

Ji-Seon Kim

List of Publications by Year in descending order

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155
papers

10,960
citations

29994

54
h-index

31759

101
g-index

160
all docs

160
docs citations

160
times ranked

11640
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of interchain interactions on the absorption and emission of poly(3-hexylthiophene). <i>Physical Review B</i> , 2003, 67, .	1.1	830
2	Molecular-scale interface engineering for polymer light-emitting diodes. <i>Nature</i> , 2000, 404, 481-484.	13.7	764
3	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
4	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
5	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
6	Barrier-Free Electron-Hole Capture in Polymer Blend Heterojunction Light-Emitting Diodes. <i>Advanced Materials</i> , 2003, 15, 1708-1712.	11.1	326
7	Effects of Packing Structure on the Optoelectronic and Charge Transport Properties in Poly(9,9-di-n-octylfluorene-alt-benzothiadiazole). <i>Journal of the American Chemical Society</i> , 2005, 127, 12890-12899.	6.6	320
8	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
9	Controlling Electrical Properties of Conjugated Polymers via a Solution-Based p-Type Doping. <i>Advanced Materials</i> , 2008, 20, 3319-3324.	11.1	256
10	Towards reliable charge-mobility benchmark measurements for organic semiconductors. <i>Organic Electronics</i> , 2014, 15, 1263-1272.	1.4	249
11	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
12	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
13	Influence of Backbone Fluorination in Regioregular Poly(3-alkyl-4-fluoro)thiophenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6866-6879.	6.6	211
14	An Efficient, Burn-in-Free Organic Solar Cell Employing a Nonfullerene Electron Acceptor. <i>Advanced Materials</i> , 2017, 29, 1701156.	11.1	175
15	Uniaxial Alignment of Liquid-Crystalline Conjugated Polymers by Nanoconfinement. <i>Nano Letters</i> , 2007, 7, 987-992.	4.5	173
16	Correlation between Surface Photovoltage and Blend Morphology in Polyfluorene-Based Photodiodes. <i>Nano Letters</i> , 2005, 5, 559-563.	4.5	169
17	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
18	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

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19	Recent Progress and Challenges toward Highly Stable Nonfullerene Acceptor-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003002.	10.2	146
20	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
21	Highly efficient inverted polymer light-emitting diodes using surface modifications of ZnO layer. <i>Nature Communications</i> , 2014, 5, 4840.	5.8	138
22	Photochemical stability of high efficiency PTB7:PC ₇₀ BM solar cell blends. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20189-20195.	5.2	134
23	Vibrationally Assisted Polariton Relaxation Processes in Strongly Coupled Organic Semiconductor Microcavities. <i>Advanced Functional Materials</i> , 2011, 21, 3691-3696.	7.8	126
24	Efficient Conjugated Polymer Optoelectronic Devices Fabricated by Thin Film Transfer Printing Technique. <i>Advanced Functional Materials</i> , 2008, 18, 1012-1019.	7.8	125
25	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
26	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
27	Twist and Degradation 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
28	Optical Spectroscopy of a Polyfluorene Copolymer at High Pressure: Intra- and Intermolecular Interactions. <i>Physical Review Letters</i> , 2007, 99, 167401.	2.9	92
29	Understanding the Influence of Morphology on Poly(3-hexylselenothiophene):PCBM Solar Cells. <i>Macromolecules</i> , 2010, 43, 1169-1174.	2.2	92
30	Control of Interface Defects for Efficient and Stable Quasi-2D Perovskite Light-Emitting Diodes Using Nickel Oxide Hole Injection Layer. <i>Advanced Science</i> , 2018, 5, 1801350.	5.6	92
31	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
32	Natures of optical absorption transitions and excitation energy dependent photostability of diketopyrrolopyrrole (DPP)-based photovoltaic copolymers. <i>Energy and Environmental Science</i> , 2015, 8, 3222-3232.	15.6	90
33	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
34	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
35	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
36	Raman spectroscopy as an advanced structural nanoprobe for conjugated molecular semiconductors. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 073001.	1.3	86

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37	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
38	Surface conditioning of indium-tin oxide anodes for organic light-emitting diodes. <i>Thin Solid Films</i> , 2003, 445, 358-366.	0.8	83
39	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
40	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
41	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
42	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
43	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
44	Spectroscopic properties of poly(9,9-diocetylfluorene) thin films possessing varied fractions of β -phase chain segments: enhanced photoluminescence efficiency via conformation structuring. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1995-2006.	2.4	69
45	Optimization and Analysis of Conjugated Polymer Side Chains for High-Performance Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2016, 26, 1517-1525.	7.8	67
46	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
47	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
48	Tail state limited photocurrent collection of thick photoactive layers in organic solar cells. <i>Nature Communications</i> , 2019, 10, 5159.	5.8	65
49	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
50	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. <i>Advanced Energy Materials</i> , 2017, 7, 1602596.	10.2	62
51	High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence. <i>Nature Communications</i> , 2021, 12, 4868.	5.8	62
52	Orientation dependent molecular electrostatics drives efficient charge generation in homojunction organic solar cells. <i>Nature Communications</i> , 2020, 11, 4617.	5.8	60
53	Dip-pen patterning of poly(9,9-diocetylfluorene) chain-conformation-based nano-photonic elements. <i>Nature Communications</i> , 2015, 6, 5977.	5.8	59
54	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

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55	Optimal Ambipolar Charge Transport of Thiophenevinylene-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
56	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
57	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
58	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
59	1 GHz Pentacene Diode Rectifiers Enabled by Controlled Film Deposition on SAM-Treated Au Anodes. <i>Advanced Electronic Materials</i> , 2016, 2, 1500282.	2.6	48
60	A Commercial Benchmark: Light-Soaking Free, Fully Scalable, Large-Area Organic Solar Cells for Low-Light Applications. <i>Advanced Energy Materials</i> , 2021, 11, 2003405.	10.2	48
61	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
62	Suppressing PEDOT:PSS Doping-Induced Interfacial Recombination Loss in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 560-568.	8.8	47
63	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
64	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
65	Phase-Separated Thin Film Structures for Efficient Polymer Blend Light-Emitting Diodes. <i>Nano Letters</i> , 2010, 10, 385-392.	4.5	41
66	Effects of Fluorination and Side Chain Branching on Molecular Conformation and Photovoltaic Performance of Donor-Acceptor Copolymers. <i>Chemistry of Materials</i> , 2015, 27, 4196-4204.	3.2	41
67	Spectroscopic Investigations of Three-Phase Morphology Evolution in Polymer: Fullerene Solar Cell Blends. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10806-10814.	1.5	41
68	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
69	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
70	3D Hybrid Scaffolds Based on PEDOT:PSS/MWCNT Composites. <i>Frontiers in Chemistry</i> , 2019, 7, 363.	1.8	39
71	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
72	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

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73	Trap-assisted hole injection and quantum efficiency enhancement in poly(9,9-difluorene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td 96, 7643-7649.	1.1	37
74	Anisotropic optical constants of electroluminescent conjugated polymer thin films determined by variable-angle spectroscopic ellipsometry. Journal of Applied Physics, 2007, 102, 063505.	1.1	36
75	Impact of Molecular Order on Polaron Formation in Conjugated Polymers. Journal of Physical Chemistry C, 2018, 122, 29129-29140.	1.5	36
76	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
77	Highly Efficient Red-Emitting Hybrid Polymer Light-Emitting Diodes via Förster Resonance Energy Transfer Based on Homogeneous Polymer Blends with the Same Polyfluorene Backbone. ACS Applied Materials & Interfaces, 2013, 5, 5690-5695.	4.0	35
78	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
79	Bi ₂ Fe ₄ O ₉ thin films as novel visible-light-active photoanodes for solar water splitting. Journal of Materials Chemistry A, 2019, 7, 9537-9541.	5.2	35
80	Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. Cell Reports Physical Science, 2021, 2, 100498.	2.8	35
81	Organic Bilayer Photovoltaics for Efficient Indoor Light Harvesting. Advanced Energy Materials, 2022, 12, .	10.2	35
82	Tuning the electronic coupling in a low-bandgap donor-acceptor copolymer via the placement of side-chains. Journal of Chemical Physics, 2011, 134, 114901.	1.2	34
83	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
84	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
85	Charge-transfer character of excitons in poly[2,7-(9,9-di-n-octylfluorene)(1-x)-co-4,7-(2,1,3-benzothiadiazole)(x)]. Journal of Chemical Physics, 2009, 131, 035104.	1.2	33
86	Light-intensity-dependent photoresponse time of organic photodetectors and its molecular origin. Nature Communications, 2022, 13, .	5.8	31
87	A Characterization of the Raman Modes in a J-Aggregate-Forming Dye: A Comparison between Theory and Experiment. Journal of Physical Chemistry A, 2010, 114, 11920-11927.	1.1	30
88	Surface and subsurface morphology of operating nanowire:fullerene solar cells revealed by photoconductive-AFM. Energy and Environmental Science, 2011, 4, 3646.	15.6	30
89	Dielectric switching of the nature of excited singlet state in a donor-acceptor-type polyfluorene copolymer. Physical Review B, 2010, 81, .	1.1	29
90	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

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91	Novel patterning of flexible and transparent Ag nanowire electrodes using oxygen plasma treatment. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9394-9398.	2.7	28
92	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
93	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
94	Solution processing of polymer semiconductor: Insulator blendsâ€”Tailored optical properties through liquidâ€”liquid phase separation control. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 304-310.	2.4	25
95	Molecular understanding of a Î€-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
96	A comparison between dithienosilole and dithienogermole donorâ€”acceptor type co-polymers for organic bulk heterojunction photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 9975.	6.7	24
97	<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
98	Selfâ€”Aligned Megahertz Organic Transistors Solutionâ€”Processed on Plastic. <i>Advanced Electronic Materials</i> , 2015, 1, 1500024.	2.6	24
99	High-Efficiency Polymer LEDs with Fast Response Times Fabricated via Selection of Electron-Injecting Conjugated Polyelectrolyte Backbone Structure. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26566-26571.	4.0	22
100	Benzoselenadiazole and benzotriazole directed electrophilic Câ€”H borylation of conjugated donorâ€”acceptor materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 718-724.	2.7	22
101	Organic cathode interfacial materials for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13506-13514.	5.2	21
102	The Role of Longâ€”Alkylâ€”Group Spacers in Glycolated Copolymers for Highâ€”Performance Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2022, 34, e2202574.	11.1	21
103	Controlling Molecular Conformation for Highly Efficient and Stable Deep-Blue Copolymer Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11070-11082.	4.0	20
104	Identifying the Molecular Origins of High-Performance in Organic Photodetectors Based on Highly Intermixed Bulk Heterojunction Blends. <i>ACS Nano</i> , 2021, 15, 1217-1228.	7.3	19
105	Efficient Charge Carrier Injection and Balance Achieved by Low Electrochemical Doping in Solutionâ€”Processed Polymer Lightâ€”Emitting Diodes. <i>Advanced Functional Materials</i> , 2019, 29, 1904092.	7.8	18
106	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
107	Probing thin-film morphology of conjugated polymers by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2010, 107, 024902.	1.1	16
108	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

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109	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
110	Understanding the role of ultra-thin polymeric interlayers in improving efficiency of polymer light emitting diodes. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	15
111	Polaron stability in semiconducting polymer neat films. <i>Chemical Communications</i> , 2014, 50, 14425-14428.	2.2	14
112	Operational electrochemical stability of thiophene-thiazole copolymers probed by resonant Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 244904.	1.2	14
113	Systematic control of heteroatoms in donor-acceptor copolymers and its effects on molecular conformation and photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7966-7978.	2.7	14
114	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
115	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
116	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
117	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
118	Interfacial Chemical Composition and Molecular Order in Organic Photovoltaic Blend Thin Films Probed by Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31469-31481.	4.0	12
119	Photo-stability study of a solution-processed small molecule solar cell system: correlation between molecular conformation and degradation. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 194-202.	2.8	12
120	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
121	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
122	BMP-2 functionalized PEDOT:PSS-based OECTs for stem cell osteogenic differentiation monitoring. <i>Flexible and Printed Electronics</i> , 2019, 4, 044006.	1.5	11
123	Enhancing hole carrier injection via low electrochemical doping on circularly polarized polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9512-9520.	2.7	11
124	Morphology-performance relationships in polymer/fullerene blends probed by complementary characterisation techniques – effects of nanowire formation and subsequent thermal annealing. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9224-9232.	2.7	10
125	Novel scalable aerosol-assisted CVD route for perovskite solar cells. <i>Materials Advances</i> , 2021, 2, 1606-1612.	2.6	10
126	Strong Intermolecular Interactions Induced by High Quadrupole Moments Enable Excellent Photostability of Non-Fullerene Acceptors for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	10

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127	Properties and Applications of Copper(I) Thiocyanate Hole-Transport Interlayers Processed from Different Solvents. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	9
128	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
129	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
130	Efficient Charge Transport Driven by Strong Intermolecular Interactions in Cyclopentadithiophene-Based Donor-Acceptor Type Conjugated Copolymers. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	8
131	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
132	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
133	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
134	Spectroscopy and Single-Molecule Emission of a Fluorene-Terthiophene Oligomer. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12028-12035.	1.2	6
135	Comparing blends and blocks: Synthesis of partially fluorinated diblock polythiophene copolymers to investigate the thermal stability of optical and morphological properties. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2150-2163.	1.3	6
136	Impact of Fullerene Intercalation on Structural and Thermal Properties of Organic Photovoltaic Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20976-20985.	1.5	6
137	Self-Assembled, Molecularly Aligned Conjugated Polymer Nanowires via Dewetting. <i>Advanced Functional Materials</i> , 2010, 20, 3045-3054.	7.8	5
138	In situ formation of organic-inorganic hybrid nanostructures for photovoltaic applications. <i>Faraday Discussions</i> , 2014, 174, 267-79.	1.6	5
139	Impact of Structural Polymorphs on Charge Collection and Nongeminate Recombination in Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29141-29149.	1.5	5
140	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
141	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
142	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
143	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
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