

Joon Hak Oh

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156
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164
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12,236
ext. citations

11.7
avg, IF

6.38
L-index

#	Paper	IF	Citations
156	Nitrogenated holey two-dimensional structures. <i>Nature Communications</i> , 2015 , 6, 6486	17.4	684
155	High-performance air-stable n-channel organic thin film transistors based on halogenated perylene bisimide semiconductors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6215-28	16.4	553
154	Crystalline ultrasmooth self-assembled monolayers of alkylsilanes for organic field-effect transistors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9396-404	16.4	493
153	Boosting the ambipolar performance of solution-processable polymer semiconductors via hybrid side-chain engineering. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9540-7	16.4	422
152	Solution-processable ambipolar diketopyrrolopyrrole-selenophene polymer with unprecedentedly high hole and electron mobilities. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20713-21	16.4	312
151	A crystal-engineered hydrogen-bonded octachloroperylene diimide with a twisted core: an n-channel organic semiconductor. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 740-3	16.4	311
150	Chlorination: a general route toward electron transport in organic semiconductors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3733-40	16.4	292
149	Selective dispersion of high purity semiconducting single-walled carbon nanotubes with regioregular poly(3-alkylthiophene)s. <i>Nature Communications</i> , 2011 , 2, 541	17.4	291
148	Use of a 1H-benzoimidazole derivative as an n-type dopant and to enable air-stable solution-processed n-channel organic thin-film transistors. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8852-3	16.4	291
147	Two-dimensional polyaniline (C3N) from carbonized organic single crystals in solid state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7414-9	11.5	278
146	Core-Fluorinated Perylene Bisimide Dyes: Air Stable n-Channel Organic Semiconductors for Thin Film Transistors with Exceptionally High On-to-Off Current Ratios. <i>Advanced Materials</i> , 2007 , 19, 3692-3695	24.5	223
145	Investigation of Structure-Property Relationships in Diketopyrrolopyrrole-Based Polymer Semiconductors via Side-Chain Engineering. <i>Chemistry of Materials</i> , 2015 , 27, 1732-1739	9.6	220
144	High-Performance Air-Stable n-Type Organic Transistors Based on Core-Chlorinated Naphthalene Tetracarboxylic Diimides. <i>Advanced Functional Materials</i> , 2010 , 20, 2148-2156	15.6	210
143	Solution-processed, high-performance n-channel organic microwire transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6065-70	11.5	209
142	The Role of OTS Density on Pentacene and C60 Nucleation, Thin Film Growth, and Transistor Performance. <i>Advanced Functional Materials</i> , 2009 , 19, 1962-1970	15.6	209
141	Flexible FET-type VEGF aptasensor based on nitrogen-doped graphene converted from conducting polymer. <i>ACS Nano</i> , 2012 , 6, 1486-93	16.7	206
140	High-Performance Phototransistors Based on Single-Crystalline n-Channel Organic Nanowires and Photogenerated Charge-Carrier Behaviors. <i>Advanced Functional Materials</i> , 2013 , 23, 629-639	15.6	158

139	Tuning Mechanical and Optoelectrical Properties of Poly(3-hexylthiophene) through Systematic Regioregularity Control. <i>Macromolecules</i> , 2015 , 48, 4339-4346	5.5	156
138	Solvent-Resistant Organic Transistors and Thermally Stable Organic Photovoltaics Based on Cross-linkable Conjugated Polymers. <i>Chemistry of Materials</i> , 2012 , 24, 215-221	9.6	140
137	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. <i>Applied Physics Letters</i> , 2007 , 91, 212107	3.4	137
136	Fabrication of a Highly Transparent Conductive Thin Film from Polypyrrole/Poly(methyl methacrylate) Core/Shell Nanospheres. <i>Advanced Functional Materials</i> , 2005 , 15, 494-502	15.6	137
135	Side Chain Optimization of Naphthalenediimide-Bithiophene-Based Polymers to Enhance the Electron Mobility and the Performance in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 1543-1553	15.6	130
134	Aryl-Perfluoroaryl Substituted Tetracene: Induction of Face-to-Face π -Stacking and Enhancement of Charge Carrier Properties. <i>Chemistry of Materials</i> , 2011 , 23, 1646-1649	9.6	125
133	Determining Optimal Crystallinity of Diketopyrrolopyrrole-Based Terpolymers for Highly Efficient Polymer Solar Cells and Transistors. <i>Chemistry of Materials</i> , 2014 , 26, 6963-6970	9.6	123
132	Importance of Electron Transport Ability in Naphthalene Diimide-Based Polymer Acceptors for High-Performance, Additive-Free, All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 5230-5237	9.6	115
131	Facile Fabrication of Photochromic Dye-Conducting Polymer Core-Shell Nanomaterials and Their Photoluminescence. <i>Advanced Materials</i> , 2003 , 15, 977-980	24	113
130	Enhancing 2D growth of organic semiconductor thin films with macroporous structures via a small-molecule heterointerface. <i>Nature Communications</i> , 2014 , 5, 4752	17.4	110
129	Boosting the performance and stability of quasi-two-dimensional tin-based perovskite solar cells using the formamidinium thiocyanate additive. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18173-18182	13	110
128	π -Branched Flexible Side Chain Substituted Diketopyrrolopyrrole-Containing Polymers Designed for High Hole and Electron Mobilities. <i>Advanced Functional Materials</i> , 2015 , 25, 247-254	15.6	106
127	Flexible Field-Effect Transistor-Type Sensors Based on Conjugated Molecules. <i>CheM</i> , 2017 , 3, 724-763	16.2	106
126	Wearable high-performance pressure sensors based on three-dimensional electrospun conductive nanofibers. <i>NPG Asia Materials</i> , 2018 , 10, 540-551	10.3	102
125	Nitrogen-doped graphene nanoplatelets from simple solution edge-functionalization for n-type field-effect transistors. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8981-8	16.4	102
124	Toward Environmentally Robust Organic Electronics: Approaches and Applications. <i>Advanced Materials</i> , 2017 , 29, 1703638	24	94
123	Supramolecular Nanostructures of Chiral Perylene Diimides with Amplified Chirality for High-Performance Chiroptical Sensing. <i>Advanced Materials</i> , 2017 , 29, 1605828	24	91
122	Organic Transistor-Based Chemical Sensors for Wearable Bioelectronics. <i>Accounts of Chemical Research</i> , 2018 , 51, 2829-2838	24.3	89

121	A facile synthesis of polypyrrole nanotubes using a template-mediated vapor deposition polymerization and the conversion to carbon nanotubes. <i>Chemical Communications</i> , 2004 , 882-3	5.8	88
120	Large-scale graphene micropattern nano-biohybrids: high-performance transducers for FET-type flexible fluidic HIV immunoassays. <i>Advanced Materials</i> , 2013 , 25, 4177-85	24	85
119	Highly Flexible Organic Nanofiber Phototransistors Fabricated on a Textile Composite for Wearable Photosensors. <i>Advanced Functional Materials</i> , 2016 , 26, 1445-1453	15.6	85
118	Inversion of Dominant Polarity in Ambipolar Polydiketopyrrolopyrrole with Thermally Removable Groups. <i>Advanced Functional Materials</i> , 2012 , 22, 4128-4138	15.6	81
117	Recent advances in organic sensors for health self-monitoring systems. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8569-8612	7.1	80
116	Naphthalene Diimide Incorporated Thiophene-Free Copolymers with Acene and Heteroacene Units: Comparison of Geometric Features and Electron-Donating Strength of Co-units. <i>Chemistry of Materials</i> , 2013 , 25, 3251-3259	9.6	79
115	Interplay between Energetic and Kinetic Factors on the Ambient Stability of n-Channel Organic Transistors Based on Perylene Diimide Derivatives. <i>Chemistry of Materials</i> , 2009 , 21, 5508-5518	9.6	77
114	High-Mobility Air-Stable Solution-Shear-Processed n-Channel Organic Transistors Based on Core-Chlorinated Naphthalene Diimides. <i>Advanced Functional Materials</i> , 2011 , 21, 4173-4181	15.6	76
113	Fabrication of Photoluminescent-Dye Embedded Poly(methyl methacrylate) Nanofibers and Their Fluorescence Resonance Energy Transfer Properties. <i>Advanced Materials</i> , 2006 , 18, 2216-2219	24	75
112	Influence of intermolecular interactions of electron donating small molecules on their molecular packing and performance in organic electronic devices. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14538	13	68
111	Molecular n-type doping for air-stable electron transport in vacuum-processed n-channel organic transistors. <i>Applied Physics Letters</i> , 2010 , 97, 243305	3.4	68
110	Acceptor-acceptor type isoindigo-based copolymers for high-performance n-channel field-effect transistors. <i>Chemical Communications</i> , 2014 , 50, 2180-3	5.8	67
109	Novel crystalline supramolecular assemblies of amorphous polypyrrole nanoparticles through surfactant templating. <i>Chemical Communications</i> , 2002 , 2200-1	5.8	67
108	Visible-Near Infrared Absorbing Polymers Containing Thienoisoindigo and Electron-Rich Units for Organic Transistors with Tunable Polarity. <i>Advanced Functional Materials</i> , 2013 , 23, 5317-5325	15.6	66
107	High-Performance UV-Vis-NIR Phototransistors Based on Single-Crystalline Organic Semiconductor-Gold Hybrid Nanomaterials. <i>Advanced Functional Materials</i> , 2017 , 27, 1604528	15.6	65
106	Curing behavior of tetrafunctional epoxy resin/hyperbranched polymer system. <i>Polymer</i> , 2001 , 42, 8339-8347	3.47	65
105	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. <i>Nano Energy</i> , 2018 , 48, 575-581	17.1	64
104	Solution-shear-processed quaterylene diimide thin-film transistors prepared by pressure-assisted thermal cleavage of swallow tails. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4204-7	16.4	64

103	Facile fabrication of polymer and carbon nanocapsules using polypyrrole core/shell nanomaterials. <i>Chemical Communications</i> , 2004 , 794-5	5.8	64
102	Flexible Organic Phototransistor Array with Enhanced Responsivity via Metal-Ligand Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7291-9	9.5	63
101	Direct solvothermal synthesis of B/N-doped graphene. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2398-401	16.4	57
100	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	7.1	54
99	Highly Sensitive and Selective Biosensors Based on Organic Transistors Functionalized with Cucurbit[6]uril Derivatives. <i>Advanced Functional Materials</i> , 2015 , 25, 4882-4888	15.6	54
98	Point-of-Use Detection of Amphetamine-Type Stimulants with Host-Molecule-Functionalized Organic Transistors. <i>CheM</i> , 2017 , 3, 641-651	16.2	52
97	Siloxane Side Chains: A Universal Tool for Practical Applications of Organic Field-Effect Transistors. <i>Macromolecules</i> , 2016 , 49, 3739-3748	5.5	51
96	Amplified circularly polarized phosphorescence from co-assemblies of platinum(ii) complexes. <i>Chemical Science</i> , 2019 , 10, 1294-1301	9.4	51
95	Lyotropic liquid-crystalline solutions of high-concentration dispersions of single-walled carbon nanotubes with conjugated polymers. <i>Small</i> , 2009 , 5, 1019-24	11	50
94	Ethanol-Processable, Highly Crystalline Conjugated Polymers for Eco-Friendly Fabrication of Organic Transistors and Solar Cells. <i>Macromolecules</i> , 2017 , 50, 4415-4424	5.5	49
93	Chemically Robust Ambipolar Organic Transistor Array Directly Patterned by Photolithography. <i>Advanced Materials</i> , 2017 , 29, 1605282	24	49
92	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymer/Bullerene Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 51-65	15.6	49
91	Direct Patterning of Organic-Thin-Film-Transistor Arrays via a Dry-Taping Approach. <i>Advanced Materials</i> , 2009 , 21, 1266-1270	24	48
90	Stretchable and Self-Healable Conductive Hydrogels for Wearable Multimodal Touch Sensors with Thermo-responsive Behavior. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26134-26143	9.5	47
89	Highly sensitive and selective liquid-phase sensors based on a solvent-resistant organic-transistor platform. <i>Advanced Materials</i> , 2015 , 27, 1540-6	24	47
88	Ambipolar Semiconducting Polymers with π -Spacer Linked Bis-Benzothiadiazole Blocks as Strong Accepting Units. <i>Chemistry of Materials</i> , 2014 , 26, 4933-4942	9.6	47
87	Chiral self-sorted multifunctional supramolecular biocoordination polymers and their applications in sensors. <i>Nature Communications</i> , 2018 , 9, 3933	17.4	47
86	Fluorinated benzothiadiazole (BT) groups as a powerful unit for high-performance electron-transporting polymers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20390-9	9.5	46

85	Highly Conductive Graphene/Ag Hybrid Fibers for Flexible Fiber-Type Transistors. <i>Scientific Reports</i> , 2015 , 5, 16366	4.9	42
84	A novel synthesis of nanocapsules using identical polymer core/shell nanospheres. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2872		42
83	High-Performance Furan-Containing Conjugated Polymer for Environmentally Benign Solution Processing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15652-15661	9.5	39
82	Crystallization Behavior of Poly(ethylene terephthalate) Blended with Hyperbranched Polymers: The Effect of Terminal Groups and Composition of Hyperbranched Polymers. <i>Macromolecules</i> , 2000 , 33, 1864-1870	5.5	39
81	A Role of Side-Chain Regiochemistry of ThienyleneVinyleneThienylene (TVT) in the Transistor Performance of Isomeric Polymers. <i>Macromolecules</i> , 2017 , 50, 884-890	5.5	38
80	Fabrication of Photoluminescent Dyes/Poly(acrylonitrile) Coaxial Nanotubes Using Vapor Deposition Polymerization. <i>Chemistry of Materials</i> , 2006 , 18, 5002-5008	9.6	38
79	Extended perylene diimide double-heterohelicenes as ambipolar organic semiconductors for broadband circularly polarized light detection. <i>Nature Communications</i> , 2021 , 12, 142	17.4	38
78	Alkyl substituted Dithieno[2,3-d;2',3'-d']benzo[1,2-b;4,5-b']dithiophene Semiconducting Materials and Their Application to Solution-Processed Organic Transistors. <i>Chemistry of Materials</i> , 2012 , 24, 3464-3472	9.6	36
77	Regular H-Bonding-Containing Polymers with Stretchability up to 100% External Strain for Self-Healable Plastic Transistors. <i>Chemistry of Materials</i> , 2020 , 32, 1914-1924	9.6	35
76	Solution-processed flexible organic transistors showing very-low subthreshold slope with a bilayer polymeric dielectric on plastic. <i>Applied Physics Letters</i> , 2009 , 94, 203301	3.4	35
75	Efficient and Air-Stable Aqueous-Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thin-Film Morphologies of Electroactive Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1802674	21.8	34
74	Graphene-ruthenium complex hybrid photodetectors with ultrahigh photoresponsivity. <i>Small</i> , 2014 , 10, 3700-6	11	32
73	Boosting the Performance of Organic Optoelectronic Devices Using Multiple-Patterned Plasmonic Nanostructures. <i>Advanced Materials</i> , 2016 , 28, 4976-82	24	30
72	Synergistic Effects of Cation and Anion in an Ionic Imidazolium Tetrafluoroborate Additive for Improving the Efficiency and Stability of Half-Mixed Pb-Sn Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2008801	15.6	30
71	A TopDown Approach to Fullerene Fabrication Using a Polymer Nanoparticle Precursor. <i>Advanced Materials</i> , 2004 , 16, 1650-1653	24	29
70	Highly flexible chemical sensors based on polymer nanofiber field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1525-1531	7.1	28
69	High-Performance Flexible Organic Nano-Floating Gate Memory Devices Functionalized with Cobalt Ferrite Nanoparticles. <i>Small</i> , 2015 , 11, 4976-84	11	28
68	Furan-flanked diketopyrrolopyrrole-based chalcogenophene copolymers with siloxane hybrid side chains for organic field-effect transistors. <i>Polymer Chemistry</i> , 2019 , 10, 2854-2862	4.9	27

67	Water Processable Polythiophene Nanowires by Photo-Cross-Linking and Click-Functionalization. <i>Nano Letters</i> , 2015 , 15, 5689-95	11.5	27
66	Ultra-narrow-bandgap thienoisindigo polymers: structure-property correlations in field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9554-9560	7.1	27
65	High-Performance Visible-Blind UV Phototransistors Based on n-Type Naphthalene Diimide Nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11826-11836	9.5	26
64	A Hippocampus-Inspired Dual-Gated Organic Artificial Synapse for Simultaneous Sensing of a Neurotransmitter and Light. <i>Advanced Materials</i> , 2021 , 33, e2100119	24	23
63	Solution-Assembled Blends of Regioregularity-Controlled Polythiophenes for Coexistence of Mechanical Resilience and Electronic Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14120-14128	9.5	22
62	Electrical Transport through Single Nanowires of Dialkyl Perylene Diimide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10743-10749	3.8	22
61	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	7.1	21
60	Deformable and Stretchable Electrodes for Soft Electronic Devices. <i>Macromolecular Research</i> , 2019 , 27, 625-639	1.9	21
59	Polarity and air-stability transitions in field-effect transistors based on fullerenes with different solubilizing groups. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4865-71	9.5	21
58	Morphogenesis of evaporation-induced self-assemblies of polypyrrole nanoparticles dispersed in a liquid medium. <i>Langmuir</i> , 2004 , 20, 8419-22	4	20
57	Photoinduced Charge-Carrier Dynamics of Phototransistors Based on Perylene Diimide/Reduced Graphene Oxide Core/Shell p-n Junction Nanowires. <i>Advanced Optical Materials</i> , 2015 , 3, 241-247	8.1	19
56	Morphogenesis and Optoelectronic Properties of Supramolecular Assemblies of Chiral Perylene Diimides in a Binary Solvent System. <i>Scientific Reports</i> , 2017 , 7, 5508	4.9	19
55	Siloxane-based hybrid semiconducting polymers prepared by fluoride-mediated suzuki polymerization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4657-60	16.4	19
54	Requirements for Forming Efficient 3-D Charge Transport Pathway in Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12307-15	9.5	19
53	Perovskite Granular Wire Photodetectors with Ultrahigh Photodetectivity. <i>Advanced Materials</i> , 2020 , 32, e2002357	24	18
52	Fabrication of one-dimensional organic nanomaterials and their optoelectronic applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 1282-302	1.3	18
51	Organic n-Channel Transistors Based on [1]Benzothieno[3,2- b]benzothiophene-Rylene Diimide Donor-Acceptor Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32444-32453	9.5	18
50	Understanding of Fluorination Dependence on Electron Mobility and Stability of Naphthalenediimide-Based Polymer Transistors in Environment with 100% Relative Humidity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40347-40357	9.5	17

49	Bioderived and Eco-Friendly Solvent-Processed High-Mobility Ambipolar Plastic Transistors through Controlled Irregularity of the Polymer Backbone. <i>Chemistry of Materials</i> , 2019 , 31, 3831-3839	9.6	15
48	Molecular structure-device performance relationship in polymer solar cells based on indene-C60 bis-adduct derivatives. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 261-267	2.8	15
47	Wafer-scale patterning of reduced graphene oxide electrodes by transfer-and-reverse stamping for high performance OFETs. <i>Small</i> , 2013 , 9, 2817-25	11	15
46	Flexible Low-Power Operative Organic Source-Gated Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1900650	15.6	14
45	In situ FT-IR spectroscopic investigation on the microstructure of hyperbranched aliphatic polyesters. <i>Polymer</i> , 1999 , 40, 5985-5992	3.9	14
44	Surface-Doped Quasi-2D Chiral Organic Single Crystals for Chiroptical Sensing. <i>ACS Nano</i> , 2020 , 14, 1414661-141564	16.1	14
43	A Flexible High-Performance Photoimaging Device Based on Bioinspired Hierarchical Multiple-Patterned Plasmonic Nanostructures. <i>Small</i> , 2018 , 14, e1703890	11	13
42	Impact of regioregularity on thin-film transistor and photovoltaic cell performances of pentacene-containing polymers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4356		13
41	Structural Investigation of Chemiresistive Sensing Mechanism in Redox-Active Porous Coordination Network. <i>Inorganic Chemistry</i> , 2017 , 56, 8735-8738	5.1	12
40	High-Performance Ambipolar Organic Phototransistors Based on Core-Shell p-n Junction Organic Single Crystals. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 9-18	4	12
39	ZnO Nanowire Based Photoelectrical Resistive Switches for Flexible Memory. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H713-H718	3.9	11
38	Direct Solvothermal Synthesis of B/N-Doped Graphene. <i>Angewandte Chemie</i> , 2014 , 126, 2430-2433	3.6	11
37	Phenyl Derivative of Dibenzothiopheno[6,5-b:6',5'-f]Thieno[3,2-b]Thiophene (DPh-DBTTT): High Thermally Durable Organic Semiconductor for High-Performance Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700142	6.4	11
36	Organic n-channel thin film transistors based on dichlorinated naphthalene diimides 2010 ,		11
35	Highly Enantioselective Graphene-Based Chemical Sensors Prepared by Chiral Noncovalent Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36194-36201	9.5	11
34	Tuning the supramolecular chirality and optoelectronic performance of chiral perylene diimide nanowires via N-substituted side chain engineering. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8688-8697	7.1	10
33	Heterochiral Doped Supramolecular Coordination Networks for High-Performance Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20174-20182	9.5	9
32	Highly stretchable fiber transistors with all-stretchable electronic components and graphene hybrid electrodes. <i>Organic Electronics</i> , 2019 , 69, 320-328	3.5	9

31	High-Performance Hybrid Photovoltaics with Efficient Interfacial Contacts between Vertically Aligned ZnO Nanowire Arrays and Organic Semiconductors. <i>ACS Omega</i> , 2019 , 4, 9996-10002	3.9	8
30	Use of heteroaromatic spacers in isoindigo-benzothiadiazole polymers for ambipolar charge transport. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26512-8	3.6	8
29	Observation of orientation-dependent photovoltaic behaviors in aligned organic nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 053304	3.4	8
28	Ambipolar organic phototransistors based on 6,6'-dibromoindigo.. <i>RSC Advances</i> , 2018 , 8, 14747-14752	3.7	7
27	Effects of microwave-assisted annealing on the morphology and electrical performance of semiconducting polymer thin films. <i>Organic Electronics</i> , 2016 , 30, 207-212	3.5	7
26	Non-halogenated solution-processed ambipolar plastic transistors based on conjugated polymers prepared by asymmetric donor engineering. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14977-14985	7.1	7
25	Fused Aromatic Network with Exceptionally High Carrier Mobility. <i>Advanced Materials</i> , 2021 , 33, e2004707	7.1	6
24	Highly Efficient Hole Transport Layer-Free Low Bandgap Mixed PbSn Perovskite Solar Cells Enabled by a Binary Additive System. <i>Advanced Functional Materials</i> , 2110069	15.6	5
23	Flexible high-performance graphene hybrid photodetectors functionalized with gold nanostars and perovskites. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	5
22	Optoelectronic Property Modulation in Chiral Organic Semiconductor/Polymer Blends. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49926-49934	9.5	5
21	Reduced Pyronin B as a solution-processable and heating-free n-type dopant for soft electronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6672-6679	7.1	5
20	Organic Phototransistors Based on Self-Assembled Microwires of n-Type Distyrylbenzene Derivative. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 2302-2308	3	4
19	Fabrication of Stretchable and Transparent CoreShell Polymeric Nanofibers Using Coaxial Electrospinning and Their Application to Phototransistors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001000	6.4	4
18	Neuromorphic bioelectronics based on semiconducting polymers. <i>Journal of Polymer Science</i> ,	2.4	4
17	Diazapentalene-Containing Ultralow-Band-Gap Copolymers for High-Performance Near-Infrared Organic Phototransistors. <i>Chemistry of Materials</i> , 2021 , 33, 7499-7508	9.6	4
16	Majority-Rules Effect on Supramolecular Chirality and Optoelectronic Properties of Chiral Tetrachloro-Perylene Diimides. <i>Advanced Optical Materials</i> , 2021 , 9, 2001911	8.1	4
15	Ultrasensitive Near-Infrared Circularly Polarized Light Detection Using 3D Perovskite Embedded with Chiral Plasmonic Nanoparticles.. <i>Advanced Science</i> , 2022 , e2104598	13.6	3
14	Perovskite Photodetectors: Perovskite Granular Wire Photodetectors with Ultrahigh Photodetectivity (Adv. Mater. 32/2020). <i>Advanced Materials</i> , 2020 , 32, 2070238	24	3

13	Siloxane-Based Hybrid Semiconducting Polymers Prepared by Fluoride-Mediated Suzuki Polymerization. <i>Angewandte Chemie</i> , 2015 , 127, 4740-4743	3.6	2
12	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. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
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10	An efficient lactone-to-lactam conversion for the synthesis of thiophene Pechmann lactam and the characterization of polymers thereof. <i>Polymer Chemistry</i> , 2018 , 9, 5234-5241	4.9	2
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