

Ji-Seon Kim

List of Publications by Year in descending order

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155
papers

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29994

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160
docs citations

160
times ranked

11640
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppressing PEDOT:PSS Doping-Induced Interfacial Recombination Loss in Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 560-568.	8.8	47
2	Dynamic molecular conformational change leading to energy transfer in F8-5% BSP copolymer revealed by single-molecule spectroscopy. Journal of Chemical Physics, 2022, 156, 074704.	1.2	3
3	Insight into the Origin of Trapping in Polymer/Fullerene Blends with a Systematic Alteration of the Fullerene to Higher Adducts. Journal of Physical Chemistry C, 2022, 126, 2708-2719.	1.5	1
4	Organic Bilayer Photovoltaics for Efficient Indoor Light Harvesting. Advanced Energy Materials, 2022, 12, .	10.2	35
5	Properties and Applications of Copper(I) Thiocyanate Hole-Transport Interlayers Processed from Different Solvents. Advanced Electronic Materials, 2022, 8, .	2.6	9
6	Efficient Charge Transport Driven by Strong Intermolecular Interactions in Cyclopentadithiophene-Based Donor-Acceptor Type Conjugated Copolymers. Advanced Electronic Materials, 2022, 8, .	2.6	8
7	The Role of Long-Alkyl-Group Spacers in Glycolated Copolymers for High-Performance Organic Electrochemical Transistors. Advanced Materials, 2022, 34, e2202574.	11.1	21
8	Optimizing Interfacial Energetics for Conjugated Polyelectrolyte Electron Injection Layers in High Efficiency and Fast Responding Polymer Light Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 24668-24680.	4.0	1
9	Enhancing hole carrier injection via low electrochemical doping on circularly polarized polymer light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9512-9520.	2.7	11
10	Light-intensity-dependent photoresponse time of organic photodetectors and its molecular origin. Nature Communications, 2022, 13, .	5.8	31
11	Strong Intermolecular Interactions Induced by High Quadrupole Moments Enable Excellent Photostability of Non-Fullerene Acceptors for Organic Photovoltaics. Advanced Energy Materials, 2022, 12, .	10.2	10
12	One-Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Air-Stable High-Performance n-Type Organic Field-Effect Transistors. Angewandte Chemie - International Edition, 2021, 60, 5970-5977.	7.2	34
13	Identifying the Molecular Origins of High-Performance in Organic Photodetectors Based on Highly Intermixed Bulk Heterojunction Blends. ACS Nano, 2021, 15, 1217-1228.	7.3	19
14	One-Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Air-Stable High-Performance n-Type Organic Field-Effect Transistors. Angewandte Chemie, 2021, 133, 6035-6042.	1.6	2
15	Novel scalable aerosol-assisted CVD route for perovskite solar cells. Materials Advances, 2021, 2, 1606-1612.	2.6	10
16	A Commercial Benchmark: Light-Soaking Free, Fully Scalable, Large-Area Organic Solar Cells for Low-Light Applications. Advanced Energy Materials, 2021, 11, 2003405.	10.2	48
17	Organic cathode interfacial materials for non-fullerene organic solar cells. Journal of Materials Chemistry A, 2021, 9, 13506-13514.	5.2	21
18	Selenium-Substituted Non-Fullerene Acceptors: A Route to Superior Operational Stability for Organic Bulk Heterojunction Solar Cells. ACS Nano, 2021, 15, 7700-7712.	7.3	36

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19	Bevel Structure Based XPS Analysis as a Non-Destructive Chemical Probe for Complex Interfacial Structures of Organic Semiconductors. <i>Small Methods</i> , 2021, 5, 2001264.	4.6	1
20	Solid-State Ionic Liquid: Key to Efficient Detection and Discrimination in Organic Semiconductor Gas Sensors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2152-2163.	2.0	4
21	Triplet-Charge Annihilation in a Small Molecule Donor: Acceptor Blend as a Major Loss Mechanism in Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2021, 11, 2100539.	10.2	16
22	Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. <i>Cell Reports Physical Science</i> , 2021, 2, 100498.	2.8	35
23	High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence. <i>Nature Communications</i> , 2021, 12, 4868.	5.8	62
24	Determining Out-of-Plane Hole Mobility in CuSCN via the Time-of-Flight Technique To Elucidate Its Function in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38499-38507.	4.0	4
25	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003002.	10.2	146
26	Optimal Interfacial Band Bending Achieved by Fine Energy Level Tuning in Mixed-Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 3970-3981.	8.8	18
27	Organic-inorganic hybrid composites as an electron injection layer in highly efficient inverted green-emitting polymer LEDs. <i>Organic Electronics</i> , 2020, 77, 105496.	1.4	5
28	A highly sensitive molecular structural probe applied to in situ biosensing of metabolites using PEDOT:PSS. <i>Biotechnology and Bioengineering</i> , 2020, 117, 291-299.	1.7	26
29	Origin of Open-Circuit Voltage Enhancements in Planar Perovskite Solar Cells Induced by Addition of Bulky Organic Cations. <i>Advanced Functional Materials</i> , 2020, 30, 1906763.	7.8	47
30	Poly(3-hexylthiophene-2,5-diyl): Evidence of different polymer chain conformations in the solid state from a combined study of regioregularity control and Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2020, 1221, 128882.	1.8	4
31	Real-Time Monitoring of Formation and Dynamics of Intra- and Interchain Phases in Single Molecules of Polyfluorene. <i>ACS Nano</i> , 2020, 14, 16096-16104.	7.3	12
32	Molecular-level electrochemical doping for fine discrimination of volatile organic compounds in organic chemiresistors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16884-16891.	5.2	8
33	Molecular understanding of a π -conjugated polymer/solid-state ionic liquid complex as a highly sensitive and selective gas sensor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15268-15276.	2.7	25
34	Orientation dependent molecular electrostatics drives efficient charge generation in homojunction organic solar cells. <i>Nature Communications</i> , 2020, 11, 4617.	5.8	60
35	Small molecule additive for low-power accumulation mode organic electrochemical transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8846-8855.	2.7	14
36	Nitrogen-Doped Carbon Dots/TiO ₂ Nanoparticle Composites for Photoelectrochemical Water Oxidation. <i>ACS Applied Nano Materials</i> , 2020, 3, 3371-3381.	2.4	71

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37	Exceptionally low charge trapping enables highly efficient organic bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 2422-2430.	15.6	152
38	Towards Efficient Integrated Perovskite/Organic Bulk Heterojunction Solar Cells: Interfacial Energetic Requirement to Reduce Charge Carrier Recombination Losses. <i>Advanced Functional Materials</i> , 2020, 30, 2001482.	7.8	43
39	Efficient Charge Carrier Injection and Balance Achieved by Low Electrochemical Doping in Solution-Processed Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2019, 29, 1904092.	7.8	18
40	p-Doping of organic hole transport layers in perovskite solar cells: correlating open-circuit voltage and photoluminescence quenching. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18971-18979.	5.2	55
41	Tail state limited photocurrent collection of thick photoactive layers in organic solar cells. <i>Nature Communications</i> , 2019, 10, 5159.	5.8	65
42	Fluorine doped tin oxide as an alternative of indium tin oxide for bottom electrode of semi-transparent organic photovoltaic devices. <i>AIP Advances</i> , 2019, 9, .	0.6	73
43	Benzoselenadiazole and benzotriazole directed electrophilic C-H borylation of conjugated donor-acceptor materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 718-724.	2.7	22
44	Impact of Initial Bulk Heterojunction Morphology on Operational Stability of Polymer:Fullerene Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801763.	1.9	12
45	Colour in bivalve shells: Using resonance Raman spectroscopy to compare pigments at different phylogenetic levels. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1527-1536.	1.2	7
46	From fullerene acceptors to non-fullerene acceptors: prospects and challenges in the stability of organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23361-23377.	5.2	163
47	Suppression of Recombination Losses in Polymer:Nonfullerene Acceptor Organic Solar Cells due to Aggregation Dependence of Acceptor Electron Affinity. <i>Advanced Energy Materials</i> , 2019, 9, 1901254.	10.2	54
48	3D Hybrid Scaffolds Based on PEDOT:PSS/MWCNT Composites. <i>Frontiers in Chemistry</i> , 2019, 7, 363.	1.8	39
49	Toward Improved Environmental Stability of Polymer:Fullerene and Polymer:Nonfullerene Organic Solar Cells: A Common Energetic Origin of Light- and Oxygen-Induced Degradation. <i>ACS Energy Letters</i> , 2019, 4, 846-852.	8.8	71
50	A versatile star-shaped organic semiconductor based on benzodithiophene and diketopyrrolopyrrole. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6622-6629.	2.7	16
51	Bi ₂ Fe ₄ O ₉ thin films as novel visible-light-active photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9537-9541.	5.2	35
52	Twist and Degrade—Impact of Molecular Structure on the Photostability of Nonfullerene Acceptors and Their Photovoltaic Blends. <i>Advanced Energy Materials</i> , 2019, 9, 1803755.	10.2	95
53	Impact of molecular conformation on triplet-fusion induced photon energy up-conversion in the absence of exothermic triplet energy transfer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3634-3643.	2.7	7
54	Origin of Open-Circuit Voltage Losses in Perovskite Solar Cells Investigated by Surface Photovoltage Measurement. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46808-46817.	4.0	66

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55	BMP-2 functionalized PEDOT:PSS-based OECTs for stem cell osteogenic differentiation monitoring. Flexible and Printed Electronics, 2019, 4, 044006.	1.5	11
56	Controlling Molecular Conformation for Highly Efficient and Stable Deep-Blue Copolymer Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 11070-11082.	4.0	20
57	Impact of Molecular Order on Polaron Formation in Conjugated Polymers. Journal of Physical Chemistry C, 2018, 122, 29129-29140.	1.5	36
58	Impact of Structural Polymorphs on Charge Collection and Nongeminate Recombination in Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2018, 122, 29141-29149.	1.5	5
59	Control of Interface Defects for Efficient and Stable Quasi-2D Perovskite Light-Emitting Diodes Using Nickel Oxide Hole Injection Layer. Advanced Science, 2018, 5, 1801350.	5.6	92
60	Photo-stability study of a solution-processed small molecule solar cell system: correlation between molecular conformation and degradation. Science and Technology of Advanced Materials, 2018, 19, 194-202.	2.8	12
61	Novel patterning of flexible and transparent Ag nanowire electrodes using oxygen plasma treatment. Journal of Materials Chemistry C, 2018, 6, 9394-9398.	2.7	28
62	Raman spectroscopy as an advanced structural nanoprobe for conjugated molecular semiconductors. Journal Physics D: Applied Physics, 2017, 50, 073001.	1.3	86
63	Effects of Side-Chain Length and Shape on Polytellurophene Molecular Order and Blend Morphology. Journal of Physical Chemistry C, 2017, 121, 2088-2098.	1.5	28
64	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. Advanced Energy Materials, 2017, 7, 1602596.	10.2	62
65	Impact of Fullerene Intercalation on Structural and Thermal Properties of Organic Photovoltaic Blends. Journal of Physical Chemistry C, 2017, 121, 20976-20985.	1.5	6
66	An Efficient, H_2O -Free Organic Solar Cell Employing a Nonfullerene Electron Acceptor. Advanced Materials, 2017, 29, 1701156.	11.1	175
67	Comparing blends and blocks: Synthesis of partially fluorinated diblock polythiophene copolymers to investigate the thermal stability of optical and morphological properties. Beilstein Journal of Organic Chemistry, 2016, 12, 2150-2163.	1.3	6
68	1 GHz Pentacene Diode Rectifiers Enabled by Controlled Film Deposition on SAM-Treated Au Anodes. Advanced Electronic Materials, 2016, 2, 1500282.	2.6	48
69	Spectroscopic Investigations of Three-Phase Morphology Evolution in Polymer: Fullerene Solar Cell Blends. Journal of Physical Chemistry C, 2016, 120, 10806-10814.	1.5	41
70	Spectroscopic properties of poly(9,9-dioctylfluorene) thin films possessing varied fractions of π -phase chain segments: enhanced photoluminescence efficiency via conformation structuring. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1995-2006.	2.4	69
71	Systematic control of heteroatoms in donor-acceptor copolymers and its effects on molecular conformation and photovoltaic performance. Journal of Materials Chemistry C, 2016, 4, 7966-7978.	2.7	14
72	Optimization and Analysis of Conjugated Polymer Side Chains for High-Performance Organic Photovoltaic Cells. Advanced Functional Materials, 2016, 26, 1517-1525.	7.8	67

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73	Interfacial Chemical Composition and Molecular Order in Organic Photovoltaic Blend Thin Films Probed by Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 31469-31481.	4.0	12
74	Organic Photovoltaics: Optimization and Analysis of Conjugated Polymer Side Chains for High-Performance Organic Photovoltaic Cells (Adv. Funct. Mater. 10/2016). Advanced Functional Materials, 2016, 26, 1668-1668.	7.8	1
75	Operational electrochemical stability of thiophene-thiazole copolymers probed by resonant Raman spectroscopy. Journal of Chemical Physics, 2015, 142, 244904.	1.2	14
76	Organic Transistors: Self-Aligned Megahertz Organic Transistors Solution-Processed on Plastic (Adv. Tj ETQq0 0.0 rgBT /Qverlock 10	2.6	2
77	Influence of Backbone Fluorination in Regioregular Poly(3-alkyl-4-fluoro)thiophenes. Journal of the American Chemical Society, 2015, 137, 6866-6879.	6.6	211
78	Effects of Fluorination and Side Chain Branching on Molecular Conformation and Photovoltaic Performance of Donor-Acceptor Copolymers. Chemistry of Materials, 2015, 27, 4196-4204.	3.2	41
79	Dip-pen patterning of poly(9,9-dioctylfluorene) chain-conformation-based nano-phonic elements. Nature Communications, 2015, 6, 5977.	5.8	59
80	Morphology-performance relationships in polymer/fullerene blends probed by complementary characterisation techniques - effects of nanowire formation and subsequent thermal annealing. Journal of Materials Chemistry C, 2015, 3, 9224-9232.	2.7	10
81	Natures of optical absorption transitions and excitation energy dependent photostability of diketopyrrolopyrrole (DPP)-based photovoltaic copolymers. Energy and Environmental Science, 2015, 8, 3222-3232.	15.6	90
82	Self-Aligned Megahertz Organic Transistors Solution-Processed on Plastic. Advanced Electronic Materials, 2015, 1, 1500024.	2.6	24
83	High-Efficiency Polymer LEDs with Fast Response Times Fabricated via Selection of Electron-Injecting Conjugated Polyelectrolyte Backbone Structure. ACS Applied Materials & Interfaces, 2015, 7, 26566-26571.	4.0	22
84	Solution processing of polymer semiconductor: Insulator blends-Tailored optical properties through liquid-liquid phase separation control. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 304-310.	2.4	25
85	Understanding the role of ultra-thin polymeric interlayers in improving efficiency of polymer light emitting diodes. Journal of Applied Physics, 2014, 115, .	1.1	15
86	In situ formation of organic-inorganic hybrid nanostructures for photovoltaic applications. Faraday Discussions, 2014, 174, 267-79.	1.6	5
87	High-Performance Flexible Bottom-Gate Organic Field-Effect Transistors with Gravure Printed Thin Organic Dielectric. Advanced Materials Interfaces, 2014, 1, 1-6.	1.9	35
88	Towards reliable charge-mobility benchmark measurements for organic semiconductors. Organic Electronics, 2014, 15, 1263-1272.	1.4	249
89	Charge mobility anisotropy of functionalized pentacenes in organic field effect transistors fabricated by solution processing. Journal of Materials Chemistry C, 2014, 2, 10110-10115.	2.7	34
90	Photochemical stability of high efficiency PTB7:PC ₇₀ BM solar cell blends. Journal of Materials Chemistry A, 2014, 2, 20189-20195.	5.2	134

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91	Polaron stability in semiconducting polymer neat films. <i>Chemical Communications</i> , 2014, 50, 14425-14428.	2.2	14
92	Combination effect of polar solvent treatment on ZnO and polyfluorene-based polymer blends for highly efficient blue-based hybrid organic-inorganic polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8673-8677.	2.7	8
93	Germanium- and Silicon-Substituted Donor-Acceptor Type Copolymers: Effect of the Bridging Heteroatom on Molecular Packing and Photovoltaic Device Performance. <i>Advanced Energy Materials</i> , 2014, 4, 1400527.	10.2	46
94	Highly efficient inverted polymer light-emitting diodes using surface modifications of ZnO layer. <i>Nature Communications</i> , 2014, 5, 4840.	5.8	138
95	Controlling Microstructure of Pentacene Derivatives by Solution Processing: Impact of Structural Anisotropy on Optoelectronic Properties. <i>ACS Nano</i> , 2013, 7, 7983-7991.	7.3	86
96	Synthesis and morphology of asymmetric, alkyne-functionalised pentacene and 2-fluoroanthradithiophene. <i>Tetrahedron Letters</i> , 2013, 54, 6814-6818.	0.7	1
97	Interfacial molecular order of conjugated polymer in P3HT:ZnO bilayer photovoltaics and its impact on device performance. <i>Applied Physics Letters</i> , 2013, 103, 153304.	1.5	12
98	Understanding the relationship between molecular order and charge transport properties in conjugated polymer based organic blend photovoltaic devices. <i>Journal of Chemical Physics</i> , 2013, 139, 064901.	1.2	25
99	Directly probing the molecular order of conjugated polymer in OPV blends induced by different film thicknesses, substrates and additives. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6235.	2.7	40
100	High-Crystalline Medium-Band-Gap Polymers Consisting of Benzodithiophene and Benzotriazole Derivatives for Organic Photovoltaic Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12820-12831.	4.0	64
101	Work function engineering of ZnO electrodes by using p-type and n-type doped carbon nanotubes. <i>Nanotechnology</i> , 2013, 24, 484013.	1.3	12
102	Optimal Ambipolar Charge Transport of Thienylenevinylene-Based Polymer Semiconductors by Changes in Conformation for High-Performance Organic Thin Film Transistors and Inverters. <i>Chemistry of Materials</i> , 2013, 25, 1572-1583.	3.2	55
103	Highly Efficient Red-Emitting Hybrid Polymer Light-Emitting Diodes via Förster Resonance Energy Transfer Based on Homogeneous Polymer Blends with the Same Polyfluorene Backbone. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5690-5695.	4.0	35
104	<i>In-situ</i> monitoring of molecular vibrations of two organic semiconductors in photovoltaic blends and their impact on thin film morphology. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	24
105	Effects of a Heavy Atom on Molecular Order and Morphology in Conjugated Polymer:Fullerene Photovoltaic Blend Thin Films and Devices. <i>ACS Nano</i> , 2012, 6, 9646-9656.	7.3	70
106	Effects of Polymer Packing Structure on Photoinduced Triplet Generation and Dynamics. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11298-11305.	1.5	7
107	A comparison between dithienosilole and dithienogermole donor-acceptor type co-polymers for organic bulk heterojunction photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 9975.	6.7	24
108	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 12695.	6.7	86

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109	Spectroscopy and Single-Molecule Emission of a Fluorene-Terthiophene Oligomer. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12028-12035.	1.2	6
110	Effect of Crystallization on the Electronic Energy Levels and Thin Film Morphology of P3HT:PCBM Blends. <i>Macromolecules</i> , 2011, 44, 2944-2952.	2.2	225
111	The Nature of In-Plane Skeleton Raman Modes of P3HT and Their Correlation to the Degree of Molecular Order in P3HT:PCBM Blend Thin Films. <i>Journal of the American Chemical Society</i> , 2011, 133, 9834-9843.	6.6	350
112	Surface and subsurface morphology of operating nanowire:fullerene solar cells revealed by photoconductive-AFM. <i>Energy and Environmental Science</i> , 2011, 4, 3646.	15.6	30
113	Thin-Film Morphology of Inkjet-Printed Single-Droplet Organic Transistors Using Polarized Raman Spectroscopy: Effect of Blending TIPS-Pentacene with Insulating Polymer. <i>ACS Nano</i> , 2011, 5, 9824-9835.	7.3	118
114	A low band gap co-polymer of dithienogermole and 2,1,3-benzothiadiazole by Suzuki polycondensation and its application in transistor and photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 16257.	6.7	91
115	Vibrationally Assisted Polariton-Relaxation Processes in Strongly Coupled Organic-Semiconductor Microcavities. <i>Advanced Functional Materials</i> , 2011, 21, 3691-3696.	7.8	126
116	Organic Semiconductors: Vibrationally Assisted Polariton-Relaxation Processes in Strongly Coupled Organic-Semiconductor Microcavities (<i>Adv. Funct. Mater.</i> 19/2011). <i>Advanced Functional Materials</i> , 2011, 21, 3690-3690.	7.8	1
117	High performance polymer light-emitting diodes with N-type metal oxide/conjugated polyelectrolyte hybrid charge transport layers. <i>Applied Physics Letters</i> , 2011, 99, 163305.	1.5	38
118	Tuning the electronic coupling in a low-bandgap donor-acceptor copolymer via the placement of side-chains. <i>Journal of Chemical Physics</i> , 2011, 134, 114901.	1.2	34
119	Self-Assembled, Molecularly Aligned Conjugated Polymer Nanowires via Dewetting. <i>Advanced Functional Materials</i> , 2010, 20, 3045-3054.	7.8	5
120	Dielectric switching of the nature of excited singlet state in a donor-acceptor-type polyfluorene copolymer. <i>Physical Review B</i> , 2010, 81, .	1.1	29
121	Probing thin-film morphology of conjugated polymers by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2010, 107, 024902.	1.1	16
122	A Characterization of the Raman Modes in a J-Aggregate-Forming Dye: A Comparison between Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11920-11927.	1.1	30
123	Understanding the Influence of Morphology on Poly(3-hexylselenothiophene):PCBM Solar Cells. <i>Macromolecules</i> , 2010, 43, 1169-1174.	2.2	92
124	Efficient hybrid organic-inorganic light emitting diodes with self-assembled dipole molecule deposited metal oxides. <i>Applied Physics Letters</i> , 2010, 96, 243306.	1.5	83
125	Phase-Separated Thin Film Structures for Efficient Polymer Blend Light-Emitting Diodes. <i>Nano Letters</i> , 2010, 10, 385-392.	4.5	41
126	Charge-transfer character of excitons in poly[2,7-(9,9-di-n-octylfluorene)(1-x)-co-4,7-(2,1,3-benzothiadiazole)(x)]. <i>Journal of Chemical Physics</i> , 2009, 131, 035104.	1.2	33

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127	Intrachain versus Interchain Electron Transport in Poly(fluorene- <i>alt</i> -benzothiadiazole): A Quantum-Chemical Insight. <i>ChemPhysChem</i> , 2008, 9, 989-993.	1.0	57
128	Efficient Conjugated-Polymer Optoelectronic Devices Fabricated by Thin-Film Transfer-Printing Technique. <i>Advanced Functional Materials</i> , 2008, 18, 1012-1019.	7.8	125
129	Surface-Directed Phase Separation of Conjugated Polymer Blends for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2008, 18, 2897-2904.	7.8	50
130	Controlling Electrical Properties of Conjugated Polymers via a Solution-Based p-Type Doping. <i>Advanced Materials</i> , 2008, 20, 3319-3324.	11.1	256
131	Optoelectronic and Charge Transport Properties at Organic~Organic Semiconductor Interfaces: Comparison between Polyfluorene-Based Polymer Blend and Copolymer. <i>Journal of the American Chemical Society</i> , 2008, 130, 13120-13131.	6.6	84
132	Exciplex emission from electroluminescent ladder-type pentaphenylene oligomers bearing both electron- and hole-accepting substituents. <i>Journal of Chemical Physics</i> , 2008, 128, 044703.	1.2	12
133	Optical Spectroscopy of a Polyfluorene Copolymer at High Pressure: Intra- and Intermolecular Interactions. <i>Physical Review Letters</i> , 2007, 99, 167401.	2.9	92
134	Anisotropic optical constants of electroluminescent conjugated polymer thin films determined by variable-angle spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2007, 102, 063505.	1.1	36
135	In situ identification of a luminescence quencher in an organic light-emitting device. <i>Journal of Materials Chemistry</i> , 2007, 17, 76-81.	6.7	38
136	Uniaxial Alignment of Liquid-Crystalline Conjugated Polymers by Nanoconfinement. <i>Nano Letters</i> , 2007, 7, 987-992.	4.5	173
137	Anisotropic optical properties in electroluminescent conjugated polymers based on grazing angle photoluminescence measurements. <i>Journal of Chemical Physics</i> , 2006, 124, 184706.	1.2	40
138	Identification of a Quenching Species in Ruthenium Tris-Bipyridine Electroluminescent Devices. <i>Journal of the American Chemical Society</i> , 2006, 128, 7761-7764.	6.6	104
139	Spatial control of the recombination zone in ambipolar light-emitting polymer transistors. , 2006, , .		1
140	Efficient Top-Gate, Ambipolar, Light-Emitting Field-Effect Transistors Based on a Green-Light-Emitting Polyfluorene. <i>Advanced Materials</i> , 2006, 18, 2708-2712.	11.1	336
141	Effects of Packing Structure on the Optoelectronic and Charge Transport Properties in Poly(9,9-di-n-octylfluorene- <i>alt</i> -benzothiadiazole). <i>Journal of the American Chemical Society</i> , 2005, 127, 12890-12899.	6.6	320
142	Correlation between Surface Photovoltage and Blend Morphology in Polyfluorene-Based Photodiodes. <i>Nano Letters</i> , 2005, 5, 559-563.	4.5	169
143	Spin-cast thin semiconducting polymer interlayer for improving device efficiency of polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 87, 023506.	1.5	277
144	Trap-assisted hole injection and quantum efficiency enhancement in poly(9,9- ϵ^2) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (dioctylfluorene- <i>alt</i> -benzothiadiazole). <i>Journal of Applied Physics</i> , 2005, 96, 7643-7649.	1.1	37

#	ARTICLE	IF	CITATIONS
145	Electrical degradation of triarylamine-based light-emitting polymer diodes monitored by micro-Raman spectroscopy. <i>Chemical Physics Letters</i> , 2004, 386, 2-7.	1.2	65
146	Phase Separation in Polyfluorene-Based Conjugated Polymer Blends: A Lateral and Vertical Analysis of Blend Spin-Cast Thin Films. <i>Macromolecules</i> , 2004, 37, 2861-2871.	2.2	232
147	Barrier-Free Electron-Hole Capture in Polymer Blend Heterojunction Light-Emitting Diodes. <i>Advanced Materials</i> , 2003, 15, 1708-1712.	11.1	326
148	Surface conditioning of indium-tin oxide anodes for organic light-emitting diodes. <i>Thin Solid Films</i> , 2003, 445, 358-366.	0.8	83
149	Effect of interchain interactions on the absorption and emission of poly(3-hexylthiophene). <i>Physical Review B</i> , 2003, 67, .	1.1	830
150	Nature of Non-emissive Black Spots in Polymer Light-Emitting Diodes by In-Situ Micro-Raman Spectroscopy. <i>Advanced Materials</i> , 2002, 14, 206-209.	11.1	143
151	Photoluminescence of poly(p-phenylenevinylene)-silica nanocomposites: Evidence for dual emission by Franck-Condon analysis. <i>Journal of Chemical Physics</i> , 2001, 115, 2709-2720.	1.2	89
152	Molecular-scale interface engineering for polymer light-emitting diodes. <i>Nature</i> , 2000, 404, 481-484.	13.7	764
153	Electroluminescence emission pattern of organic light-emitting diodes: Implications for device efficiency calculations. <i>Journal of Applied Physics</i> , 2000, 88, 1073-1081.	1.1	434
154	Energetics and Surface Photovoltage of Perovskites for Thin Film Photovoltaics. , 0, , .		0
155	Proton Radiation Hardness of Organic Photovoltaics: An In-Depth Study. <i>Solar Rrl</i> , 0, , 2101037.	3.1	3