Young-Yong Noh

List of Publications by Year
in descending order

373	19,766	13854 67	14736 127
papers	citations	h-index	g-index

412	412	412	16276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent progress in lactamâ€based polymer semiconductors for organic electronic devices. Journal of Polymer Science, 2022, 60, 429-485.	2.0	9
2	Toward color-selective printed organic photodetectors for high-resolution image sensors: From fundamentals to potential commercialization. Materials Science and Engineering Reports, 2022, 147, 100660.	14.8	28
3	Effect of Branching position of alkyl side chain on charge-transport characteristics of diketopyrrolopyrrole- and dichlorodithienylethene-based organic field-effect transistors. Organic Electronics, 2022, 101, 106403.	1.4	2
4	Pursuing Highâ€Performance Organic Fieldâ€Effect Transistors through Organic Salt Doping. Advanced Functional Materials, 2022, 32, .	7.8	14
5	Sodium Incorporation for Enhanced Performance of Two-Dimensional Sn-Based Perovskite Transistors. ACS Applied Materials & Interfaces, 2022, 14, 9363-9367.	4.0	14
6	High-performance inorganic metal halide perovskite transistors. Nature Electronics, 2022, 5, 78-83.	13.1	121
7	Modulation of vacancy-ordered double perovskite Cs2SnI6 for air-stable thin-film transistors. Cell Reports Physical Science, 2022, 3, 100812.	2.8	17
8	High-performance hysteresis-free perovskite transistors through anion engineering. Nature Communications, 2022, 13, 1741.	5.8	51
9	Molecular Doping Enabling Mobility Boosting of 2D Sn²⁺â€Based Perovskites. Advanced Functional Materials, 2022, 32, .	7.8	18
10	Recent progress in the development of backplane thin film transistors for information displays. Journal of Information Display, 2021, 22, 1-11.	2.1	60
11	Short Alkyl Chain Engineering Modulation on Naphthalene Flanked Diketopyrrolopyrrole toward Highâ€Performance Single Crystal Transistors and Organic Thin Film Displays. Advanced Electronic Materials, 2021, 7, 2000804.	2.6	18
12	Key Roles of Trace Oxygen Treatment for Highâ€Performance Znâ€Doped CuI pâ€Channel Transistors. Advanced Electronic Materials, 2021, 7, .	2.6	17
13	Pixellated Perovskite Photodiode on IGZO Thin Film Transistor Backplane for Low Dose Indirect X-Ray Detection. IEEE Journal of the Electron Devices Society, 2021, 9, 96-101.	1.2	11
14	Highly Reliable Organic Field-Effect Transistors with Molecular Additives for a High-Performance Printed Gas Sensor. ACS Applied Materials & Interfaces, 2021, 13, 4278-4283.	4.0	17
15	Introducing an Organic Hole Transporting Material as a Bilayer to Improve the Efficiency and Stability of Perovskite Solar Cells. Macromolecular Research, 2021, 29, 149-156.	1.0	8
16	Effect of Monovalent Metal Iodide Additives on the Optoelectric Properties of Two-Dimensional Sn-Based Perovskite Films. Chemistry of Materials, 2021, 33, 2498-2505.	3.2	28
17	Engineering Copper Iodide (CuI) for Multifunctional pâ€Type Transparent Semiconductors and Conductors. Advanced Science, 2021, 8, 2100546.	5.6	74
18	8â€4: Invited Paper: Transparent Zn Dopedâ€CuI for Highâ€Performance pâ€Channel Thin Film Transistors. Digest of Technical Papers SID International Symposium, 2021, 52, 89-91.	0.1	0

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19	Toward high-performance p-type, tin-based perovskite thin film transistors. Applied Physics Letters, 2021, 118, .	1.5	3
20	Recent progress on metal halide perovskite field-effect transistors. Journal of Information Display, 2021, 22, 257-268.	2.1	16
21	Inorganic pâ€Type Semiconductors: Engineering Copper Iodide (CuI) for Multifunctional pâ€Type Transparent Semiconductors and Conductors (Adv. Sci. 14/2021). Advanced Science, 2021, 8, 2170088.	5.6	0
22	Rationalizing the enhancement of the thermoelectric properties of PEDOT:PSS by secondary doping. Applied Physics Letters, 2021, 119, .	1.5	10
23	Enhanced Nâ€Type Doping of a Naphthalene Diimide Based Copolymer by Modification of the Donor Unit. Advanced Electronic Materials, 2021, 7, 2100407.	2.6	10
24	A Lewis base and boundary passivation bifunctional additive for high performance lead-free layered-perovskite transistors and phototransistors. Materials Today Energy, 2021, 21, 100722.	2.5	15
25	High-Performance Layered Perovskite Transistors and Phototransistors by Binary Solvent Engineering. Chemistry of Materials, 2021, 33, 1174-1181.	3.2	29
26	Understanding, Optimizing, and Utilizing Nonideal Transistors Based on Organic or Organic Hybrid Semiconductors. Advanced Functional Materials, 2020, 30, 1903889.	7.8	49
27	Printable Semiconductors for Backplane TFTs of Flexible OLED Displays. Advanced Functional Materials, 2020, 30, 1904588.	7.8	136
28	Precise Extraction of Charge Carrier Mobility for Organic Transistors. Advanced Functional Materials, 2020, 30, 1904508.	7.8	34
29	Solution-processed organic single-crystalline semiconductors with a fence-like shape via ultrasound concussion. Journal of Materials Chemistry C, 2020, 8, 2589-2593.	2.7	2
30	Controlling the ambipolarity of thieno-benzo-isoindigo polymer-based transistors: the balance of face-on and edge-on populations. Journal of Materials Chemistry C, 2020, 8, 296-302.	2.7	23
31	Effect of molecular structure of benzo[1,2-b:4,5-bâ€²]dithiophene-based push-pull type donor polymers on performance panchromatic organic photodiodes. Organic Electronics, 2020, 78, 105580.	1.4	8
32	1D-CoSe₂ nanoarray: a designed structure for efficient hydrogen evolution and symmetric supercapacitor characteristics. Dalton Transactions, 2020, 49, 14191-14200.	1.6	42
33	Perovskite transistors clean up their act. Nature Electronics, 2020, 3, 662-663.	13.1	18
34	Enhanced efficiency and reduced hysteresis by TiO2 modification in high-performance perovskite solar cells. Organic Electronics, 2020, 86, 105922.	1.4	6
35	Solidâ€State Electrolyte Dielectrics Based on Exceptional Highâ€k P(VDFâ€TrFEâ€CTFE) Terpolymer for Highâ€Performance Fieldâ€Effect Transistors. Advanced Materials Interfaces, 2020, 7, 2000842.	1.9	10
36	High-capacitance polyurethane ionogels for low-voltage operated organic transistors and pressure sensors. Journal of Materials Chemistry C, 2020, 8, 17107-17113.	2.7	23

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37	Improved Electron Transport in Ambipolar Organic Field-Effect Transistors with PMMA/Polyurethane Blend Dielectrics. Macromolecular Research, 2020, 28, 1248-1252.	1.0	6
38	High-performance p-channel transistors with transparent Zn doped-CuI. Nature Communications, 2020, 11, 4309.	5.8	94
39	Highly Ambient-Stable Organic Thin-Film Transistors Fabricated Using Naphthalene Diimide and Thienyleneâ€“Vinyleneâ€“Thienylene-Based n-Type Polymers with Different Electron-Withdrawing Groups. Journal of Physical Chemistry C, 2020, 124, 20784-20793.	1.5	4
40	Molecule Charge Transfer Doping for pâ€Channel Solutionâ€Processed Copper Oxide Transistors. Advanced Functional Materials, 2020, 30, 2002625.	7.8	26
41	Flexible Bottom-Gated Organic Field-Effect Transistors Utilizing Stamped Polymer Layers from the Surface of Water. ACS Applied Materials & Interfaces, 2020, 12, 25092-25099.	4.0	14
42	Nonideal Transistors: Understanding, Optimizing, and Utilizing Nonideal Transistors Based on Organic or Organic Hybrid Semiconductors (Adv. Funct. Mater. 20/2020). Advanced Functional Materials, 2020, 30, 2070129.	7.8	2
43	Emerging Thinâ€Film Transistor Technologies and Applications. Advanced Functional Materials, 2020, 30, 2001678.	7.8	8
44	Printable Transistors: Printable Semiconductors for Backplane TFTs of Flexible OLED Displays (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.8	1
45	pâ€Doping Methods: Molecule Charge Transfer Doping for pâ€Channel Solutionâ€Processed Copper Oxide Transistors (Adv. Funct. Mater. 24/2020). Advanced Functional Materials, 2020, 30, 2070151.	7.8	0
46	Impact of Humidity on the Performance and Stability of Solution-Processed Copper Oxide Transistors. IEEE Electron Device Letters, 2020, , 1-1.	2.2	6
47	Facile synthesis of cobaltâ€“nickel sulfide thin film as a promising counter electrode for triiodide reduction in dye-sensitized solar cells. Energy, 2020, 202, 117730.	4.5	31
48	Understanding of copolymers containing pyridine and selenophene simultaneously and their polarity conversion in transistors. Materials Chemistry Frontiers, 2020, 4, 3567-3577.	3.2	6
49	Highâ€Performance and Reliable Leadâ€Free Layeredâ€Perovskite Transistors. Advanced Materials, 2020, 32, e2002717.	11.1	86
50	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2020, 11, 1466-1472.	2.1	19
51	Approaching isotropic transfer integrals in crystalline organic semiconductors. Physical Review Materials, 2020, 4, .	0.9	5
52	Charge and thermoelectric transport mechanism in donor-acceptor copolymer films. Physical Review Research, 2020, 2, .	1.3	4
53	Pâ€17: Lowâ€Temperature, Solutionâ€Processed Inorganic pâ€Channel Cuâ€based Thinâ€Film Transistors and Circuits. Digest of Technical Papers SID International Symposium, 2020, 51, 1372-1374.	0.1	0
54	Bisâ€Diketopyrrolopyrrole and Carbazoleâ€Based Terpolymer for High Performance Organic Fieldâ€Effect Transistors and Infraâ€Red Photodiodes. Macromolecular Chemistry and Physics, 2019, 220, 1900287.	1.1	19

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55	Polyethylenimine ethoxylated interlayer-mediated ZnO interfacial engineering for high-performance and low-temperature processed flexible perovskite solar cells: A simple and viable route for one-step processed CH3NH3PbI3. Journal of Power Sources, 2019, 438, 226956.	4.0	22
56	Polyol Reduction: A Low-Temperature Eco-Friendly Solution Process for p-Channel Copper Oxide-Based Transistors and Inverter Circuits. ACS Applied Materials & Interfaces, 2019, 11, 33157-33164.	4.0	37
57	Microscopic observation of efficient charge transport processes across domain boundaries in donor-acceptor-type conjugated polymers. Communications Physics, 2019, 2, .	2.0	24
58	Naphthalene flanked diketopyrrolopyrrole: A new DPP family member and its comparative optoelectronic properties with thiophene- and furan- flanked DPP counterparts. Organic Electronics, 2019, 74, 290-298.	1.4	9
59	Understanding Thickness-Dependent Electrical Characteristics in Conjugated Polymer Transistors With Top-Gate Staggered Structure. IEEE Transactions on Electron Devices, 2019, 66, 2723-2728.	1.6	10
60	22.1: Invited Paper: Solution processable pâ€type metal halide semiconductors for high performance transparent pâ€channel thinâ€film transistors. Digest of Technical Papers SID International Symposium, 2019, 50, 215-215.	0.1	0
61	Effect of Backbone Sequence of a Naphthalene Diimide-Based Copolymer on Performance in n-Type Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2019, 11, 35185-35192.	4.0	14
62	Exploring low-k dielectrics as structuring polymers for solid-state electrolyte-gated transistors. Organic Electronics, 2019, 75, 105434.	1.4	3
63	Controlling Ambipolar Charge Transport in Isoindigoâ€Based Conjugated Polymers by Altering Fluorine Substitution Position for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2019, 29, 1805994.	7.8	51
64	Redox-state modulated ORR activity of Cd-based Prussian blue analog frameworks transformed via anion exchange with controlled redox-state from CdCO3 cuboids. Journal of Electroanalytical Chemistry, 2019, 847, 113179.	1.9	9
65	Improving the Electrical Connection of n-Type Conjugated Polymers through Fluorine-Induced Robust Aggregation. Chemistry of Materials, 2019, 31, 4864-4872.	3.2	23
66	A General Approach to Probe Dynamic Operation and Carrier Mobility in Fieldâ€Effect Transistors with Nonuniform Accumulation. Advanced Functional Materials, 2019, 29, 1901700.	7.8	22
67	Synthesis and Characterization of Diketopyrrolopyrrole-Based Conjugated Polymers with Bithiophene and Biselenophene for Organic Thin Film Transistors. Journal of Nanoscience and Nanotechnology, 2019, 19, 6158-6163.	0.9	0
68	Polymer Electrolyte Blend Gate Dielectrics for High-Performance Ultrathin Organic Transistors: Toward Favorable Polymer Blend Miscibility and Reliability. ACS Applied Materials & Interfaces, 2019, 11, 17610-17616.	4.0	26
69	Perovskite and Conjugated Polymer Wrapped Semiconducting Carbon Nanotube Hybrid Films for High-Performance Transistors and Phototransistors. ACS Nano, 2019, 13, 3971-3981.	7.3	151
70	Spontaneous Doping at the Polymerâ€“Polymer Interface for High-Performance Organic Transistors. ACS Applied Materials & Interfaces, 2019, 11, 12709-12716.	4.0	24
71	Transparent Inorganic Copper Bromide (CuBr) p-Channel Transistors Synthesized From Solution at Room Temperature. IEEE Electron Device Letters, 2019, 40, 769-772.	2.2	22
72	:Hydrogen Doping Oxide Transistors: Analysis of Ultrahigh Apparent Mobility in Oxide Fieldâ€Effect Transistors (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970040.	5.6	6

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73	Kinetically Controlled Crystallization in Conjugated Polymer Films for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2019, 29, 1807786.	7.8	42
74	Analysis of Ultrahigh Apparent Mobility in Oxide Fieldâ€Effect Transistors. Advanced Science, 2019, 6, 1801189.	5.6	40
75	Progress of display performances: AR, VR, QLED, OLED, and TFT. Journal of Information Display, 2019, 20, 1-8.	2.1	92
76	Reliable Mobility Evaluation of Organic Field-Effect Transistors With Different Contact Metals. IEEE Electron Device Letters, 2019, 40, 605-608.	2.2	13
77	Control of Crystallite Orientation in Diketopyrrolopyrrole-Based Semiconducting Polymers via Tuning of Intermolecular Interactions. ACS Applied Materials & Interfaces, 2019, 11, 10751-10757.	4.0	20
78	Intrinsically distinct hole and electron transport in conjugated polymers controlled by intra and intermolecular interactions. Nature Communications, 2019, 10, 5226.	5.8	36
79	Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. Nanoscale, 2019, 11, 19586-19594.	2.8	26
80	Self-powered reduced-dimensionality perovskite photodiodes with controlled crystalline phase and improved stability. Nano Energy, 2019, 57, 761-770.	8.2	43
81	Au-Pd bimetallic nanoparticles embedded highly porous Fenugreek polysaccharide based micro networks for catalytic applications. International Journal of Biological Macromolecules, 2019, 126, 352-358.	3.6	35
82	Facile synthesis and optoelectronic exploration of silylthiophene substituted benzodithiophene polymer for organic field effect transistors. Journal of Organometallic Chemistry, 2019, 880, 317-321.	0.8	7
83	Solution-processed inorganic p-channel transistors: Recent advances and perspectives. Materials Science and Engineering Reports, 2019, 135, 85-100.	14.8	74
84	Lewis acid-base adduct-type organic hole transport material for high performance and air-stable perovskite solar cells. Nano Energy, 2019, 58, 284-292.	8.2	40
85	Lithium benzoate doped high performance n-type diketopyrrolopyrrole based organic thin-film transistors. Dyes and Pigments, 2019, 162, 243-248.	2.0	12
86	Acceptor Unit Effects for Ambipolar Organic Field-Effect Transistors Based on TIPS-Benzodithiophene Copolymers. Macromolecular Research, 2019, 27, 90-95.	1.0	10
87	Hole-induced polymerized interfacial film of polythiophene as co-sensitizer and back-electron injection barrier layer in dye-sensitized TiO2 nanotube array. Journal of Alloys and Compounds, 2019, 781, 589-594.	2.8	11
88	Development of High Performance Printed Organic Transistors by Controlling Charge Carrier Density. Journal of Surface Analysis (Online), 2019, 26, 112-113.	0.1	0
89	High performance printed p-type metal halide and oxide thin film transistors (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 0		
90	Room-temperature solution-synthesized p-type copper(I) iodide semiconductors for transparent thin film transistors and complementary electronics. Proceedings of the International Display Workshops, 2019, , 1631.	0.1	0

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91	Semiconducting carbon nanotube-based stretchable transistors. Proceedings of the International Display Workshops, 2019, , 1642.	0.1	0
92	Development of High Performance Semiconductor Inks for Printed Field-Effect Transistors For Flexible Display. Proceedings of the International Display Workshops, 2019, , 1592.	0.1	0
93	Development of High Performance Semiconductor Inks for Printed Field-Effect Transistors For Flexible Display. Proceedings of the International Display Workshops, 2019, , 1592.	0.1	0
94	Semiconducting carbon nanotube-based stretchable transistors. Proceedings of the International Display Workshops, 2019, , 1642.	0.1	0
95	Room-temperature solution-synthesized p-type copper(I) iodide semiconductors for transparent thin film transistors and complementary electronics. Proceedings of the International Display Workshops, 2019, , 1631.	0.1	0
96	Selective dispersion of high-purity semiconducting carbon nanotubes using indacenodithiophene-based conjugated polymer. Applied Physics Letters, 2018, 112, .	1.5	4
97	Well-defined alternative polymer semiconductor using large size regioregular building blocks as monomers: electrical and electrochemical properties. Journal of Materials Chemistry C, 2018, 6, 5662-5670.	2.7	9
98	Diffractive X-ray Waveguiding Reveals Orthogonal Crystalline Stratification in Conjugated Polymer Thin Films. Macromolecules, 2018, 51, 2979-2987.	2.2	29
99	Organic thin-film transistors with over 10â€‰cm2/Vs mobility through low-temperature solution coating. Journal of Information Display, 2018, 19, 71-80.	2.1	9
100	Effect of vacuum metalized gate electrode in top-gate solid-state electrolyte-gated organic transistors. Organic Electronics, 2018, 55, 63-68.	1.4	6
101	Improved Charge Injection of Metal Oxide Thinâ€Film Transistors by Stacked Electrodes of Indium Tin Oxide Nanoparticles and Silver Nanowires. Advanced Electronic Materials, 2018, 4, 1700440.	2.6	12
102	Heterostructured semiconductor single-walled carbon nanotube films for solution-processed high-performance field-effect transistors. Semiconductor Science and Technology, 2018, 33, 035017.	1.0	6
103	Organic field-effect transistors processed by an environmentally friendly non-halogenated solvent blend. Journal of Materials Chemistry C, 2018, 6, 661-667.	2.7	29
104	High performance p-type chlorinated-benzothiadiazole-based polymer electrolyte gated organic field-effect transistors. Organic Electronics, 2018, 54, 255-260.	1.4	5
105	A selection rule of solvent for highly aligned diketopyrrolopyrrole-based conjugated polymer film for high performance organic field-effect transistors. Organic Electronics, 2018, 55, 6-14.	1.4	33
106	Draw Spinning of Waferâ€Scale Oxide Fibers for Electronic Devices. Advanced Electronic Materials, 2018, 4, 1700644.	2.6	13
107	Design of New Isoindigo-Based Copolymer for Ambipolar Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 13774-13782.	4.0	20
108	Impact of Topology of Alkoxy Side Chain in Alkoxyphenylthiophene Subsituted Benzodithiophene Based 2D Conjugated Low Bandgap Polymers on Photophysical and Photovoltaic Properties. Macromolecular Research, 2018, 26, 500-505.	1.0	9

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109	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. Nano Energy, 2018, 48, 575-581.	8.2	85
110	Interfacial Engineering of Nanoporous Architectures in Ga2O3 Film toward Self-Aligned Tubular Nanostructure with an Enhanced Photocatalytic Activity on Water Splitting. Langmuir, 2018, 34, 4575-4583.	1.6	11
111	Low-voltage operated solid-state electrolyte-gated ambipolar organic field-effect transistors. Organic Electronics, 2018, 52, 257-263.	1.4	10
112	Study of PEDOT and analogous polymer film as back-electron injection barrier and electrical charge storing materials. Materials Letters, 2018, 211, 1-4.	1.3	4
113	Electrospun p-Type Nickel Oxide Semiconducting Nanowires for Low-Voltage Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 25841-25849.	4.0	47
114	Selenophene based benzodithiophene polymers as potential candidates for optoelectronic applications. Dyes and Pigments, 2018, 149, 639-643.	2.0	10
115	A Highâ€k Fluorinated P(VDFâ€TrFE)â€gâ€PMMA Gate Dielectric for Highâ€Performance Flexible Fieldâ€Effect Transistors. Advanced Functional Materials, 2018, 28, 1704780.	7.8	55
116	An enhanced electrochemical energy conversion behavior of thermally treated thin film of 1-dimensional CoTe synthesized from aqueous solution at room temperature. Electrochimica Acta, 2018, 260, 365-371.	2.6	29
117	Effect of pre-aggregation in solution state on the performance of organic field-effect transistors with indacenodithiophene-co-benzothiadiazole. Organic Electronics, 2018, 53, 111-116.	1.4	9
118	Uniaxial Alignment of Conjugated Polymer Films for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2018, 30, e1705463.	11.1	147
119	Doping: A Key Enabler for Organic Transistors. Advanced Materials, 2018, 30, e1801830.	11.1	141
120	Baking soda: an ultra-cheap and air stable electron injection layer for organic electronic devices. Journal of Materials Chemistry C, 2018, 6, 12871-12878.	2.7	8
121	Oxygen reduction reaction on nickel-based Prussian blue analog frameworks synthesized via electrochemical anodization route. Journal of Electroanalytical Chemistry, 2018, 828, 80-85.	1.9	17
122	Efficiency Exceeding 20% in Perovskite Solar Cells with Sideâ€Chain Liquid Crystalline Polymerâ€“Doped Perovskite Absorbers. Advanced Energy Materials, 2018, 8, 1801637.	10.2	48
123	Recent Progress on Highâ€Capacitance Polymer Gate Dielectrics for Flexible Lowâ€Voltage Transistors. Advanced Functional Materials, 2018, 28, 1802201.	7.8	139
124	Essential Effects on the Mobility Extraction Reliability for Organic Transistors. Advanced Functional Materials, 2018, 28, 1803907.	7.8	54
125	Donor unit effect on DPP based organic field-effect transistor performance. Dyes and Pigments, 2018, 158, 306-311.	2.0	12
126	Roomâ€Temperature Solutionâ€Synthesized pâ€Type Copper(I) Iodide Semiconductors for Transparent Thinâ€Film Transistors and Complementary Electronics. Advanced Materials, 2018, 30, e1802379.	11.1	125

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127	Isoindigo benzodifurandione based conjugated polymers for high performance organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 7822-7829.	2.7	14
128	Benzyl viologen as an n-type dopant for organic semiconductors. Organic Electronics, 2018, 62, 572-580.	1.4	17
129	Effect of donor units in methylated DPP-based polymers on performance of organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 10464-10471.	2.7	9
130	Impact of Hydroxyl Groups Boosting Heterogeneous Nucleation on Perovskite Grains and Photovoltaic Performances. Journal of Physical Chemistry C, 2018, 122, 16630-16638.	1.5	33
131	Sequential Fluorination on Napthaleneamide-Based Conjugated Polymers and Their Impact on Charge Transport Properties. Macromolecules, 2018, 51, 5530-5536.	2.2	20
132	Electronic Devices Based on Oxide Thin Films Fabricated by Fiber-to-Film Process. ACS Applied Materials & Interfaces, 2018, 10, 18057-18065.	4.0	14
133	Difluorobenzothiadiazole and Selenophene-Based Conjugated Polymer Demonstrating an Effective Hole Mobility Exceeding 5 cm² V^{â€“1} s^{â€“1} with Solid-State Electrolyte Dielectric. ACS Applied Materials & Interfaces, 2018, 10, 32492-32500.	4.0	22
134	Transparent Electronics: Roomâ€Temperature Solutionâ€Synthesized pâ€Type Copper(I) Iodide Semiconductors for Transparent Thinâ€Film Transistors and Complementary Electronics (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	11.1	10
135	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. New Journal of Chemistry, 2018, 42, 12374-12385.	1.4	29
136	Highly Ï€-extended small molecules with bis(alkylthio)methylene side chains for organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 7604-7611.	2.7	14
137	Solution Processed Metal Oxide Highâ€Îº Dielectrics for Emerging Transistors and Circuits. Advanced Materials, 2018, 30, e1706364.	11.1	158
138	Flexible and Printed PPG Sensors for Estimation of Drowsiness. IEEE Transactions on Electron Devices, 2018, 65, 2997-3004.	1.6	33
139	Water-Gated n-Type Organic Field-Effect Transistors for Complementary Integrated Circuits Operating in an Aqueous Environment. ACS Omega, 2017, 2, 1-10.	1.6	35
140	Schottky Barrier in Organic Transistors. IEEE Transactions on Electron Devices, 2017, 64, 1932-1943.	1.6	42
141	Diketopyrrolopyrrole-based conjugated polymer for printed organic field-effect transistors and gas sensors. Dyes and Pigments, 2017, 140, 244-249.	2.0	33
142	Flexible Organic Amplifiers. IEEE Transactions on Electron Devices, 2017, 64, 1944-1954.	1.6	8
143	A facile way to pattern PEDOT:PSS film as an electrode for organic devices. Organic Electronics, 2017, 44, 99-105.	1.4	28
144	Ultrahigh Mobility in Solutionâ€Processed Solidâ€State Electrolyteâ€Gated Transistors. Advanced Materials, 2017, 29, 1605685.	11.1	95

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145	Highly Sensitive Flexible NH₃ Sensors Based on Printed Organic Transistors with Fluorinated Conjugated Polymers. ACS Applied Materials & Interfaces, 2017, 9, 7322-7330.	4.0	59
146	Improved ambipolar charge injection in organic field-effect transistors with low cost metal electrode using polymer sorted semiconducting carbon nanotubes. Organic Electronics, 2017, 46, 28-34.	1.4	15
147	Highly aligned conjugated polymer films prepared by rotation coating for high-performance organic field-effect transistors. Applied Physics Letters, 2017, 110, .	1.5	16
148	Mechanical Stability of Organic Field-Effect Transistors on Ultra-Thin Polymer Substrate. Journal of Nanoscience and Nanotechnology, 2017, 17, 5679-5682.	0.9	0
149	Anodically Grown Binder-Free Nickel Hexacyanoferrate Film: Toward Efficient Water Reduction and Hexacyanoferrate Film Based Full Device for Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 18015-18021.	4.0	56
150	Controlling organization of conjugated polymer films from binary solvent mixtures for high performance organic field-effect transistors. Organic Electronics, 2017, 41, 198-204.	1.4	9
151	Green synthesis of palladium nanoparticles using fenugreek tea and their catalytic applications in organic reactions. Materials Letters, 2017, 205, 138-141.	1.3	40
152	Chlorinated 2,1,3-Benzothiadiazole-Based Polymers for Organic Field-Effect Transistors. Macromolecules, 2017, 50, 4649-4657.	2.2	33
153	High Performance Solution Processed Organic Field Effect Transistors with Novel Diketopyrrolopyrrole-Containing Small Molecules. Scientific Reports, 2017, 7, 164.	1.6	51
154	Effect of pre-aggregation in conjugated polymer solution on performance of diketopyrrolopyrrole-based organic field-effect transistors. Dyes and Pigments, 2017, 145, 270-276.	2.0	10
155	High performance and stable naphthalene diimide based n -channel organic field-effect transistors by polyethylenimine doping. Dyes and Pigments, 2017, 142, 323-329.	2.0	18
156	Parylene based bilayer flexible gate dielectric layer for top-gated organic field-effect transistors. Organic Electronics, 2017, 46, 14-21.	1.4	23
157	A unified understanding of charge transport in organic semiconductors: the importance of attenuated delocalization for the carriers. Materials Horizons, 2017, 4, 608-618.	6.4	146
158	Novel Solid-State Solar Cell Based on Hole-Conducting MOF-Sensitizer Demonstrating Power Conversion Efficiency of 2.1%. ACS Applied Materials & Interfaces, 2017, 9, 12930-12935.	4.0	51
159	Multifunctional Organicâ€Semiconductor Interfacial Layers for Solutionâ€Processed Oxideâ€Semiconductor Thinâ€Film Transistor. Advanced Materials, 2017, 29, 1607055.	11.1	47
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