## Joon Hak Oh

## List of Publications by Year in descending order

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18482 22832 13,449 159 62 112 citations h-index g-index papers 164 164 164 14587 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Nitrogenated holey two-dimensional structures. Nature Communications, 2015, 6, 6486.	12.8	923
2	High-Performance Air-Stable n-Channel Organic Thin Film Transistors Based on Halogenated Perylene Bisimide Semiconductors. Journal of the American Chemical Society, 2009, 131, 6215-6228.	13.7	619
3	Crystalline Ultrasmooth Self-Assembled Monolayers of Alkylsilanes for Organic Field-Effect Transistors. Journal of the American Chemical Society, 2009, 131, 9396-9404.	13.7	562
4	Boosting the Ambipolar Performance of Solution-Processable Polymer Semiconductors via Hybrid Side-Chain Engineering. Journal of the American Chemical Society, 2013, 135, 9540-9547.	13.7	460
5	Two-dimensional polyaniline (C <sub>3</sub> N) from carbonized organic single crystals in solid state. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7414-7419.	7.1	380
6	Use of a $1 < i > H < / i > -B$ enzoimidazole Derivative as an $< i > n < / i > -T$ ype Dopant and To Enable Air-Stable Solution-Processed $< i > n < / i > -C$ hannel Organic Thin-Film Transistors. Journal of the American Chemical Society, 2010, 132, 8852-8853.	13.7	353
7	Solution-Processable Ambipolar Diketopyrrolopyrrole–Selenophene Polymer with Unprecedentedly High Hole and Electron Mobilities. Journal of the American Chemical Society, 2012, 134, 20713-20721.	13.7	341
8	A Crystalâ€Engineered Hydrogenâ€Bonded Octachloroperylene Diimide with a Twisted Core: An nâ€Channel Organic Semiconductor. Angewandte Chemie - International Edition, 2010, 49, 740-743.	13.8	337
9	Chlorination: A General Route toward Electron Transport in Organic Semiconductors. Journal of the American Chemical Society, 2009, 131, 3733-3740.	13.7	334
10	Selective dispersion of high purity semiconducting single-walled carbon nanotubes with regioregular poly(3-alkylthiophene)s. Nature Communications, 2011, 2, 541.	12.8	333
11	Investigation of Structure–Property Relationships in Diketopyrrolopyrrole-Based Polymer Semiconductors via Side-Chain Engineering. Chemistry of Materials, 2015, 27, 1732-1739.	6.7	244
12	Flexible FET-Type VEGF Aptasensor Based on Nitrogen-Doped Graphene Converted from Conducting Polymer. ACS Nano, 2012, 6, 1486-1493.	14.6	232
13	Coreâ€Fluorinated Perylene Bisimide Dyes: Air Stable nâ€Channel Organic Semiconductors for Thin Film Transistors with Exceptionally High Onâ€ŧoâ€Off Current Ratios. Advanced Materials, 2007, 19, 3692-3695.	21.0	230
14	The Role of OTS Density on Pentacene and C <sub>60</sub> Nucleation, Thin Film Growth, and Transistor Performance. Advanced Functional Materials, 2009, 19, 1962-1970.	14.9	227
15	Highâ€Performance Airâ€Stable nâ€Type Organic Transistors Based on Coreâ€Chlorinated Naphthalene Tetracarboxylic Diimides. Advanced Functional Materials, 2010, 20, 2148-2156.	14.9	221
16	Solution-processed, high-performance n-channel organic microwire transistors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6065-6070.	7.1	218
17	Tuning Mechanical and Optoelectrical Properties of Poly(3-hexylthiophene) through Systematic Regioregularity Control. Macromolecules, 2015, 48, 4339-4346.	4.8	194
18	Highâ€Performance Phototransistors Based on Singleâ€Crystalline nâ€Channel Organic Nanowires and Photogenerated Chargeâ€Carrier Behaviors. Advanced Functional Materials, 2013, 23, 629-639.	14.9	177

#	Article	IF	CITATIONS
19	Flexible Field-Effect Transistor-Type Sensors Based on Conjugated Molecules. CheM, 2017, 3, 724-763.	11.7	158
20	Side Chain Optimization of Naphthalenediimide–Bithiopheneâ€Based Polymers to Enhance the Electron Mobility and the Performance in Allâ€Polymer Solar Cells. Advanced Functional Materials, 2016, 26, 1543-1553.	14.9	155
21	Solvent-Resistant Organic Transistors and Thermally Stable Organic Photovoltaics Based on Cross-linkable Conjugated Polymers. Chemistry of Materials, 2012, 24, 215-221.	6.7	154
22	Fabrication of a Highly Transparent Conductive Thin Film from Polypyrrole/Poly(methyl methacrylate) Core/Shell Nanospheres. Advanced Functional Materials, 2005, 15, 494-502.	14.9	151
23	Boosting the performance and stability of quasi-two-dimensional tin-based perovskite solar cells using the formamidinium thiocyanate additive. Journal of Materials Chemistry A, 2018, 6, 18173-18182.	10.3	149
24	Air-stable n-channel organic thin-film transistors with high field-effect mobility based on N,N′-bis(heptafluorobutyl)-3,4:9,10-perylene diimide. Applied Physics Letters, 2007, 91, .	3.3	147
25	Toward Environmentally Robust Organic Electronics: Approaches and Applications. Advanced Materials, 2017, 29, 1703638.	21.0	142
26	Wearable high-performance pressure sensors based on three-dimensional electrospun conductive nanofibers. NPG Asia Materials, 2018, 10, 540-551.	7.9	141
27	Enhancing 2D growth of organic semiconductor thin films with macroporous structures via a small-molecule heterointerface. Nature Communications, 2014, 5, 4752.	12.8	138
28	Ï€-Extended perylene diimide double-heterohelicenes as ambipolar organic semiconductors for broadband circularly polarized light detection. Nature Communications, 2021, 12, 142.	12.8	137
29	Arylâ^Perfluoroaryl Substituted Tetracene: Induction of Face-to-Face Ï€â^Ï€ Stacking and Enhancement of Charge Carrier Properties. Chemistry of Materials, 2011, 23, 1646-1649.	6.7	135
30	Importance of Electron Transport Ability in Naphthalene Diimide-Based Polymer Acceptors for High-Performance, Additive-Free, All-Polymer Solar Cells. Chemistry of Materials, 2015, 27, 5230-5237.	6.7	131
31	Determining Optimal Crystallinity of Diketopyrrolopyrrole-Based Terpolymers for Highly Efficient Polymer Solar Cells and Transistors. Chemistry of Materials, 2014, 26, 6963-6970.	6.7	130
32	Organic Transistor-Based Chemical Sensors for Wearable Bioelectronics. Accounts of Chemical Research, 2018, 51, 2829-2838.	15.6	130
33	Supramolecular Nanostructures of Chiral Perylene Diimides with Amplified Chirality for Highâ€Performance Chiroptical Sensing. Advanced Materials, 2017, 29, 1605828.	21.0	129
34	Facile Fabrication of Photochromic Dye–Conducting Polymer Core–Shell Nanomaterials and Their Photoluminescence. Advanced Materials, 2003, 15, 977-980.	21.0	121
35	Nitrogen-Doped Graphene Nanoplatelets from Simple Solution Edge-Functionalization for n-Type Field-Effect Transistors. Journal of the American Chemical Society, 2013, 135, 8981-8988.	13.7	113
36	Recent advances in organic sensors for health self-monitoring systems. Journal of Materials Chemistry C, 2018, 6, 8569-8612.	<b>5.</b> 5	110

#	Article	IF	Citations
37	<i>ε</i> â€Branched Flexible Side Chain Substituted Diketopyrrolopyrroleâ€Containing Polymers Designed for High Hole and Electron Mobilities. Advanced Functional Materials, 2015, 25, 247-254.	14.9	108
38	Highly Flexible Organic Nanofiber Phototransistors Fabricated on a Textile Composite for Wearable Photosensors. Advanced Functional Materials, 2016, 26, 1445-1453.	14.9	103
39	Largeâ€Scale Graphene Micropattern Nanoâ€biohybrids: Highâ€Performance Transducers for FETâ€Type Flexible Fluidic HIV Immunoassays. Advanced Materials, 2013, 25, 4177-4185.	21.0	97
40	A facile synthesis of polypyrrole nanotubes using a template-mediated vapor deposition polymerization and the conversion to carbon nanotubes. Chemical Communications, 2004, , 882.	4.1	92
41	Naphthalene Diimide Incorporated Thiophene-Free Copolymers with Acene and Heteroacene Units: Comparison of Geometric Features and Electron-Donating Strength of Co-units. Chemistry of Materials, 2013, 25, 3251-3259.	6.7	91
42	Amplified circularly polarized phosphorescence from co-assemblies of platinum( <scp>ii</scp> ) complexes. Chemical Science, 2019, 10, 1294-1301.	7.4	89
43	Inversion of Dominant Polarity in Ambipolar Polydiketopyrrolopyrrole with Thermally Removable Groups. Advanced Functional Materials, 2012, 22, 4128-4138.	14.9	87
44	Influence of intermolecular interactions of electron donating small molecules on their molecular packing and performance in organic electronic devices. Journal of Materials Chemistry A, 2013, 1, 14538.	10.3	86
45	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. Nano Energy, 2018, 48, 575-581.	16.0	85
46	Chiral self-sorted multifunctional supramolecular biocoordination polymers and their applications in sensors. Nature Communications, 2018, 9, 3933.	12.8	85
47	Interplay between Energetic and Kinetic Factors on the Ambient Stability of n-Channel Organic Transistors Based on Perylene Diimide Derivatives. Chemistry of Materials, 2009, 21, 5508-5518.	6.7	84
48	Highâ∈Mobility Airâ∈Stable Solutionâ∈Shearâ∈Processed nâ∈Channel Organic Transistors Based on Coreâ∈Chlorinated Naphthalene Diimides. Advanced Functional Materials, 2011, 21, 4173-4181.	14.9	82
49	Stretchable and Self-Healable Conductive Hydrogels for Wearable Multimodal Touch Sensors with Thermoresponsive Behavior. ACS Applied Materials & Interfaces, 2019, 11, 26134-26143.	8.0	81
50	Fabrication of Photoluminescent-Dye Embedded Poly(methyl methacrylate) Nanofibers and Their Fluorescence Resonance Energy Transfer Properties. Advanced Materials, 2006, 18, 2216-2219.	21.0	79
51	Highâ€Performance UV–Vis–NIR Phototransistors Based on Singleâ€Crystalline Organic Semiconductor–Gold Hybrid Nanomaterials. Advanced Functional Materials, 2017, 27, 1604528.	14.9	79
52	Visibleâ€Near Infrared Absorbing Polymers Containing Thienoisoindigo and Electronâ€Rich Units for Organic Transistors with Tunable Polarity. Advanced Functional Materials, 2013, 23, 5317-5325.	14.9	77
53	Point-of-Use Detection of Amphetamine-Type Stimulants with Host-Molecule-Functionalized Organic Transistors. CheM, 2017, 3, 641-651.	11.7	76
54	Novel crystalline supramolecular assemblies of amorphous polypyrrole nanoparticles through surfactant templatingElectronic supplementary information (ESI) available: FT-IR spectrum and the peak assignment of PPy nanoparticles. See http://www.rsc.org/suppdata/cc/b2/b207744m/. Chemical Communications, 2002, , 2200-2201.	4.1	75

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55	Molecular n-type doping for air-stable electron transport in vacuum-processed n-channel organic transistors. Applied Physics Letters, 2010, 97, .	3.3	<b>7</b> 5
56	Acceptor–acceptor type isoindigo-based copolymers for high-performance n-channel field-effect transistors. Chemical Communications, 2014, 50, 2180.	4.1	73
57	Flexible Organic Phototransistor Array with Enhanced Responsivity via Metal–Ligand Charge Transfer. ACS Applied Materials & Interfaces, 2016, 8, 7291-7299.	8.0	72
58	Facile fabrication of polymer and carbon nanocapsules using polypyrrole core/shell nanomaterialsElectronic Supplementary Information (ESI) available: Experimental details for the synthesis and carbonization of PPy nanocapsules, instrumentation, XRD pattern and Raman spectrum. See http://www.rsc.org/suppdata/cc/b3/b316881f/. Chemical Communications, 2004, , 794.	4.1	71
59	Curing behavior of tetrafunctional epoxy resin/hyperbranched polymer system. Polymer, 2001, 42, 8339-8347.	3.8	69
60	Solution-Shear-Processed Quaterrylene Diimide Thin-Film Transistors Prepared by Pressure-Assisted Thermal Cleavage of Swallow Tails. Journal of the American Chemical Society, 2011, 133, 4204-4207.	13.7	68
61	Highly Sensitive and Selective Biosensors Based on Organic Transistors Functionalized with Cucurbit[6]uril Derivatives. Advanced Functional Materials, 2015, 25, 4882-4888.	14.9	66
62	Synergistic Effects of Cation and Anion in an Ionic Imidazolium Tetrafluoroborate Additive for Improving the Efficiency and Stability of Halfâ€Mixed Pbâ€Sn Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2008801.	14.9	66
63	Ethanol-Processable, Highly Crystalline Conjugated Polymers for Eco-Friendly Fabrication of Organic Transistors and Solar Cells. Macromolecules, 2017, 50, 4415-4424.	4.8	63
64	Effect of the alkyl spacer length on the electrical performance of diketopyrrolopyrrole-thiophene vinylene thiophene polymer semiconductors. Journal of Materials Chemistry C, 2015, 3, 11697-11704.	5.5	62
65	Direct Solvothermal Synthesis of B/Nâ€Doped Graphene. Angewandte Chemie - International Edition, 2014, 53, 2398-2401.	13.8	61
66	Regular H-Bonding-Containing Polymers with Stretchability up to 100% External Strain for Self-Healable Plastic Transistors. Chemistry of Materials, 2020, 32, 1914-1924.	6.7	60
67	Chemically Robust Ambipolar Organic Transistor Array Directly Patterned by Photolithography. Advanced Materials, 2017, 29, 1605282.	21.0	59
68	A Hippocampusâ€Inspired Dualâ€Gated Organic Artificial Synapse for Simultaneous Sensing of a Neurotransmitter and Light. Advanced Materials, 2021, 33, e2100119.	21.0	59
69	Siloxane Side Chains: A Universal Tool for Practical Applications of Organic Field-Effect Transistors. Macromolecules, 2016, 49, 3739-3748.	4.8	58
70	Highly Sensitive and Selective Liquidâ€Phase Sensors Based on a Solventâ€Resistant Organicâ€Transistor Platform. Advanced Materials, 2015, 27, 1540-1546.	21.0	57
71	Lyotropic Liquidâ€Crystalline Solutions of Highâ€Concentration Dispersions of Singleâ€Walled Carbon Nanotubes with Conjugated Polymers. Small, 2009, 5, 1019-1024.	10.0	55
72	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymer–Fullerene Solar Cells. Advanced Functional Materials, 2016, 26, 51-65.	14.9	54

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73	Fluorinated Benzothiadiazole (BT) Groups as a Powerful Unit for High-Performance Electron-Transporting Polymers. ACS Applied Materials & Samp; Interfaces, 2014, 6, 20390-20399.	8.0	53
74	Ambipolar Semiconducting Polymers with <i>i∈-</i> Spacer Linked Bis-Benzothiadiazole Blocks as Strong Accepting Units. Chemistry of Materials, 2014, 26, 4933-4942.	6.7	53
75	Highly Conductive Graphene/Ag Hybrid Fibers for Flexible Fiber-Type Transistors. Scientific Reports, 2015, 5, 16366.	3.3	53
76	Efficient and Airâ€Stable Aqueousâ€Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thinâ€Film Morphologies of Electroactive Materials. Advanced Energy Materials, 2018, 8, 1802674.	19.5	52
77	Direct Patterning of Organicâ€Thinâ€Filmâ€Transistor Arrays via a "Dryâ€Taping―Approach. Advanced Materials, 2009, 21, 1266-1270.	21.0	50
78	A Role of Side-Chain Regiochemistry of Thienylene–Vinylene–Thienylene (TVT) in the Transistor Performance of Isomeric Polymers. Macromolecules, 2017, 50, 884-890.	4.8	49
79	Highly flexible chemical sensors based on polymer nanofiber field-effect transistors. Journal of Materials Chemistry C, 2019, 7, 1525-1531.	5.5	49
80	High-Performance Furan-Containing Conjugated Polymer for Environmentally Benign Solution Processing. ACS Applied Materials & Samp; Interfaces, 2017, 9, 15652-15661.	8.0	46
81	A novel synthesis of nanocapsules using identical polymer core/shell nanospheres. Journal of Materials Chemistry, 2004, 14, 2872.	6.7	45
82	Crystallization Behavior of Poly(ethylene terephthalate) Blended with Hyperbranched Polymers:Â The Effect of Terminal Groups and Composition of Hyperbranched Polymers. Macromolecules, 2000, 33, 1864-1870.	4.8	44
83	β-Alkyl substituted Dithieno[2,3- <i>d</i> ;2′,3′ <i>d</i> ê²]benzo[1,2- <i>b</i> ;4,5- <i>b</i> ê²]dithiophene Semiconducting Materials and Their Application to Solution-Processed Organic Transistors. Chemistry of Materials, 2012, 24, 3464-3472.	6.7	40
84	Boosting the Performance of Organic Optoelectronic Devices Using Multipleâ€Patterned Plasmonic Nanostructures. Advanced Materials, 2016, 28, 4976-4982.	21.0	40
85	Fabrication of Photoluminescent Dyes/Poly(acrylonitrile) Coaxial Nanotubes Using Vapor Deposition Polymerization. Chemistry of Materials, 2006, 18, 5002-5008.	6.7	38
86	Solution-processed flexible organic transistors showing very-low subthreshold slope with a bilayer polymeric dielectric on plastic. Applied Physics Letters, 2009, 94, 203301.	3.3	37
87	Perovskite Granular Wire Photodetectors with Ultrahigh Photodetectivity. Advanced Materials, 2020, 32, e2002357.	21.0	36
88	Graphene–Ruthenium Complex Hybrid Photodetectors with Ultrahigh Photoresponsivity. Small, 2014, 10, 3700-3706.	10.0	35
89	High-Performance Visible-Blind UV Phototransistors Based on n-Type Naphthalene Diimide Nanomaterials. ACS Applied Materials & Interfaces, 2018, 10, 11826-11836.	8.0	34
90	Highâ€Performance Flexible Organic Nanoâ€Floating Gate Memory Devices Functionalized with Cobalt Ferrite Nanoparticles. Small, 2015, 11, 4976-4984.	10.0	33

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91	Furan-flanked diketopyrrolopyrrole-based chalcogenophene copolymers with siloxane hybrid side chains for organic field-effect transistors. Polymer Chemistry, 2019, 10, 2854-2862.	3.9	33
92	Surface-Doped Quasi-2D Chiral Organic Single Crystals for Chiroptical Sensing. ACS Nano, 2020, 14, 14146-14156.	14.6	33
93	Highly Enantioselective Graphene-Based Chemical Sensors Prepared by Chiral Noncovalent Functionalization. ACS Applied Materials & Samp; Interfaces, 2018, 10, 36194-36201.	8.0	32
94	Deformable and Stretchable Electrodes for Soft Electronic Devices. Macromolecular Research, 2019, 27, 625-639.	2.4	32
95	Water Processable Polythiophene Nanowires by Photo-Cross-Linking and Click-Functionalization. Nano Letters, 2015, 15, 5689-5695.	9.1	31
96	A Top-Down Approach to Fullerene Fabrication Using a Polymer Nanoparticle Precursor. Advanced Materials, 2004, 16, 1650-1653.	21.0	30
97	Highly Efficient Hole Transport Layerâ€Free Low Bandgap Mixed Pb–Sn Perovskite Solar Cells Enabled by a Binary Additive System. Advanced Functional Materials, 2022, 32, 2110069.	14.9	30
98	Ultra-narrow-bandgap thienoisoindigo polymers: structure–property correlations in field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 9554-9560.	5.5	28
99	Morphogenesis and Optoelectronic Properties of Supramolecular Assemblies of Chiral Perylene Diimides in a Binary Solvent System. Scientific Reports, 2017, 7, 5508.	3.3	28
100	Organic n-Channel Transistors Based on [1]Benzothieno[3,2- <i>b</i> ) benzothiophene–Rylene Diimide Donor–Acceptor Conjugated Polymers. ACS Applied Materials & Donor— (2018, 10, 32444-32453).	8.0	28
101	Stretchable N-Type High-Performance Polymers Based on Asymmetric Thienylvinyl-1,1-Dicyanomethylene-3-Indanone for Plastic Electronics. Chemistry of Materials, 2022, 34, 1554-1566.	6.7	27
102	Electrical Transport through Single Nanowires of Dialkyl Perylene Diimide. Journal of Physical Chemistry C, 2013, 117, 10743-10749.	3.1	26
103	Understanding of Fluorination Dependence on Electron Mobility and Stability of Naphthalenediimide-Based Polymer Transistors in Environment with 100% Relative Humidity. ACS Applied Materials & Diterfaces, 2019, 11, 40347-40357.	8.0	26
104	Solution-Assembled Blends of Regioregularity-Controlled Polythiophenes for Coexistence of Mechanical Resilience and Electronic Performance. ACS Applied Materials & Samp; Interfaces, 2017, 9, 14120-14128.	8.0	25
105	Polarity and Air-Stability Transitions in Field-Effect Transistors Based on Fullerenes with Different Solubilizing Groups. ACS Applied Materials & Solubilizing Groups.	8.0	24
106	Effect of alkyl chain spacer on charge transport in n-type dominant polymer semiconductors with a diketopyrrolopyrrole-thiophene-bithiazole acceptor–donor–acceptor unit. Journal of Materials Chemistry C, 2017, 5, 3616-3622.	5.5	23
107	Tuning the supramolecular chirality and optoelectronic performance of chiral perylene diimide nanowires <i>via N</i> -substituted side chain engineering. Journal of Materials Chemistry C, 2019, 7, 8688-8697.	5.5	23
108	Neuromorphic bioelectronics based on semiconducting polymers. Journal of Polymer Science, 2022, 60, 348-376.	3.8	23

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109	Ultrasensitive Nearâ€Infrared Circularly Polarized Light Detection Using 3D Perovskite Embedded with Chiral Plasmonic Nanoparticles. Advanced Science, 2022, 9, e2104598.	11.2	23
110	Morphogenesis of Evaporation-Induced Self-Assemblies of Polypyrrole Nanoparticles Dispersed in a Liquid Medium. Langmuir, 2004, 20, 8419-8422.	3.5	22
111	Photoinduced Chargeâ€Carrier Dynamics of Phototransistors Based on Perylene Diimide/Reduced Graphene Oxide Core/Shell p–n Junction Nanowires. Advanced Optical Materials, 2015, 3, 241-247.	<b>7.</b> 3	22
112	Requirements for Forming Efficient 3-D Charge Transport Pathway in Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Emp; Interfaces, 2016, 8, 12307-12315.	8.0	22
113	Flexible high-performance graphene hybrid photodetectors functionalized with gold nanostars and perovskites. NPG Asia Materials, 2020, $12$ , .	7.9	21
114	Siloxaneâ€Based Hybrid Semiconducting Polymers Prepared by Fluorideâ€Mediated Suzuki Polymerization. Angewandte Chemie - International Edition, 2015, 54, 4657-4660.	13.8	20
115	Bioderived and Eco-Friendly Solvent-Processed High-Mobility Ambipolar Plastic Transistors through Controlled Irregularity of the Polymer Backbone. Chemistry of Materials, 2019, 31, 3831-3839.	6.7	20
116	Flexible Lowâ€Power Operative Organic Sourceâ€Gated Transistors. Advanced Functional Materials, 2019, 29, 1900650.	14.9	20
117	Diazapentalene-Containing Ultralow-Band-Gap Copolymers for High-Performance Near-Infrared Organic Phototransistors. Chemistry of Materials, 2021, 33, 7499-7508.	6.7	19
118	Fabrication of One-Dimensional Organic Nanomaterials and Their Optoelectronic Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 1282-1302.	0.9	18
119	Highly stretchable fiber transistors with all-stretchable electronic components and graphene hybrid electrodes. Organic Electronics, 2019, 69, 320-328.	2.6	18
120	Waferâ€Scale Patterning of Reduced Graphene Oxide Electrodes by Transferâ€andâ€Reverse Stamping for High Performance OFETs. Small, 2013, 9, 2817-2825.	10.0	17
121	High-Performance Ambipolar Organic Phototransistors Based on Core–Shell p–n Junction Organic Single Crystals. ACS Applied Electronic Materials, 2020, 2, 9-18.	4.3	17
122	In situ FT-IR spectroscopic investigation on the microstructure of hyperbranched aliphatic polyesters. Polymer, 1999, 40, 5985-5992.	3.8	16
123	Molecular structure-device performance relationship in polymer solar cells based on indene-C60 bis-adduct derivatives. Korean Journal of Chemical Engineering, 2015, 32, 261-267.	2.7	16
124	Bay-Substitution Effect of Perylene Diimides on Supramolecular Chirality and Optoelectronic Properties of Their Self-Assembled Nanostructures. ACS Applied Materials & Samp; Interfaces, 2021, 13, 12278-12285.	8.0	16
125	Fused Aromatic Network with Exceptionally High Carrier Mobility. Advanced Materials, 2021, 33, e2004707.	21.0	16
126	Fabrication of Stretchable and Transparent Core–Shell Polymeric Nanofibers Using Coaxial Electrospinning and Their Application to Phototransistors. Advanced Electronic Materials, 2021, 7, 2001000.	5.1	15

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127	Usefulness of Polar and Bulky Phosphonate Chain-End Solubilizing Groups in Polymeric Semiconductors. Macromolecules, 2022, 55, 4367-4377.	4.8	15
128	Impact of regioregularity on thin-film transistor and photovoltaic cell performances of pentacene-containing polymers. Journal of Materials Chemistry, 2012, 22, 4356.	6.7	14
129	Structural Investigation of Chemiresistive Sensing Mechanism in Redox-Active Porous Coordination Network. Inorganic Chemistry, 2017, 56, 8735-8738.	4.0	14
130	Micro-/nano-sized multifunctional heterochiral metal–organic frameworks for high-performance visible–blind UV photodetectors. Journal of Materials Chemistry C, 2021, 9, 7310-7318.	5.5	14
131	Phenyl Derivative of Dibenzothiopheno[6,5â€ <i>b</i> :6′,5′â€ <i>f</i> ]Thieno[3,2â€ <i>b</i> ]Thiophene (DPhâ€DBTTT): High Thermally Durable Organic Semiconductor for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Electronic Materials, 2017, 3, 1700142.	5.1	13
132	A Flexible Highâ∈Performance Photoimaging Device Based on Bioinspired Hierarchical Multipleâ∈Patterned Plasmonic Nanostructures. Small, 2018, 14, e1703890.	10.0	13
133	Ambipolar organic phototransistors based on 6,6′-dibromoindigo. RSC Advances, 2018, 8, 14747-14752.	3.6	13
134	High-Performance Hybrid Photovoltaics with Efficient Interfacial Contacts between Vertically Aligned ZnO Nanowire Arrays and Organic Semiconductors. ACS Omega, 2019, 4, 9996-10002.	3.5	13
135	Optoelectronic Property Modulation in Chiral Organic Semiconductor/Polymer Blends. ACS Applied Materials & Samp; Interfaces, 2020, 12, 49926-49934.	8.0	13
136	ZnO Nanowire Based Photoelectrical Resistive Switches for Flexible Memory. Journal of the Electrochemical Society, 2015, 162, H713-H718.	2.9	12
137	Organic n-channel thin film transistors based on dichlorinated naphthalene diimides. , 2010, , .		11
138	Heterochiral Doped Supramolecular Coordination Networks for High-Performance Optoelectronics. ACS Applied Materials & Diterfaces, 2019, 11, 20174-20182.	8.0	11
139	"Majorityâ€Rules―Effect on Supramolecular Chirality and Optoelectronic Properties of Chiral Tetrachloroâ€Perylene Diimides. Advanced Optical Materials, 2021, 9, 2001911.	7.3	10
140	Effects of the Polarity and Bulkiness of End-Functionalized Side Chains on the Charge Transport of Dicyanovinyl-End-Capped Diketopyrrolopyrrole-Based n-Type Small Molecules. ACS Applied Materials & Amp; Interfaces, 2021, 13, 52840-52849.	8.0	10
141	Boosting the Optoelectronic Properties of Molybdenum Diselenide by Combining Phase Transition Engineering with Organic Cationic Dye Doping. ACS Nano, 2021, 15, 17769-17779.	14.6	10
142	Use of heteroaromatic spacers in isoindigo-benzothiadiazole polymers for ambipolar charge transport. Physical Chemistry Chemical Physics, 2015, 17, 26512-26518.	2.8	9
143	Non-halogenated solution-processed ambipolar plastic transistors based on conjugated polymers prepared by asymmetric donor engineering. Journal of Materials Chemistry C, 2019, 7, 14977-14985.	5.5	9
144	Observation of orientation-dependent photovoltaic behaviors in aligned organic nanowires. Applied Physics Letters, 2013, 103, .	3.3	8

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145	Effects of microwave-assisted annealing on the morphology and electrical performance of semiconducting polymer thin films. Organic Electronics, 2016, 30, 207-212.	2.6	7
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