

Yun-Hi Kim

List of Publications by Year in descending order

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287
papers

10,568
citations

44069

48
h-index

43889

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296
all docs

296
docs citations

296
times ranked

9657
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , 2017, 355, 59-64.	12.6	897
2	Record High Hole Mobility in Polymer Semiconductors via Side-Chain Engineering. <i>Journal of the American Chemical Society</i> , 2013, 135, 14896-14899.	13.7	757
3	Multi-scale ordering in highly stretchable polymer semiconducting films. <i>Nature Materials</i> , 2019, 18, 594-601.	27.5	251
4	Investigation of Structure-Property Relationships in Diketopyrrolopyrrole-Based Polymer Semiconductors via Side-Chain Engineering. <i>Chemistry of Materials</i> , 2015, 27, 1732-1739.	6.7	244
5	Deep-Blue Phosphorescence from Perfluoro Carbonyl-Substituted Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 14321-14328.	13.7	243
6	Effect of Selenophene in a DPP Copolymer Incorporating a Vinyl Group for High-Performance Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2013, 25, 524-528.	21.0	230
7	Side-Chain-Induced Rigid Backbone Organization of Polymer Semiconductors through Semifluoroalkyl Side Chains. <i>Journal of the American Chemical Society</i> , 2016, 138, 3679-3686.	13.7	229
8	Dramatic Inversion of Charge Polarity in Diketopyrrolopyrrole-Based Organic Field-Effect Transistors via a Simple Nitrile Group Substitution. <i>Advanced Materials</i> , 2014, 26, 7300-7307.	21.0	224
9	Thermally Activated Delayed Fluorescence from Azasiline Based Intramolecular Charge-Transfer Emitter (DTPDDA) and a Highly Efficient Blue Light Emitting Diode. <i>Chemistry of Materials</i> , 2015, 27, 6675-6681.	6.7	198
10	Highly Efficient Deep-Blue OLEDs using a TADF Emitter with a Narrow Emission Spectrum and High Horizontal Emitting Dipole Ratio. <i>Advanced Materials</i> , 2020, 32, e2004083.	21.0	170
11	High-Mobility Air-Stable Naphthalene Diimide-Based Copolymer Containing Extended π -Conjugation for n-Channel Organic Field Effect Transistors. <i>Advanced Functional Materials</i> , 2013, 23, 5719-5727.	14.9	166
12	Effect of Substitution of Methyl Groups on the Luminescence Performance of Ir(III) Complexes: Preparation, Structures, Electrochemistry, Photophysical Properties and Their Applications in Organic Light-Emitting Diodes (OLEDs). <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 3415-3423.	2.0	158
13	π -Aggregation Strategy in the Design of Molecular Semiconductors for Highly Reliable Organic Thin Film Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 1616-1623.	14.9	146
14	Highly rigid and twisted anthracene derivatives: a strategy for deep blue OLED materials with theoretical limit efficiency. <i>Journal of Materials Chemistry</i> , 2012, 22, 2695-2700.	6.7	143
15	Complementary Absorbing Star-Shaped Small Molecules for the Preparation of Ternary Cascade Energy Structures in Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2013, 23, 1556-1565.	14.9	138
16	Extremely deep blue and highly efficient non-doped organic light emitting diodes using an asymmetric anthracene derivative with a xylene unit. <i>Chemical Communications</i> , 2013, 49, 4664.	4.1	128
17	Iridium Complexes with Cyclometalated α -Cycloalkenylpyridine Ligands as Highly Efficient Emitters for Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2008, 20, 2003-2007.	21.0	122
18	Ultrahigh-efficiency solution-processed simplified small-molecule organic light-emitting diodes using universal host materials. <i>Science Advances</i> , 2016, 2, e1601428.	10.3	122

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19	Efficient, Thermally Stable, and Mechanically Robust All-Polymer Solar Cells Consisting of the Same Benzodithiophene Unit-Based Polymer Acceptor and Donor with High Molecular Compatibility. <i>Advanced Energy Materials</i> , 2021, 11, 2003367.	19.5	122
20	Design of Heteroleptic Ir Complexes with Horizontal Emitting Dipoles for Highly Efficient Organic Light-Emitting Diodes with an External Quantum Efficiency of 38%. <i>Chemistry of Materials</i> , 2016, 28, 7505-7510.	6.7	109
21	Synthesis and Characterization of Highly Soluble and Oxygen Permeable New Polyimides Based on Twisted Biphenyl Dianhydride and Spirobifluorene Diamine. <i>Macromolecules</i> , 2005, 38, 7950-7956.	4.8	107
22	Controlling Horizontal Dipole Orientation and Emission Spectrum of Ir Complexes by Chemical Design of Ancillary Ligands for Efficient Deep-Blue Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2019, 31, e1808102.	21.0	105
23	Improving the Performance and Stability of Inverted Planar Flexible Perovskite Solar Cells Employing a Novel NDI-Based Polymer as the Electron Transport Layer. <i>Advanced Energy Materials</i> , 2018, 8, 1702872.	19.5	104
24	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. <i>Nature Communications</i> , 2018, 9, 3207.	12.8	96
25	Tattoo-Paper Transfer as a Versatile Platform for All-Printed Organic Edible Electronics. <i>Advanced Materials</i> , 2018, 30, e1706091.	21.0	92
26	Synthesis and Studies on 2-Hexylthieno[3,2-b]thiophene End-Capped Oligomers for OTFTs. <i>Chemistry of Materials</i> , 2007, 19, 3561-3567.	6.7	91
27	Highly efficient deep-blue phosphorescence from heptafluoropropyl-substituted iridium complexes. <i>Chemical Communications</i> , 2015, 51, 58-61.	4.1	91
28	Strategies for the Molecular Design of Donor-Acceptor-type Fluorescent Emitters for Efficient Deep Blue Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2018, 30, 857-863.	6.7	85
29	A Pseudo-Regular Alternating Conjugated Copolymer Using an Asymmetric Monomer: A High-Mobility Organic Transistor in Nonchlorinated Solvents. <i>Advanced Materials</i> , 2015, 27, 3626-3631.	21.0	84
30	Novel Diketopyrroloppyrrrole Random Copolymers: High Charge-Carrier Mobility From Environmentally Benign Processing. <i>Advanced Materials</i> , 2014, 26, 6612-6616.	21.0	80
31	Alkyl Chain Length Dependence of the Field-Effect Mobility in Novel Anthracene Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 351-358.	8.0	80
32	High-Mobility Naphthalene Diimide and Selenophene-Vinylene-Selenophene-Based Conjugated Polymer: n-Channel Organic Field-Effect Transistors and Structure-Property Relationship. <i>Advanced Functional Materials</i> , 2016, 26, 4984-4997.	14.9	75
33	Solvent Additive to Achieve Highly Ordered Nanostructural Semicrystalline DPP Copolymers: Toward a High Charge Carrier Mobility. <i>Advanced Materials</i> , 2013, 25, 7003-7009.	21.0	71
34	Synthesis and Characterization of Highly Soluble and Oxygen Permeable New Polyimides Bearing a Noncoplanar Twisted Biphenyl Unit Containing tert-Butylphenyl or Trimethylsilyl Phenyl Groups. <i>Macromolecules</i> , 2003, 36, 2327-2332.	4.8	68
35	High Performance Amorphous Polymeric Thin-Film Transistors Based on		

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37	Conformation-Insensitive Ambipolar Charge Transport in a Diketopyrrolopyrrole-Based Co-polymer Containing Acetylene Linkages. <i>Chemistry of Materials</i> , 2014, 26, 3928-3937.	6.7	63
38	Alternating Copolymers Containing Bithiophene and Dialkoxynaphthalene for the Applications to Field Effect Transistor and Photovoltaic Cell: Performance and Stability. <i>Chemistry of Materials</i> , 2009, 21, 5499-5507.	6.7	62
39	Effect of the alkyl spacer length on the electrical performance of diketopyrrolopyrrole-thiophene vinylene thiophene polymer semiconductors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11697-11704.	5.5	62
40	Phenazasiline/Spiroacridine Donor Combined with Methyl-Substituted Linkers for Efficient Deep Blue Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7199-7207.	8.0	61
41	Recently Advanced Polymer Materials Containing Dithieno[3,2- <i>b</i> :1- <i>d'</i>]-phosphole Oxide for Efficient Charge Transfer in High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 3991-3997.	14.9	56
42	A Tuned Alternating D-A Copolymer Hole-Transport Layer Enables Colloidal Quantum Dot Solar Cells with Superior Fill Factor and Efficiency. <i>Advanced Materials</i> , 2020, 32, e2004985.	21.0	56
43	A new electron transporting material for effective hole-blocking and improved charge balance in highly efficient phosphorescent organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2217.	5.5	55
44	Conformationally Twisted Semiconducting Polythiophene Derivatives with Alkylthiophene Side Chain: High Solubility and Air Stability. <i>Macromolecules</i> , 2010, 43, 2118-2123.	4.8	54
45	Determination of the change of flavonoid components as the defence materials of Citrus unshiu Marc. fruit peel against <i>Penicillium digitatum</i> by liquid chromatography coupled with tandem mass spectrometry. <i>Food Chemistry</i> , 2011, 128, 49-54.	8.2	53
46	Facile Route To Control the Ambipolar Transport in Semiconducting Polymers. <i>Chemistry of Materials</i> , 2016, 28, 2287-2294.	6.7	53
47	Breaking the Efficiency Limit of Deep-Blue Fluorescent OLEDs Based on Anthracene Derivatives. <i>Advanced Materials</i> , 2022, 34, e2100161.	21.0	53
48	Controlling Emitting Dipole Orientation with Methyl Substituents on Main Ligand of Iridium Complexes for Highly Efficient Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015, 3, 1191-1196.	7.3	52
49	Triplet Harvesting by a Fluorescent Emitter Using a Phosphorescent Sensitizer for Blue Organic-Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26-30.	8.0	50
50	Synthesis and characterization of poly(fluorene)-based copolymer containing triphenylamine group. <i>Journal of Polymer Science Part A</i> , 2006, 44, 172-182.	2.3	48
51	Highly efficient non-doped deep blue fluorescent emitters with horizontal emitting dipoles using interconnecting units between chromophores. <i>Chemical Communications</i> , 2016, 52, 10956-10959.	4.1	48
52	Highly efficient orange organic light-emitting diodes using a novel iridium complex with imide group-containing ligands. <i>Journal of Materials Chemistry</i> , 2009, 19, 8824.	6.7	47
53	Isoindigo-based polymer field-effect transistors: effects of selenophene-substitution on high charge carrier mobility. <i>Chemical Communications</i> , 2015, 51, 8120-8122.	4.1	46
54	Oligo(ethylene glycol)-incorporated hybrid linear alkyl side chains for n-channel polymer semiconductors and their effect on the thin-film crystalline structure. <i>Chemical Communications</i> , 2015, 51, 1524-1527.	4.1	46

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55	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1027-1032.	5.5	46
56	Synergistic Engineering of Side Chains and Backbone Regioregularity of Polymer Acceptors for High-Performance All-Polymer Solar Cells with 15.1% Efficiency. <i>Advanced Energy Materials</i> , 2022, 12, 2103239.	19.5	46
57	A simple structured and efficient triazine-based molecule as an interfacial layer for high performance organic electronics. <i>Energy and Environmental Science</i> , 2016, 9, 2595-2602.	30.8	45
58	Highly Efficient Deep Blue Phosphorescent OLEDs Based on Tetradentate Pt(II) Complexes Containing Adamantyl Spacer Groups. <i>Advanced Functional Materials</i> , 2021, 31, 2100967.	14.9	45
59	Comparative Studies on the Relations between Composition Ratio and Charge Transport of Diketopyrrolopyrrole-Based Random Copolymers. <i>Macromolecules</i> , 2014, 47, 7030-7035.	4.8	41
60	Importance of High-Electron Mobility in Polymer Acceptors for Efficient All-Polymer Solar Cells: Combined Engineering of Backbone Building Unit and Regioregularity. <i>Advanced Functional Materials</i> , 2022, 32, 2108508.	14.9	41
61	Synthesis and characterization of poly(benzodithiophene) derivative for organic thin film transistors. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5277-5284.	2.3	40
62	Development of a new conjugated polymer containing dialkoxynaphthalene for efficient polymer solar cells and organic thin film transistors. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1119-1128.	2.3	40
63	Indolo[3,2- <i>b</i>]indole-Containing Donor-Acceptor Copolymers for High-Efficiency Organic Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 2135-2140.	6.7	40
64	Design Strategy of Anthracene-Based Fluorophores toward High-Efficiency Deep Blue Organic Light-Emitting Diodes Utilizing Triplet-Triplet Fusion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15422-15429.	8.0	40
65	Boron-Based Multi-Resonance TADF Emitter with Suppressed Intermolecular Interaction and Isomer Formation for Efficient Pure Blue OLEDs. <i>Small</i> , 2022, 18, e2107574.	10.0	40
66	Effects of Backbone Planarity and Tightly Packed Alkyl Chains in the Donor-Acceptor Polymers for High Photostability. <i>Macromolecules</i> , 2016, 49, 7844-7856.	4.8	39
67	Synthesis and characterization of solution-processable highly branched iridium (III) complex cored dendrimer based on tetraphenylsilane dendron for host-free green phosphorescent organic light emitting diodes. <i>Dyes and Pigments</i> , 2011, 90, 139-145.	3.7	38
68	Synthesis of Poly(benzothiadiazole-co-dithienobenzodithiophenes) and Effect of Thiophene Insertion for High-Performance Polymer Solar Cells. <i>Chemistry - A European Journal</i> , 2013, 19, 13242-13248.	3.3	38
69	High performance ink-jet printed diketopyrrolopyrrole-based copolymer thin-film transistors using a solution-processed aluminium oxide dielectric on a flexible substrate. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2408.	5.5	38
70	Donor-Acceptor Alternating Copolymer Compatibilizers for Thermally Stable, Mechanically Robust, and High-Performance Organic Solar Cells. <i>ACS Nano</i> , 2021, 15, 19970-19980.	14.6	38
71	Synthesis and characterization of a novel polymer based on anthracene moiety for organic thin film transistor. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5115-5122.	2.3	36
72	Selenium-Substituted Non-Fullerene Acceptors: A Route to Superior Operational Stability for Organic Bulk Heterojunction Solar Cells. <i>ACS Nano</i> , 2021, 15, 7700-7712.	14.6	36

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73	A new multi-functional conjugated polymer for use in high-performance bulk heterojunction solar cells. <i>Chemical Communications</i> , 2015, 51, 11572-11575.	4.1	35
74	Water-Gated n-Type Organic Field-Effect Transistors for Complementary Integrated Circuits Operating in an Aqueous Environment. <i>ACS Omega</i> , 2017, 2, 1-10.	3.5	35
75	Understanding the Performance of Organic Photovoltaics under Indoor and Outdoor Conditions: Effects of Chlorination of Donor Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23181-23189.	8.0	35
76	A high-performance solution-processed small molecule: alkylselenophene-substituted benzodithiophene organic solar cell. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4937-4946.	5.5	34
77	The effect of branched versus linear alkyl side chains on the bulk heterojunction photovoltaic performance of small molecules containing both benzodithiophene and thienopyrroledione. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19874-19883.	2.8	34
78	Low-Voltage, Printed, All-Polymer Integrated Circuits Employing a Low-Leakage and High-Yield Polymer Dielectric. <i>Advanced Electronic Materials</i> , 2018, 4, 1800340.	5.1	34
79	Importance of Terminal Group Pairing of Polymer Donor and Small-Molecule Acceptor in Optimizing Blend Morphology and Voltage Loss of High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2100870.	14.9	34
80	Green solvent-processed, high-performance organic solar cells achieved by outer side-chain selection of selenophene-incorporated Y-series acceptors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24622-24630.	10.3	34
81	A sub-150-nanometre-thick and ultraconformable solution-processed all-organic transistor. <i>Nature Communications</i> , 2021, 12, 5842.	12.8	34
82	Synthesis and characterization of new blue light emitting iridium complexes containing a trimethylsilyl group. <i>Journal of Materials Chemistry</i> , 2012, 22, 22721.	6.7	33
83	Thin Film Transistor Gas Sensors Incorporating High-Mobility Diketopyrrolopyrrole-Based Polymeric Semiconductor Doped with Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14004-14010.	8.0	33
84	Dimethylsilyl-linked anthracene-pyrene dimers and their efficient triplet-triplet annihilation in organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1090-1094.	5.5	32
85	Universal selection rule for surfactants used in miniemulsion processes for eco-friendly and high performance polymer semiconductors. <i>Energy and Environmental Science</i> , 2017, 10, 2324-2333.	30.8	32
86	Control of Concentration of Nonhydrogen-Bonded Hydroxyl Groups in Polymer Dielectrics for Organic Field-Effect Transistors with Operational Stability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24055-24063.	8.0	32
87	High Charge-Carrier Mobility of $2.5 \text{ cm}^2/\text{Vs}$ from a Water-Borne Colloid of a Polymeric Semiconductor via Smart Surfactant Engineering. <i>Advanced Materials</i> , 2015, 27, 5587-5592.	21.0	31
88	Fine Molecular Tuning of Diketopyrrolopyrrole-Based Polymer Semiconductors for Efficient Charge Transport: Effects of Intramolecular Conjugation Structure. <i>Macromolecules</i> , 2017, 50, 4227-4234.	4.8	31
89	Phenanthro[110,9,8-cdefg]carbazole-Thiophene, Donor-Donor Copolymer for Narrow Band Green-Selective Organic Photodiode. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15931-15936.	3.1	31
90	Dihedral Angle Distribution of Thermally Activated Delayed Fluorescence Molecules in Solids Induces Dual Phosphorescence from Charge-Transfer and Local Triplet States. <i>Chemistry of Materials</i> , 2021, 33, 5618-5630.	6.7	31

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91	Naphthalene diimide-based small molecule acceptors for fullerene-free organic solar cells. <i>Solar Energy</i> , 2017, 150, 90-95.	6.1	30
92	Polyphenolic profile and antioxidant effects of various parts of <i>Artemisia annua</i> L.. <i>Biomedical Chromatography</i> , 2016, 30, 588-595.	1.7	29
93	All-Small-Molecule Solar Cells Incorporating NDI-Based Acceptors: Synthesis and Full Characterization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44667-44677.	8.0	29
94	Diffraction X-ray Waveguiding Reveals Orthogonal Crystalline Stratification in Conjugated Polymer Thin Films. <i>Macromolecules</i> , 2018, 51, 2979-2987.	4.8	29
95	Effect of <i>ortho</i> -biphenyl substitution on the excited state dynamics of a multi-carbazole TADF molecule. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12075-12084.	5.5	29
96	Synthesis and characterization of new organosoluble and gas-permeable polyimides from bulky substituted pyromellitic dianhydrides. <i>Journal of Polymer Science Part A</i> , 2002, 40, 4288-4296.	2.3	28
97	Layer-by-Layer Conjugated Extension of a Semiconducting Polymer for High-Performance Organic Field-Effect Transistor. <i>Advanced Functional Materials</i> , 2015, 25, 3833-3839.	14.9	28
98	Synthesis of Phenanthro[1,10,9,8- <i>cd</i>]carbazole-Based Conjugated Polymers for Green-Selective Organic Photodiodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31172-31178.	8.0	28
99	Diketopyrrolopyrrole (DPP)-Based Polymers and Their Organic Field-Effect Transistor Applications: A Review. <i>Macromolecular Research</i> , 2022, 30, 71-84.	2.4	28
100	Sterically Hindered and Highly Thermal Stable Spirobifluorenyl-Substituted Poly(p-phenylenevinylene) for Light-Emitting Diodes. <i>Macromolecules</i> , 2003, 36, 3222-3227.	4.8	27
101	Highly Stable Polymer Solar Cells Based on Poly(dithienobenzodithiophene- <i>co</i> -thienothiophene). <i>Macromolecules</i> , 2015, 48, 3890-3899.	4.8	27
102	A novel design of donor-acceptor polymer semiconductors for printed electronics: application to transistors and gas sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8410-8419.	5.5	27
103	Effect of the Selective Halogenation of Small Molecule Acceptors on the Blend Morphology and Voltage Loss of High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	27
104	Determination of Polyphenol Components of Korean Prostrate Spurge (<i>Euphorbia supina</i>) by Using Liquid Chromatography-Tandem Mass Spectrometry: Overall Contribution to Antioxidant Activity. <i>Journal of Analytical Methods in Chemistry</i> , 2014, 2014, 1-8.	1.6	25
105	DTBDT-TTPD: a new dithienobenzodithiophene-based small molecule for use in efficient photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16443-16451.	10.3	25
106	Polarity Engineering of Conjugated Polymers by Variation of Chemical Linkages Connecting Conjugated Backbones. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5898-5906.	8.0	25
107	The effects of different night-time temperatures and cultivation durations on the polyphenolic contents of lettuce: Application of principal component analysis. <i>Journal of Advanced Research</i> , 2015, 6, 493-499.	9.5	25
108	Fabrication of High Performance, Narrowband Blue-Selective Polymer Photodiodes with Dialkoxynaphthalene-Based Conjugated Polymer. <i>ACS Photonics</i> , 2018, 5, 636-641.	6.6	25

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109	Molecular Engineering of a Donor-Acceptor Polymer To Realize Single Band Absorption toward a Red-Selective Thin-Film Organic Photodiode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28106-28114.	8.0	25
110	A spiro-silafluorene-phenazasiline donor-based efficient blue thermally activated delayed fluorescence emitter and its host-dependent device characteristics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4191-4198.	5.5	25
111	acceptor under halogen light illumination. <i>Journal of Power Sources</i> , 2022, 518, 230782.	7.8	25
112	Synthesis and characterization of novel blue light emitting poly[4,4'-biphenylene(\pm -phenylvinylene)]. <i>Journal of Materials Chemistry</i> , 2002, 12, 1280-1283.	6.7	24
113	Synthesis and characterization of organic light-emitting copolymers containing naphthalene. <i>Macromolecular Research</i> , 2009, 17, 91-98.	2.4	24
114	Synthesis and characterization of a new ethynyl-linked alternating anthracene/fluorene copolymer for organic thin film transistor. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1609-1616.	2.3	24
115	N-Octyl-2,7-dithia-5-azacyclopenta[a]pentalene-4,6-dione-Based Low Band Gap Polymers for Efficient Solar Cells. <i>Macromolecules</i> , 2013, 46, 3861-3869.	4.8	24
116	Analysis of charge transport in high-mobility diketopyrrolopyrrole polymers by space charge limited current and time of flight methods. <i>RSC Advances</i> , 2014, 4, 35344.	3.6	23
117	Effect of alkyl chain spacer on charge transport in n-type dominant polymer semiconductors with a diketopyrrolopyrrole-thiophene-bithiazole acceptor-donor-acceptor unit. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3616-3622.	5.5	23
118	Synthesis and characterization of diphenylaminodiphenyl styryl based alternating copolymers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 341-347.	2.3	22
119	A New BDT-Based Conjugated Polymer with Donor-Donor Composition for Bulk Heterojunction Solar Cells. <i>Macromolecular Research</i> , 2016, 24, 457-462.	2.4	22
120	Synthesis and characterization of diphenylamine derivative containing malononitrile for thermally activated delayed fluorescent emitter. <i>Dyes and Pigments</i> , 2017, 140, 14-21.	3.7	22
121	Synthesis of Cyclopentadithiophene-Diketopyrrolopyrrole Donor-Acceptor Copolymers for High-Performance Nonvolatile Floating-Gate Memory Transistors with Long Retention Time. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2743-2752.	8.0	22
122	Understanding Structure-Property Relationships in All-Small-Molecule Solar Cells Incorporating a Fullerene or Nonfullerene Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36037-36046.	8.0	21
123	Molecular-Scale Strategies to Achieve High Efficiency and Low Efficiency Roll-off in Simplified Solution-Processed Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 2005292.	14.9	21
124	The Role of Long-Alkyl-Group Spacers in Glycolated Copolymers for High-Performance Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2022, 34, e2202574.	21.0	21
125	Synthesis and characterization of stable blue light-emitting poly(spirobifluorene) derivatives containing alkoxy group. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2316-2324.	2.3	20
126	A new bulky trimethylsilylxylylene substituted iridium(III) complex with picolinic acid as ancillary ligand: Synthesis; characterization and applications for efficient yellow-green emitting phosphorescent organic light emitting diodes. <i>Synthetic Metals</i> , 2012, 162, 391-397.	3.9	20

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127	Dithienobenzodithiophene-Based Small Molecule Organic Solar Cells with over 7% Efficiency via Additive- and Thermal-Annealing-Free Processing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34353-34359.	8.0	20
128	Low-Temperature, Solution-Processed, 3-D Complementary Organic FETs on Flexible Substrate. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1955-1959.	3.0	20
129	Design of New Isoindigo-Based Copolymer for Ambipolar Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13774-13782.	8.0	20
130	Synthesis and Device Performance of a Highly Efficient Fluorene-Based Blue Emission Polymer Containing Bulky 9,9-Dialkylfluorene Substituents. <i>Macromolecules</i> , 2009, 42, 6339-6347.	4.8	19
131	Effects of Alkyl Chain Length on the Optoelectronic Properties and Performance of Pyrrolo-Perylene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8859-8867.	8.0	18
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