, .	3.2	38
298	Resistive Switching in Organic Memories with a Spin-Coated Metal Oxide Nanoparticle Layer. Journal of Physical Chemistry C, 2008, 112, 5254-5257.	3.1	38
299	Dual-emissive quantum dots for multispectral intraoperative fluorescence imaging. Biomaterials, 2010, 31, 6823-6832.	11.4	38
300	The effect of bias light on the spectral responsivity of organic solar cells. Organic Electronics, 2012, 13, 3284-3290.	2.6	38
301	All-solution-processed organic solar cells with conventional architecture. Solar Energy Materials and Solar Cells, 2013, 117, 267-272.	6.2	38
302	Effect of FÃ¶rster-mediated triplet-polaron quenching and triplet-triplet annihilation on the efficiency roll-off of organic light-emitting diodes. Journal of Applied Physics, 2016, 119, .	2.5	38
303	Polarized photoluminescence of oligothiophenes in nematic liquid crystalline matrices. Advanced Materials, 1996, 8, 651-654.	21.0	37
304	Photoinduced Multistep Energy and Electron Transfer in an Oligoanilineâ^'Oligo(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.5	37
305	Light harvesting tetrafullerene nanoarray for organic solar cells. Chemical Communications, 2006, , 514-516.	4.1	37
306	Analysis of hole transport in a polyfluorene-based copolymerâ€" evidence for the absence of correlated disorder. Applied Physics Letters, 2009, 94, 163307.	3.3	37

#	Article	IF	Citations
307	Fused ring thiophene-based poly(heteroarylene ethynylene)s for organic solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1759-1766.	6.2	37
308	Doping dynamics in light-emitting electrochemical cells. Organic Electronics, 2011, 12, 1746-1753.	2.6	37
309	Pulse-modulated multilevel data storage in an organic ferroelectric resistive memory diode. Scientific Reports, 2016, 6, 24407.	3.3	37
310	The Mechanism of Dedoping PEDOT:PSS by Aliphatic Polyamines. Journal of Physical Chemistry C, 2019, 123, 24328-24337.	3.1	37
311	Preferential hetero-dimer formation and equilibrium dynamics of self-complementary bifunctional oligo(p-phenylenevinylene) and C60ureido-pyrimidinone derivatives in solution. Chemical Communications, 2002, , 2888-2889.	4.1	36
312	On the efficiency of polymer solar cells. Nature Materials, 2007, 6, 704-704.	27.5	36
313	Shapeâ€Persistent Oligothienyleneâ€“Ethynyleneâ€Based Dendrimers: Synthesis, Spectroscopy and Electrochemical Characterization. Chemistry - A European Journal, 2009, 15, 13521-13534.	3.3	36
314	On the Origin of Small Band Gaps in Alternating Thiopheneâ^'Thienopyrazine Oligomers. Journal of Physical Chemistry A, 2009, 113, 10343-10350.	2.5	36
315	Accurate description of charge transport in organic field effect transistors using an experimentally extracted density of states. Physical Review B, 2012, 85, .	3.2	36
316	Highly Efficient Hybrid Polymer and Amorphous Silicon Multijunction Solar Cells with Effective Optical Management. Advanced Materials, 2016, 28, 2170-2177.	21.0	36
317	16.8% Monolithic all-perovskite triple-junction solar cells via a universal two-step solution process. Nature Communications, 2020, 11, 5254.	12.8	36
318	Monolithic Allâ€Perovskite Tandem Solar Cells with Minimized Optical and Energetic Losses. Advanced Materials, 2022, 34, e2110053.	21.0	36
319	Effect of structure on the solubility and photovoltaic properties of bis-diketopyrrolopyrrole molecules. Journal of Materials Chemistry A, 2013, 1, 15150.	10.3	35
320	Subâ€Micrometer Structure Formation during Spin Coating Revealed by Timeâ€Resolved In Situ Laser and Xâ€Ray Scattering. Advanced Functional Materials, 2017, 27, 1702516.	14.9	35
321	The Bottlenecks of Cs₂AgBiBr₆ Solar Cells: How Contacts and Slow Transients Limit the Performance. Advanced Optical Materials, 2021, 9, 2100202.	7.3	35
322	Charge Transfer Kinetics in Fullereneâ^'Oligomerâ^'Fullerene Triads Containing Alkylpyrrole Units. Journal of Physical Chemistry A, 2003, 107, 6218-6224.	2.5	34
323	TiO2 sensitized with an oligo(p-phenylenevinylene) carboxylic acid: a new model compound for a hybrid solar cell. Journal of Materials Chemistry, 2003, 13, 1054-1057.	6.7	34
324	Side Chain Mediated Electronic Contact between a Tetrahydro-4H-thiopyran-4-ylidene-Appended Polythiophene and CdTe Quantum Dots. Chemistry - A European Journal, 2006, 12, 8075-8083.	3.3	34

#	Article	IF	Citations
325	True ferroelectric switching in thin films of trialkylbenzene-1,3,5-tricarboxamide (BTA). Physical Chemistry Chemical Physics, 2016, 18, 23663-23672.	2.8	34
326	Simulating Phase Separation during Spin Coating of a Polymerâ€“Fullerene Blend: A Joint Computational and Experimental Investigation. ACS Applied Energy Materials, 2018, 1, 725-735.	5.1	34
327	Highâ€Accuracy Photoplethysmography Array Using Nearâ€Infrared Organic Photodiodes with Ultralow Dark Current. Advanced Optical Materials, 2020, 8, 1901989.	7.3	34
328	Photoinduced Multistep Electron Transfer in an Oligoanilineâ^'Oligo(p-phenylene Vinylene)â^'Perylene Diimide Molecular Array. Journal of Physical Chemistry A, 2004, 108, 8201-8211.	2.5	33
329	Solvent Mediated Intramolecular Photoinduced Electron Transfer in a Fluorene-Perylene Bisimide Derivative. Journal of Physical Chemistry A, 2006, 110, 12363-12371.	2.5	33
330	Band Gap Control in Diketopyrrolopyrroleâ€Based Polymer Solar Cells Using Electron Donating Side Chains. Advanced Energy Materials, 2013, 3, 674-679.	19.5	33
331	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. Advanced Energy Materials, 2020, 10, 2001589.	19.5	33
332	Understanding the Film Formation Kinetics of Sequential Deposited Narrowâ€Bandgap Pbâ€“Sn Hybrid Perovskite Films. Advanced Energy Materials, 2020, 10, 2000566.	19.5	33
333	Triplet radical pairs of 3-carboxyproxyl encapsulated in a dendritic box. Advanced Materials, 1995, 7, 561-564.	21.0	32
334	Photoinduced charge and energy transfer in dye-doped conjugated polymers. Thin Solid Films, 2006, 511-512, 581-586.	1.8	32
335	On the width of the recombination zone in ambipolar organic field effect transistors. Applied Physics Letters, 2008, 93, .	3.3	32
336	Broadening the absorption of conjugated polymers by â€œclickâ€•functionalization with phthalocyanines. Dalton Transactions, 2011, 40, 3979.	3.3	32
337	High balanced ambipolar charge carrier mobility in benzodipyrrolidone conjugated polymers. Journal of Materials Chemistry C, 2014, 2, 731-735.	5.5	32
338	High open circuit voltage polymer solar cells enabled by employing thiazoles in semiconducting polymers. Polymer Chemistry, 2016, 7, 5730-5738.	3.9	32
339	Structure of 6.pi.-electron four-membered rings containing second-row atoms. The Journal of Physical Chemistry, 1993, 97, 6384-6397.	2.9	31
340	Thermally Induced Transient Absorption of Light by Poly(3,4-ethylenedioxythiophene):Poly(styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Functional Materials, 2003, 13, 805-810.	14.9	31
341	Perfluoroalkyl-substituted conjugated polymers as electron acceptors for all-polymer solar cells: the effect of diiodoperfluoroalkane additives. Journal of Materials Chemistry A, 2016, 4, 7736-7745.	10.3	31
342	Surface Modification of Zinc Oxide Nanoparticles Influences the Electronic Memory Effects in ZnOâ^'Polystyrene Diodes. Journal of Physical Chemistry C, 2007, 111, 10150-10153.	3.1	30

#	Article	IF	Citations
343	Small Band Gap Oligothieno[3,4-b]pyrazines. Organic Letters, 2008, 10, 3513-3516.	4.6	30
344	Electron transport in the organic small-molecule material BAlq â€" the role of correlated disorder and traps. Organic Electronics, 2010, 11, 1408-1413.	2.6	30
345	Morphology and Efficiency: The Case of Polymer/ZnO Solar Cells. Advanced Energy Materials, 2013, 3, 615-621.	19.5	30
346	Charge transfer state energy in ternary bulk-heterojunction polymerâ€"fullerene solar cells. Journal of Photonics for Energy, 2014, 5, 057203.	1.3	30
347	Structureâ€"property relationships for bis-diketopyrrolopyrrole molecules in organic photovoltaics. Journal of Materials Chemistry A, 2016, 4, 10532-10541.	10.3	30
348	Allâ€Oxide MoO_x/SnO_x Charge Recombination Interconnects for Inverted Organic Tandem Solar Cells. Advanced Energy Materials, 2018, 8, 1702533.	19.5	30
349	Photoinduced intermolecular electron transfer between oligo(p-phenylene vinylene)s and N-methylfulleropyrrolidine in a polar solvent. Chemical Physics Letters, 2000, 328, 403-408.	2.6	29
350	Substitution and Preparation Effects on the Molecular-Scale Morphology of PPV Films. Macromolecules, 2005, 38, 7784-7792.	4.8	29
351	Relation between the built-in voltage in organic light-emitting diodes and the zero-field voltage as measured by electroabsorption. Physical Review B, 2010, 81, .	3.2	29
352	Effects of Cross-Conjugation on the Optical Absorption and Frontier Orbital Levels of Donorâ€"Acceptor Polymers. Macromolecules, 2015, 48, 2435-2443.	4.8	29
353	Triplet formation from the charge-separated state in blends of MDMO-PPV with cyano-containing acceptor polymers. Thin Solid Films, 2006, 511-512, 333-337.	1.8	28
354	High aspect ratio surface relief structures by photoembossing. Applied Physics Letters, 2007, 91, .	3.3	28
355	Synthesis and Photovoltaic Performance of Pyrazinoquinoxaline Containing Conjugated Thiophene-Based Dendrimers and Polymers. Macromolecules, 2013, 46, 2141-2151.	4.8	28
356	The Curious Outâ€ofâ€Plane Conductivity of PEDOT:PSS. Advanced Functional Materials, 2013, 23, 5787-5793.	14.9	28
357	Electroâ€optical Properties of Neutral and Radical Ion Thienosquaraines. Chemistry - A European Journal, 2016, 22, 10179-10186.	3.3	28
358	Control of Film Morphology by Folding Hydrogen-Bonded Oligo(p-phenylenevinylene) Polymers in Solution. Macromolecules, 2006, 39, 784-788.	4.8	27
359	The effect of oxygen on the efficiency of planar pâ€"iâ€"n metal halide perovskite solar cells with a PEDOT:PSS hole transport layer. Journal of Materials Chemistry A, 2018, 6, 6882-6890.	10.3	27
360	A poly(p-phenylene ethynylene vinylene) with pendant fullerenes. Synthetic Metals, 2001, 119, 171-172.	3.9	26

#	Article	IF	Citations
361	Energy Transfer and Polarized Emission in Cadmium Selenide Nanocrystal Solids with Mixed Dimensionality. Advanced Functional Materials, 2007, 17, 3829-3835.	14.9	26
362	Manipulating the Local Light Emission in Organic Lightâ€Emitting Diodes by using Patterned Selfâ€Assembled Monolayers. Advanced Materials, 2008, 20, 2703-2706.	21.0	26
363	Core-functionalized dendritic oligothiophenesâ€"novel donorâ€"acceptor systems. Journal of Materials Chemistry, 2009, 19, 4784.	6.7	26
364	Light Emission in the Unipolar Regime of Ambipolar Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2013, 23, 4133-4139.	14.9	26
365	Synthesis and Optical Properties of Pyrrolo[3,2-b]pyrrole-2,5(1H,4H)-dione (iDPP)-Based Molecules. Journal of Physical Chemistry A, 2013, 117, 2782-2789.	2.5	26
366	Optimized light-driven electrochemical water splitting with tandem polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 5107-5114.	10.3	26
367	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulkâ€Heterojunction Solar Cells. Angewandte Chemie, 2017, 129, 154-158.	2.0	26
368	Bilayerâ€"Ternary Polymer Solar Cells Fabricated Using Spontaneous Spreading on Water. Advanced Energy Materials, 2018, 8, 1802197.	19.5	26
369	Effect of Light-Induced Halide Segregation on the Performance of Mixed-Halide Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6650-6658.	5.1	26
370	Redox States and Associated Interchain Processes of Thienylenevinylene Oligomers. Chemistry - A European Journal, 2000, 6, 1698-1707.	3.3	26
371	Structure of C3v phosphoranyl and C4v phosphorane anion radicals. A quantum-chemical study. Journal of the American Chemical Society, 1984, 106, 3429-3437.	13.7	25
372	Stable triplet-state di(cation radical)s of a N-phenylaniline oligomer. Chemical Communications, 1996, , 267.	4.1	25
373	Pathways for Resonant Energy Transfer in Oligo(phenylenevinylene)â€"Fullerene Dyads: An Atomistic Model. Advanced Materials, 2006, 18, 1301-1306.	21.0	25
374	Predictive modeling of the current density and radiative recombination in blue polymer-based light-emitting diodes. Journal of Applied Physics, 2011, 109, 064502.	2.5	25
375	A New Approach to Modelâ€Based Simulation of Disordered Polymer Blend Solar Cells. Advanced Functional Materials, 2012, 22, 1236-1244.	14.9	25
376	Multi-bit organic ferroelectric memory. Organic Electronics, 2013, 14, 3399-3405.	2.6	25
377	The effect of side-chain substitution and hot processing on diketopyrrolopyrrole-based polymers for organic solar cells. Journal of Materials Chemistry A, 2017, 5, 13748-13756.	10.3	25
378	Subnaphthalocyanines as Electron Acceptors in Polymer Solar Cells: Improving Device Performance by Modifying Peripheral and Axial Substituents. Chemistry - A European Journal, 2018, 24, 6339-6343.	3.3	25

#	Article	IF	Citations
379	The Impact of Device Polarity on the Performance of Polymerâ€“Fullerene Solar Cells. Advanced Energy Materials, 2018, 8, 1800550.	19.5	25
380	Effect of Coâ€Solvents on the Crystallization and Phase Distribution of Mixedâ€Dimensional Perovskites. Advanced Energy Materials, 2021, 11, 2102144.	19.5	25
381	Unexpected Dimerization of Oxidized Fullerene-Oligothiophene-Fullerene Triads. Advanced Materials, 2000, 12, 908-911.	21.0	24
382	Time delayed collection field experiments on polymer: Fullerene bulk-heterojunction solar cells. Journal of Applied Physics, 2006, 100, 074509.	2.5	24
383	The chiroptical properties of chiral substituted poly[3-((3S)-3,7-dimethyloctyl)thiophene] as a function of film thickness. Chemical Physics Letters, 2007, 437, 193-197.	2.6	24
384	Ultrafast Charge and Triplet State Formation in Diketopyrrolopyrrole Low Band Gap Polymer/Fullerene Blends: Influence of Nanoscale Morphology of Organic Photovoltaic Materials on Charge Recombination to the Triplet State. Journal of Spectroscopy, 2017, 2017, 1-16.	1.3	24
385	Synthesis and characterization of new copolymers of thiophene and vinylene: Poly(thienylenevinylene)s and poly(terthienylenevinylene)s with thioether side chains. Journal of Polymer Science Part A, 1999, 37, 4629-4639.	2.3	23
386	Determination of the exciton singlet-to-triplet ratio in single-layer organic light-emitting diodes. Physical Review B, 2011, 83, .	3.2	23
387	Intramolecular Excimer Formation between 3,6-Di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione Chromophoric Groups Linked by a Flexible Alkyl Spacer. Journal of Physical Chemistry A, 2013, 117, 4828-4837.	2.5	23
388	Conjugated polymers with deep LUMO levels for field-effect transistors and polymerâ€“polymer solar cells. Journal of Materials Chemistry C, 2015, 3, 8255-8261.	5.5	23
389	Noncovalent semiconducting polymer monolayers for high-performance field-effect transistors. Progress in Polymer Science, 2021, 117, 101394.	24.7	23
390	Photoinduced electron transfer from conjugated polymers onto TiO2. Synthetic Metals, 1999, 101, 265-266.	3.9	22
391	Cluster synthesis of branched CdTe nanocrystals for use in light-emitting diodes. Nanotechnology, 2008, 19, 205602.	2.6	22
392	Connecting Scanning Tunneling Spectroscopy to Device Performance for Polymer:Fullerene Organic Solar Cells. ACS Nano, 2010, 4, 1385-1392.	14.6	22
393	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. Organic Electronics, 2013, 14, 523-534.	2.6	22
394	Increasing the horizontal orientation of transition dipole moments in solution processed small molecular emitters. Journal of Materials Chemistry C, 2017, 5, 6555-6562.	5.5	22
395	Solutionâ€Processed Tin Oxideâ€PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. Solar Rrl, 2019, 3, 1800366.	5.8	22
396	Design and synthesis of new processible donor-acceptor dyad and triads. Synthetic Metals, 2001, 119, 519-522.	3.9	21

#	Article	IF	Citations
397	Synthesis and Photophysical Properties of Conjugated Polymers with Pendant 9,10-Anthraquinone Units. Journal of Physical Chemistry B, 2008, 112, 4953-4960.	2.6	21
398	Intensive Chiroptical Properties of Chiral Polyfluorenes Associated with Fibril Formation. Journal of Physical Chemistry B, 2009, 113, 14047-14051.	2.6	21
399	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. ACS Applied Materials & Interfaces, 2019, 11, 10794-10800.	8.0	21
400	Revealing defective interfaces in perovskite solar cells from highly sensitive sub-bandgap photocurrent spectroscopy using optical cavities. Nature Communications, 2022, 13, 349.	12.8	21
401	Resolution and circular dichroism of an asymmetrically cage-opened [60]fullerene derivative. Chemical Communications, 1998, , 281-282.	4.1	20
402	Characterization of poly(p-phenylene vinylene)/methanofullerene blends of polymer solar cells by time-of-flight secondary ion mass spectrometry. Applied Surface Science, 2004, 231-232, 274-277.	6.1	20
403	Impact of Ï€-Conjugated Linkers on the Effective Exciton Binding Energy of Diketopyrrolopyrroleâ€“Dithienopyrrole Copolymers. Journal of Physical Chemistry C, 2020, 124, 27403-27412.	3.1	20
404	Tuning the Optical Characteristics of Diketopyrrolopyrrole Molecules in the Solid State by Alkyl Side Chains. Journal of Physical Chemistry C, 2020, 124, 25229-25238.	3.1	20
405	Transparent highly-oxidized conjugated polymer films from solution. Synthetic Metals, 1999, 101, 417-420.	3.9	19
406	Langmuir Films of an Oligo(p-phenylene vinylene) Functionalized with a Diaminotriazine Headgroup. Langmuir, 2001, 17, 3281-3285.	3.5	19
407	Polymer solar cells and infrared light emitting diodes: Dual function low bandgap polymer. Molecular Crystals and Liquid Crystals, 2002, 385, 93-100.	0.9	19
408	Bimolecular recombination in ambipolar organic field effect transistors. Organic Electronics, 2009, 10, 994-997.	2.6	19
409	Hybrid Polymer Solar Cells from Zinc Oxide and Poly(3-hexylselenophene). Journal of Physical Chemistry C, 2011, 115, 18901-18908.	3.1	19
410	Dihydropyrroloindoledione-based copolymers for organic electronics. Journal of Materials Chemistry C, 2013, 1, 2711.	5.5	19
411	Conjugated polymer with ternary electronâ€deficient units for ambipolar nanowire fieldâ€effect transistors. Journal of Polymer Science Part A, 2016, 54, 34-38.	2.3	19
412	Energy Level Tuning of Poly(phenyleneâ€altâ€dithienobenzothiadiazole)s for Low Photon Energy Loss Solar Cells. Macromolecular Chemistry and Physics, 2017, 218, 1600502.	2.2	19
413	Adjusting Aggregation Modes and Photophysical and Photovoltaic Properties of Diketopyrrolopyrroleâ€Based Small Molecules by Introducing Bâ†N Bonds. Chemistry - A European Journal, 2019, 25, 564-572.	3.3	19
414	A Selfâ€Assembled Smallâ€Moleculeâ€Based Holeâ€Transporting Material for Inverted Perovskite Solar Cells. Chemistry - A European Journal, 2020, 26, 10276-10282.	3.3	19

#	Article	IF	Citations
415	Electron capture phosphoranyl radicals in xâ€irradiated diphosphine disulfides. A single crystal ESR and ab initio quantum chemical study. Journal of Chemical Physics, 1986, 84, 3694-3708.	3.0	18
416	Persistent photoinduced electron transfer from functionalized dendrimers to Buckminsterfullerene. Advanced Materials, 1996, 8, 494-497.	21.0	18
417	Copolymers of Polyethylene and Perylenediimides through Ring-Opening Metathesis Polymerization. Macromolecules, 2008, 41, 1094-1103.	4.8	18
418	The effect of side-chain substitution on the aggregation and photovoltaic performance of diketopyrrolopyrrole-alt-dicarboxylic ester bithiophene polymers. Journal of Materials Chemistry A, 2018, 6, 20904-20915.	10.3	18
419	The effect of alkyl side chain length on the formation of two semi-crystalline phases in low band gap conjugated polymers. Journal of Materials Chemistry C, 2020, 8, 5856-5867.	5.5	18
420	Finetuning Hole-Extracting Monolayers for Efficient Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 16497-16504.	8.0	18
421	Efficient synthesis of high-spin meta-para-oligoanilines. Synthetic Metals, 1999, 103, 2287-2290.	3.9	17
422	Trapping of electrons in metal oxide-polymer memory diodes in the initial stage of electroforming. Applied Physics Letters, 2010, 97, .	3.3	17
423	Charge Separation and Recombination in Small Band Gap Oligomerâ”Fullerene Triads. Journal of Physical Chemistry B, 2010, 114, 14149-14156.	2.6	17
424	Evidence for space-charge-limited conduction in organic photovoltaic cells at open-circuit conditions. Physical Review B, 2013, 87, .	3.2	17
425	Lithium fluoride injection layers can form quasi-Ohmic contacts for both holes and electrons. Applied Physics Letters, 2014, 105, 123302.	3.3	17
426	Failure analysis in ITO-free all-solution processed organic solar cells. Journal of Materials Chemistry A, 2015, 3, 20567-20578.	10.3	17
427	Transition dipole moment orientation in films of solution processed fluorescent oligomers: investigating the influence of molecular anisotropy. Journal of Materials Chemistry C, 2016, 4, 6302-6308.	5.5	17
428	Improving Performance of Allâ€Polymer Solar Cells Through Backbone Engineering of Both Donors and Acceptors. Solar Rrl, 2018, 2, 1800247.	5.8	17
429	Radical cations in mixtures of phosphorus trichloride and dimethyl sulfide. A combined ESR and quantum chemical study. The Journal of Physical Chemistry, 1992, 96, 614-623.	2.9	16
430	Time-resolved microwave measurements of the polarizability of photoexcitons on conjugated polymer chains. , 1997, , .		16
431	High-Spin Cation Radicals of Methylenephosphoranes. Journal of the American Chemical Society, 1997, 119, 5398-5403.	13.7	16
432	Photoinduced singlet and triplet energy transfer in fullereneâ€“oligothiopheneâ€“fullerene triads. Synthetic Metals, 2001, 116, 123-127.	3.9	16

#	Article	IF	Citations
433	Charge Transfer in Supramolecular Coaggregates of Oligo(p-Phenylene Vinylene) and Perylene Bisimide in Water. ChemPhysChem, 2005, 6, 2029-2031.	2.1	16
434	Electro-optical studies on MDMO-PPV:PCBM bulk-heterojunction solar cells on the millisecond time scale: Trapped carriers. Organic Electronics, 2006, 7, 213-221.	2.6	16
435	Spatial modeling of the 3D morphology of hybrid polymer-ZnO solar cells, based on electron tomography data. Annals of Applied Statistics, 2011, 5, .	1.1	16
436	Measuring the current density â€“ voltage characteristics of individual subcells in two-terminal polymer tandem solar cells. Organic Electronics, 2011, 12, 660-665.	2.6	16
437	Development of a Perovskite Solar Cell Architecture for Opaque Substrates. Solar Rrl, 2020, 4, 2000385.	5.8	16
438	Efficient organic solar cells with small energy losses based on a wide-bandgap trialkylsilyl-substituted donor polymer and a non-fullerene acceptor. Chemical Engineering Journal, 2022, 435, 134878.	12.7	16
439	The .sigma.* and TBP-e radicals obtained by electron capture of four-coordinated phosphorus compounds. A single-crystal ESR study. Journal of the American Chemical Society, 1986, 108, 6145-6149.	13.7	15
440	Aggregation of perylenebisimid-polytetrahydrofuran copolymers. Synthetic Metals, 2001, 121, 1283-1284.	3.9	15
441	Design and synthesis of processible functional copolymers. Synthetic Metals, 2001, 119, 169-170.	3.9	15
442	Metallo-supramolecular oligo(p-phenylene vinylene)/[60]fullerene architectures: towards functional materials. Thin Solid Films, 2002, 403-404, 97-101.	1.8	15
443	Stochastic modeling and predictive simulations for the microstructure of organic semiconductor films processed with different spin coating velocities. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 045003.	2.0	15
444	Data retention in organic ferroelectric resistive switches. Organic Electronics, 2016, 31, 56-62.	2.6	15
445	Effect of Charge-Transfer State Energy on Charge Generation Efficiency via Singlet Fission in Pentaceneâ€“Fullerene Solar Cells. Journal of Physical Chemistry C, 2019, 123, 10253-10261.	3.1	15
446	Controlling the Microstructure of Conjugated Polymers in Highâ€Mobility Monolayer Transistors via the Dissolution Temperature. Angewandte Chemie, 2020, 132, 856-862.	2.0	15
447	A single-crystal ESR study on radicals derived from rac- and meso-1,2-dimethyl-1,2-diphenyldiphosphine disulfide: stereochemical selection in radical formation. Journal of the American Chemical Society, 1988, 110, 6001-6006.	13.7	14
448	Supramolecular fullerene architectures by quadruple hydrogen bonding. Synthetic Metals, 2003, 135-136, 801-803.	3.9	14
449	Biaxially Oriented CdSe Nanorods. Langmuir, 2009, 25, 10970-10974.	3.5	14
450	Chain Length Dependence in Diketopyrrolopyrrole/Thiophene Oligomers. Macromolecular Chemistry and Physics, 2011, 212, 515-520.	2.2	14

#	Article	IF	Citations
451	Fundamental Limitations for Electroluminescence in Organic Dualâ€Gate Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 4450-4455.	21.0	14
452	Indium Tin Oxide-Free Tandem Polymer Solar Cells on Opaque Substrates with Top Illumination. ACS Applied Materials & Interfaces, 2014, 6, 13937-13944.	8.0	14
453	The effect of branching in a semiconducting polymer on the efficiency of organic photovoltaic cells. Chemical Communications, 2016, 52, 92-95.	4.1	14
454	Accurate Characterization of Tripleâ€Junction Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1701664.	19.5	14
455	Quadruple Junction Polymer Solar Cells with Four Complementary Absorber Layers. Advanced Materials, 2018, 30, e1803836.	21.0	14
456	Color Determination from a Single Broadband Organic Photodiode. Advanced Optical Materials, 2020, 8, 1901722.	7.3	14
457	Pyreneâ€Based Smallâ€Molecular Hole Transport Layers for Efficient and Stable Narrowâ€Bandgap Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100454.	5.8	14
458	Perovskite Solar Cells on Polymerâ€Coated Smooth and Rough Steel Substrates. Solar Rrl, 2022, 6, .	5.8	14
459	The Intrinsic Photoluminescence Spectrum of Perovskite Films. Advanced Optical Materials, 2022, 10, .	7.3	14
460	The nature of three-electron P â¯ª S bonds studied by ESR. Chemical Physics Letters, 1990, 171, 127-130.	2.6	13
461	Enantioselective inversion of a chiral phosphinyl radical. A single-crystal ESR analysis of x-irradiated bis(2,4,6-tri-tert-butylphenyl)phosphinic chloride. Journal of the American Chemical Society, 1991, 113, 9471-9479.	13.7	13
462	Photoinduced absorption of Ï€-conjugated polymers in solution. Synthetic Metals, 1995, 69, 441-442.	3.9	13
463	Langmuir and Langmuirâ€“Blodgett films from the N-hexyl-pyrrole-thiophene (AB) semi-amphiphilic copolymer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 45-51.	4.7	13
464	Switching dynamics in non-volatile polymer memories. Organic Electronics, 2008, 9, 829-833.	2.6	13
465	High-efficiency dielectrophoretic ratchet. Physical Review E, 2012, 86, 041106.	2.1	13
466	Excitation Energy Shuttling in Oligothiopheneâ€“Diketopyrrolopyrroleâ€“Fullerene Triads. Journal of Physical Chemistry A, 2012, 116, 1146-1150.	2.5	13
467	Ferroelectric switching and electrochemistry of pyrrole substituted trialkylbenzene-1,3,5-tricarboxamides. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 673-683.	2.1	13
468	A Universal Route to Fabricate nâ€iâ€p Multiâ€Junction Polymer Solar Cells via Solution Processing. Solar Rrl, 2018, 2, 1800018.	5.8	13

#	Article	IF	Citations
469	The influence of siloxane side-chains on the photovoltaic performance of a conjugated polymer. RSC Advances, 2019, 9, 8740-8747.	3.6	13
470	Influence of Regioregularity on the Optoelectronic Properties of Conjugated Diketopyrrolopyrrole Polymers Comprising Asymmetric Monomers. Macromolecules, 2020, 53, 7749-7758.	4.8	13
471	Solvent effects on the Ï€-dimerization of cation radicals of conjugated oligomers. Synthetic Metals, 1999, 101, 373-374.	3.9	12
472	Light-induced ESR studies in conjugated polymer-fullerene composites. Synthetic Metals, 1999, 102, 1241-1242.	3.9	12
473	Effect of intrachain order on the chiroptical properties of chiral poly(p-phenylene vinylenes). Synthetic Metals, 1999, 102, 1105-1106.	3.9	12
474	Effect of Ion Coordination on the Conformational and Electronic Structure of 3,4-Bis(alkylthio)thiophenes. European Journal of Inorganic Chemistry, 2001, 2001, 821-828.	2.0	12
475	Synthesis and Properties of Redox-Active Dendrimers Containing Phenothiazines. European Journal of Organic Chemistry, 2001, 2001, 2123-2128.	2.4	12
476	Separation and characterization of oligomers by reversed-phase high-performance liquid chromatography; a study on well-defined oligothiophenes. Journal of Chromatography A, 2001, 911, 13-26.	3.7	12
477	Real-Space Measurement of the Potential Distribution Inside Organic Semiconductors. Physical Review Letters, 2002, 88, 096803.	7.8	12
478	Stimulation of electrical conductivity in a Ï€-conjugated polymeric conductor with infrared light. Journal of Applied Physics, 2002, 92, 7041-7050.	2.5	12
479	Photoinduced absorption spectroscopy on MDMO-PPV:PCBM solar cells under operation. Organic Electronics, 2007, 8, 325-335.	2.6	12
480	Large Electrically Induced Height and Volume Changes in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Thin Films. Chemistry of Materials, 2010, 22, 3670-3677.	6.7	12
481	The Role of Photon Energy in Free Charge Generation in Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2014, 4, 1400416.	19.5	12
482	3<scp>D</scp>â€morphology reconstruction of nanoscale phaseâ€separation in polymer memory blends. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1231-1237.	2.1	12
483	Thermal behaviour of dicarboxylic ester bithiophene polymers exhibiting a high open-circuit voltage. Journal of Materials Chemistry C, 2018, 6, 3731-3742.	5.5	12
484	The Effect of Î±â€Branched Side Chains on the Structural and Optoâ€Electronic Properties of Poly(Diketopyrrolopyrroleâ€•alt â€Terthiophene). Chemistry - A European Journal, 2020, 26, 14221-14228.	3.3	12
485	A single-crystal ESR and quantum chemical study of electron-capture trialkylphosphine sulfide and selenide radical anions with a three-electron bond. Journal of the American Chemical Society, 1988, 110, 3018-3026.	13.7	11
486	Intermolecular effects on the radiogenic formation of electron-capture phosphorus-centered radicals. A single-crystal ESR study of diastereoisomeric precursors. Journal of the American Chemical Society, 1990, 112, 938-944.	13.7	11

#	Article	IF	Citations
487	Photoluminescence enhancement in thin films of PbSe nanocrystals. Applied Physics Letters, 2008, 93, .	3.3	11
488	Anisotropic Dielectric Tensor for Chiral Polyfluorene at Optical Frequencies. Journal of Physical Chemistry B, 2009, 113, 14165-14171.	2.6	11
489	Exciton formation and light emission near the organicâ€“organic interface in small-molecule based double-layer OLEDs. Organic Electronics, 2012, 13, 2605-2614.	2.6	11
490	On the homocoupling of trialkylstannyl monomers in the synthesis of diketopyrrolopyrrole polymers and its effect on the performance of polymer-fullerene photovoltaic cells. RSC Advances, 2019, 9, 15703-15714.	3.6	11
491	Analysis of the Performance of Narrow-Bandgap Organic Solar Cells Based on a Diketopyrrolopyrrole Polymer and a Nonfullerene Acceptor. Journal of Physical Chemistry C, 2021, 125, 5505-5517.	3.1	11
492	Imide-Based Multielectron Anolytes as High-Performance Materials in Nonaqueous Redox Flow Batteries. ACS Applied Energy Materials, 2021, 4, 9248-9257.	5.1	11
493	Redox States and Associated Interchain Processes of Thienylenevinylene Oligomers. Chemistry - A European Journal, 2000, 6, 1698-1707.	3.3	10
494	Photoluminescence of supramolecular oligothiophene assemblies. Synthetic Metals, 2001, 121, 1259-1260.	3.9	10
495	Side-Chain-Functionalized Polyacetylenes, 2. Photovoltaic Properties. Macromolecular Rapid Communications, 2002, 23, 271-275.	3.9	10
496	Electrical Transport Study of Phenylene-Based Ï€-Conjugated Molecules in a Three-Terminal Geometry. Annals of the New York Academy of Sciences, 2003, 1006, 122-132.	3.8	10
497	Role of Hole Injection in Electroforming of LiF-Polymer Memory Diodes. Journal of Physical Chemistry C, 2012, 116, 12443-12447.	3.1	10
498	Carrier Recombination in Polymer Fullerene Solar Cells Probed by Reversible Exchange of Charge between the Active Layer and Electrodes Induced by a Linearly Varying Voltage. Journal of Physical Chemistry C, 2013, 117, 3210-3220.	3.1	10
499	Electrical conduction of LiF interlayers in organic diodes. Journal of Applied Physics, 2015, 117, .	2.5	10
500	Water Splitting with Series-Connected Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 26972-26981.	8.0	10
501	Light-Driven Electrochemical Carbon Dioxide Reduction to Carbon Monoxide and Methane Using Perovskite Photovoltaics. Cell Reports Physical Science, 2020, 1, 100058.	5.6	10
502	Structural design of asymmetric diketopyrrolopyrrole polymers for organic solar cells processed from a non-halogenated solvent. Organic Electronics, 2020, 86, 105914.	2.6	10
503	Effect of main and side chain chlorination on the photovoltaic properties of benzodithiophene-alt-benzotriazole polymers. Journal of Materials Chemistry C, 2020, 8, 15426-15435.	5.5	10
504	Photochromic organic solar cells based on diarylethenes. RSC Advances, 2020, 10, 30176-30185.	3.6	10

#	Article	IF	Citations
505	pâ€“iâ€“n Perovskite Solar Cells on Steel Substrates. ACS Applied Energy Materials, 2022, 5, 6709-6715.	5.1	10
506	Photoinduced energy and electron transfer in a C60â€“6Tâ€“C60 triad. Synthetic Metals, 2001, 121, 1597-1598.	3.9	9
507	Extraction of the materials parameters that determine the mobility in disordered organic semiconductors from the current-voltage characteristics: Accuracy and limitations. Journal of Applied Physics, 2013, 113, 114505.	2.5	9
508	Dielectric interface-dependent spatial charge distribution in ambipolar polymer semiconductors embedded in dual-gate field-effect transistors. Applied Physics Letters, 2016, 109, .	3.3	9
509	Intermolecular-directed reactivity in solid media. Radiogenic formation of phosphorus-centered radicals in chiral diphosphine disulfides studied by ESR. Journal of the American Chemical Society, 1990, 112, 5432-5447.	13.7	8
510	Exciton coupling in oligothiophenes: A combined experimental/theoretical study. Synthetic Metals, 1999, 102, 912-913.	3.9	8
511	CW-Photocurrent measurements of conjugated polymers and fullerenes blended into a conventional polymer matrix. Synthetic Metals, 1999, 102, 1285-1286.	3.9	8
512	A convergent synthesis of (diphenylvinyl)benzene (DPVB) star-shaped compounds with tunable redox, photo- and electroluminescent properties. Journal of Materials Chemistry, 2007, 17, 4274.	6.7	8
513	The synthesis and photovoltaic performance of regioregular poly[3-(n-butoxymethyl)thiophene]. Thin Solid Films, 2008, 516, 7176-7180.	1.8	8
514	Hybrid Polymer-Inorganic Photovoltaic Cells. , 2009, , 321-385.		8
515	A MULTISCALE APPROACH TO THE REPRESENTATION OF 3D IMAGES, WITH APPLICATION TO POLYMER SOLAR CELLS. Image Analysis and Stereology, 2011, 30, 19.	0.9	8
516	Superheated high-temperature size-exclusion chromatography with chloroform as the mobile phase for Ï€-conjugated polymers. Polymer Chemistry, 2014, 5, 558-561.	3.9	8
517	Relation between the Electronic Properties of Regioregular Donorâ€“Acceptor Terpolymers and Their Binary Copolymers. Journal of Physical Chemistry C, 2020, 124, 3503-3516.	3.1	8
518	Thin Thermally Evaporated Organic Hole Transport Layers for Reduced Optical Losses in Substrate-Configuration Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 3033-3043.	5.1	8
519	Radical cations of bis(diphenylphosphino) derivatives (Ph2P-R-PPh2): the formation of localized, cyclic, and dimeric configurations; an ESR and quantum chemical study. The Journal of Physical Chemistry, 1991, 95, 9256-9263.	2.9	7
520	Photoinduced ft-ir spectroscopy of conjugated polymer/fullerene composites embedded into conventional host polymer matrices. Synthetic Metals, 1999, 101, 192-193.	3.9	7
521	Picosecond energy transfer in oligo(p-phenylene vinylene) capped gold nanoparticles. Chemical Physics Letters, 2007, 433, 340-344.	2.6	7
522	Design and synthesis of side-chain functionalized regioregular poly(3-hexylthiophene)-based copolymers and application in polymer:fullerene bulk heterojunction solar cells. Proceedings of SPIE, 2009, , .	0.8	7

#	Article	IF	Citations
523	Large Photoinduced Circular Dichroism in Chiral Polyfluorene. Journal of Physical Chemistry A, 2009, 113, 10891-10894.	2.5	7
524	An ESR study on electron-capture phosphorus-centred radicals in solid matrices of alkyl/phenyl phosphine sulfides and selenides. Recueil Des Travaux Chimiques Des Pays-Bas, 2010, 108, 262-267.	0.0	7
525	Spatial resolution of methods for measuring the light-emission profile in organic light-emitting diodes. Journal of Applied Physics, 2011, 110, 084512.	2.5	7
526	The performance of organic electronic ratchets. AIP Advances, 2012, 2, .	1.3	7
527	Probing Electric Fields in Polymer Tandem and Single Junction Cells with Electroabsorption Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 4374-4382.	3.1	7
528	Diffusion enhancement in on/off ratchets. Applied Physics Letters, 2013, 102, .	3.3	7
529	New nâ€Type Solution Processable All Conjugated Polymer Network: Synthesis, Optoelectronic Characterization, and Application in Organic Solar Cells. Macromolecular Rapid Communications, 2018, 39, 1700629.	3.9	7
530	Ab initio study of isotropic and anisotropic hyperfine interactions in phosphoranyl and phosphorane anion radicals. Computational and Theoretical Chemistry, 1984, 110, 139-153.	1.5	6
531	Triplet-State Phosphoryl Diradicals. The Journal of Physical Chemistry, 1995, 99, 9331-9336.	2.9	6
532	Triplet-state phosphinyl diradicals. Chemical Communications, 1996, , 1919.	4.1	6
533	Thermochromism in the triplet excited state of poly(3-octylthiophene). Synthetic Metals, 1999, 101, 177.	3.9	6
534	Synthesis and characterization of novel regioregular polythiophenes. Synthetic Metals, 2001, 119, 369-370.	3.9	6
535	Non-linearity in the Iâ€“V characteristic of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonic acid) (PEDOT:PSS) due to Joule heating. Organic Electronics, 2004, 5, 207-211.	2.6	6
536	Organoselenium-substituted poly(p-phenylenevinylene). Heteroatom Chemistry, 2005, 16, 656-662.	0.7	6
537	Themed issue: solar cells. Journal of Materials Chemistry, 2009, 19, 5276.	6.7	6
538	Scaling of characteristic frequencies of organic electronic ratchets. Physical Review B, 2012, 85, .	3.2	6
539	Synthesis, characterization and device optimisation of new poly(benzo[1,2-b:4,5-bâ€²]dithiophene-alt-thieno[3,4-d]thiazole) derivatives for solar cell applications. Polymer Chemistry, 2015, 6, 3956-3961.	3.9	6
540	Bis(arylimidazole) Iridium Picolinate Emitters and Preferential Dipole Orientation in Films. ACS Omega, 2018, 3, 2673-2682.	3.5	6

#	Article	IF	Citations
541	The SPCl2F- phosphoranyl radical. Chemical Physics Letters, 1986, 132, 459-463.	2.6	5
542	Reactivity in molecular crystals: Radical formation in chiral phosphorus compounds. Heteroatom Chemistry, 1991, 2, 39-43.	0.7	5
543	Photoinduced Electron Transfer Between Conjugated Polymers and a Homologous Series of TCNQ Derivatives. Journal De Physique, I, 1996, 6, 2151-2158.	1.2	5
544	Relation between the electroforming voltage in alkali halide-polymer diodes and the bandgap of the alkali halide. Applied Physics Letters, 2014, 105, 233502.	3.3	5
545	Effects of fluorination and thermal annealing on charge recombination processes in polymer bulk-heterojunction solar cells. Journal of Materials Chemistry A, 2018, 6, 19520-19531.	10.3	5
546	Use of Sodium Diethyldithiocarbamate to Enhance the Openâ€Circuit Voltage of CH₃NH₃PbI₃ Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000811.	5.8	5
547	Study of the morphology of organic ferroelectric diodes with combined scanning force and scanning transmission X-ray microscopy. Organic Electronics, 2018, 53, 242-248.	2.6	5
548	Infrared Photoexcitation Spectroscopy of Conducting Polymer and C60 Composites: Direct Evidence of Photo-Induced Electron Transfer. Molecular Crystals and Liquid Crystals, 1994, 256, 739-744.	0.3	4
549	Photoinduced absorption spectroscopy of oligothiophene/C60 mixtures in films and solutions. Synthetic Metals, 1995, 70, 1345-1346.	3.9	4
550	Langmuir films from semi-amphiphilic sequence-controlled heterocyclic copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 313-321.	4.7	4
551	Controlling morphology and photovoltaic properties by chemical structure in copolymers of cyclopentadithiophene and thiophene segments. Solar Energy Materials and Solar Cells, 2010, 94, 2218-2222.	6.2	4
552	Delayed Fluorescence in Perhydrotriphenyleneâ€“Oligothiophene Inclusion Compounds: Evidence for Molecular Oxygen-Related Excited States. Journal of Physical Chemistry A, 2011, 115, 7966-7971.	2.5	4
553	Reply to 'Tandem organic solar cells revisited'. Nature Photonics, 2016, 10, 355-355.	31.4	4
554	Singlet oxygen formation from photoexcited P3HT:PCBM films applied in oxidation reactions. Materials Advances, 2022, 3, 2063-2069.	5.4	4
555	Triplet-state photoexcitations and triplet-energy transfer in poly(3-alkylthiophene)/C60 solutions. Synthetic Metals, 1995, 70, 1343-1344.	3.9	3
556	Triplet-state phosphoryl biradicals. Synthetic Metals, 1995, 71, 1833-1834.	3.9	3
557	Langmuir film of regioregular poly(4-dodecyl-2,2â€²-bithiophene). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 323-330.	4.7	3
558	Relating the morphology of a poly(p-phenylene vinylene)/methanofullerene blend to bulk heterojunction solar cell performance. , 2004, , .		3

#	Article	IF	Citations
559	Introduction to the Issue on Next-Generation Organic and Hybrid Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1512-1513.	2.9	3
560	Scanning tunnelling microscopy on organic field-effect transistors based on intrinsic pentacene. Applied Physics Letters, 2014, 104, 263301.	3.3	3
561	Triplet State Photoexcitations in Frozen Solutions of Oligothiophenes. Molecular Crystals and Liquid Crystals, 1994, 256, 487-492.	0.3	2
562	Langmuir films from tailor-made semi-amphiphilic alternating (AB) heterocyclic copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 331-338.	4.7	2
563	Hybrid ZnO:polymer bulk heterojunction solar cells from a ZnO precursor. , 2005, , .		2
564	Contactless charge carrier mobility measurement in organic field-effect transistors. Organic Electronics, 2014, 15, 2855-2861.	2.6	2
565	1000-Pixels per Inch Transistor Arrays Using Multi-Level Imprint Lithography. IEEE Electron Device Letters, 2020, 41, 1217-1220.	3.9	2
566	Polymorphism of a semiâ€crystalline diketopyrrolopyrroleâ€terthiophene polymer. Journal of Polymer Science, 2021, 59, 1285-1292.	3.8	2
567	CHAPTER 11. Multi-Junction Polymer Solar Cells. RSC Polymer Chemistry Series, 2015, , 310-351.	0.2	2
568	Absorbing infrared light in polymer solar cells. SPIE Newsroom, 2006, , .	0.1	2
569	Electron Transfer and Energy Transfer Reactions in Photoexcited Î±-Nonathiophene/C₆₀ Films and Solutions. Molecular Crystals and Liquid Crystals, 1994, 256, 921-926.	0.3	1
570	PHOTOEXCITATIONS IN CONJUGATED OLIGOMERS. , 1998, , 524-558.		1
571	Astramol polypropyleneimine dendrimers as norrish type II amine synergists. Journal of Coatings Technology and Research, 2000, 83, 119-124.	0.2	1
572	Towards increasing the photon harvesting in bulk heterojunction polymer solar cells. , 2003, 4801, 22.		1
573	PLASTIC INFRARED DETECTORS BASED ON POLY(3,4-ETHYLENEDIOXYTHIOPHENE):POLY(STYRENE SULFONIC) Tj ETQq1 1 0.784314 gr	1.9	1
574	Low band gap polymer: fullerene solar cells. , 2005, , .		1
575	Monte-Carlo simulations of geminate electron-hole pair dissociation in a molecular heterojunction. , 2005, , .		1
576	Hybrid bulk heterojunction solar cells: blends of ZnO semiconducting nanoparticles and conjugated polymers. , 2005, , .		1

#	Article	IF	Citations
577	Evidence for exciton quenching by hole polarons in thick P3HT:PCBM solar cells. , 2016, , .		1
578	Organic and Hybrid Solar Cells Based on Well-Defined Organic Semiconductors and Morphologies. Advances in Polymer Science, 2017, , 25-49.	0.8	1
579	Investigation of Exciton Coupling in Oligothiophenes by Circular Dichroism Spectroscopy. , 1998, 10, 1343.		1
580	Stereochemical Selection in Phosphoranyl Radical Formation Using Ionizing Radiation. Phosphorus, Sulfur and Silicon and the Related Elements, 1990, 51, 288-288.	1.6	0
581	Combinatorial Chemistry Approach to Development of Molecular Plastic Solar Cells. , 1999, , .		0
582	Measuring the potential distribution inside soft organic semiconductors with a scanning-tunneling microscope. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 1247-1250.	2.7	0
583	Crowned Dendrimers: pH-Responsive Pseudorotaxane Formation.. ChemInform, 2003, 34, no.	0.0	0
584	Exciplex dynamics in a conjugated polymer blend of MDMO-PPV and PCNEPV. , 2005, , .		0
585	Organic multi-junction solar cells processed from solution with sensitivity from ultraviolet to the near infrared. , 2006, , .		0
586	Electronic Memory Effects in Zinc Oxide Nanoparticle -Polystyrene Devices with a Calcium Top Electrode. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
587	Plastic Solar Cells: Understanding the Special Additive. Frontiers for Young Minds, 2015, 3, .	0.8	0
588	Kinetic Monte Carlo simulation of the efficiency roll-off, emission color, and degradation of organic light-emitting diodes (Presentation Recording). , 2015, , .		0
589	Thin Films: Subâ€Micrometer Structure Formation during Spin Coating Revealed by Timeâ€Resolved In Situ Laser and Xâ€Ray Scattering (Adv. Funct. Mater. 46/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
590	Efficient Solar Cells Based on a Polymer Donor with Î²-Branching in Trialkylsilyl Side Chains. Organic Materials, 2021, 03, 134-140.	2.0	0
591	Bulk Heterojunction Polymer Solar Cells. , 2005, , .		0
592	Effect of Coâ€Solvents on the Crystallization and Phase Distribution of Mixedâ€Dimensional Perovskites (Adv. Energy Mater. 42/2021). Advanced Energy Materials, 2021, 11, 2170168.	19.5	0
593	Material and Device Design for Highly Efficient Organic Solar Cells. , 0, , .		0
594	The Intrinsic Photoluminescence Spectrum of Perovskite Films (Advanced Optical Materials 8/2022). Advanced Optical Materials, 2022, 10, .	7.3	0

#	Article	IF	Citations
595	The Intrinsic Photoluminescence Spectrum of Perovskite Films. , 0, , .		0