

Young-Yong Noh

List of Publications by Year in descending order

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373
papers

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citations

13854

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citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Light Detectors: Photodiodes and Phototransistors. <i>Advanced Materials</i> , 2013, 25, 4267-4295.	11.1	1,088
2	Flexible metal-oxide devices made by room-temperature photochemical activation of sol-gel films. <i>Nature</i> , 2012, 489, 128-132.	13.7	975
3	A Thienoisindigo-Naphthalene Polymer with Ultrahigh Mobility of $14.4 \text{ cm}^2/\text{Vs}$ That Substantially Exceeds Benchmark Values for Amorphous Silicon Semiconductors. <i>Journal of the American Chemical Society</i> , 2014, 136, 9477-9483.	6.6	553
4	Downscaling of self-aligned, all-printed polymer thin-film transistors. <i>Nature Nanotechnology</i> , 2007, 2, 784-789.	15.6	515
5	Polymer and Organic Nonvolatile Memory Devices. <i>Chemistry of Materials</i> , 2011, 23, 341-358.	3.2	506
6	Toward Printed Integrated Circuits based on Unipolar or Ambipolar Polymer Semiconductors. <i>Advanced Materials</i> , 2013, 25, 4210-4244.	11.1	473
7	Contact engineering in organic field-effect transistors. <i>Materials Today</i> , 2015, 18, 79-96.	8.3	407
8	Organic Non-Volatile Memory Based on Pentacene Field-Effect Transistors Using a Polymeric Gate Electret. <i>Advanced Materials</i> , 2006, 18, 3179-3183.	11.1	294
9	Large-scale organic nanowire lithography and electronics. <i>Nature Communications</i> , 2013, 4, 1773.	5.8	262
10	Controllable Shifts in Threshold Voltage of Top-Gate Polymer Field-Effect Transistors for Applications in Organic Nano Floating Gate Memory. <i>Advanced Functional Materials</i> , 2010, 20, 224-230.	7.8	258
11	Polarity Effects of Polymer Gate Electrets on Non-Volatile Organic Field-Effect Transistor Memory. <i>Advanced Functional Materials</i> , 2008, 18, 3678-3685.	7.8	256
12	Bithiophene-Imide-Based Polymeric Semiconductors for Field-Effect Transistors: Synthesis, Structure-Property Correlations, Charge Carrier Polarity, and Device Stability. <i>Journal of the American Chemical Society</i> , 2011, 133, 1405-1418.	6.6	231
13	Synthesis of ultrathin polymer insulating layers by initiated chemical vapour deposition for low-power soft electronics. <i>Nature Materials</i> , 2015, 14, 628-635.	13.3	229
14	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.	11.1	224
15	Combining Electron-Neutral Building Blocks with Intramolecular Conformational Locks Affords Stable, High-Mobility P- and N-Channel Polymer Semiconductors. <i>Journal of the American Chemical Society</i> , 2012, 134, 10966-10973.	6.6	220
16	Energy transfer and device performance in phosphorescent dye doped polymer light emitting diodes. <i>Journal of Chemical Physics</i> , 2003, 118, 2853.	1.2	218
17	High-Field-Effect Mobility of Low-Crystallinity Conjugated Polymers with Localized Aggregates. <i>Journal of the American Chemical Society</i> , 2016, 138, 8096-8103.	6.6	217
18	Simple Bar-Coating Process for Large-Area, High-Performance Organic Field-Effect Transistors and Ambipolar Complementary Integrated Circuits. <i>Advanced Materials</i> , 2013, 25, 4302-4308.	11.1	210

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19	Controlling Electron and Hole Charge Injection in Ambipolar Organic Field-Effect Transistors by Self-Assembled Monolayers. <i>Advanced Functional Materials</i> , 2009, 19, 2407-2415.	7.8	209
20	Printed, Flexible, Organic Nano-Floating-Gate Memory: Effects of Metal Nanoparticles and Blocking Dielectrics on Memory Characteristics. <i>Advanced Functional Materials</i> , 2013, 23, 3503-3512.	7.8	200
21	Electrodeposited Pt for cost-efficient and flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2006, 51, 3814-3819.	2.6	189
22	Highly sensitive thin-film organic phototransistors: Effect of wavelength of light source on device performance. <i>Journal of Applied Physics</i> , 2005, 98, 074505.	1.1	184
23	High-Performance Top-Gated Organic Field-Effect Transistor Memory using Electrets for Monolithic Printed Flexible NAND Flash Memory. <i>Advanced Functional Materials</i> , 2012, 22, 2915-2926.	7.8	184
24	Device Physics of Contact Issues for the Overestimation and Underestimation of Carrier Mobility in Field-Effect Transistors. <i>Physical Review Applied</i> , 2017, 8, .	1.5	183
25	Precisely Controlled Ultrathin Conjugated Polymer Films for Large Area Transparent Transistors and Highly Sensitive Chemical Sensors. <i>Advanced Materials</i> , 2016, 28, 2752-2759.	11.1	179
26	Remarkable Enhancement of Hole Transport in Top-Gated N-Type Polymer Field-Effect Transistors by a High-κ Dielectric for Ambipolar Electronic Circuits. <i>Advanced Materials</i> , 2012, 24, 5433-5439.	11.1	176
27	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.	7.8	166
28	A Highly Planar Fluorinated Benzothiadiazole-Based Conjugated Polymer for High-Performance Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2015, 27, 3045-3052.	11.1	159
29	Solution Processed Metal Oxide High- κ Dielectrics for Emerging Transistors and Circuits. <i>Advanced Materials</i> , 2018, 30, e1706364.	11.1	158
30	High-Performance Organic Field-Effect Transistors with Directionally Aligned Conjugated Polymer Film Deposited from Pre-Aggregated Solution. <i>Chemistry of Materials</i> , 2015, 27, 8345-8353.	3.2	156
31	High-photosensitivity p-channel organic phototransistors based on a biphenyl end-capped fused bithiophene oligomer. <i>Applied Physics Letters</i> , 2005, 86, 043501.	1.5	153
32	Perovskite and Conjugated Polymer Wrapped Semiconducting Carbon Nanotube Hybrid Films for High-Performance Transistors and Phototransistors. <i>ACS Nano</i> , 2019, 13, 3971-3981.	7.3	151
33	Charge Injection Engineering of Ambipolar Field-Effect Transistors for High-Performance Organic Complementary Circuits. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3205-3214.	4.0	150
34	Uniaxial Alignment of Conjugated Polymer Films for High-Performance Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, e1705463.	11.1	147
35	A unified understanding of charge transport in organic semiconductors: the importance of attenuated delocalization for the carriers. <i>Materials Horizons</i> , 2017, 4, 608-618.	6.4	146
36	Doping: A Key Enabler for Organic Transistors. <i>Advanced Materials</i> , 2018, 30, e1801830.	11.1	141

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37	Recent Progress on High-Capacitance Polymer Gate Dielectrics for Flexible Low-Voltage Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1802201.	7.8	139
38	Downscaling of Organic Field-Effect Transistors with a Polyelectrolyte Gate Insulator. <i>Advanced Materials</i> , 2008, 20, 4708-4713.	11.1	138
39	Printable Semiconductors for Backplane TFTs of Flexible OLED Displays. <i>Advanced Functional Materials</i> , 2020, 30, 1904588.	7.8	136
40	Air Stable Cross-Linked Cytop Ultrathin Gate Dielectric for High Yield Low-Voltage Top-Gate Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2010, 22, 1559-1566.	3.2	133
41	Effect of Molecular Orientation of Epitaxially Grown Platinum(II) Octaethyl Porphyrin Films on the Performance of Field-Effect Transistors. <i>Advanced Materials</i> , 2003, 15, 699-702.	11.1	128
42	Room-Temperature Solution-Synthesized p-Type Copper(I) Iodide Semiconductors for Transparent Thin-Film Transistors and Complementary Electronics. <i>Advanced Materials</i> , 2018, 30, e1802379.	11.1	125
43	Ultra-thin polymer gate dielectrics for top-gate polymer field-effect transistors. <i>Organic Electronics</i> , 2009, 10, 174-180.	1.4	123
44	High-performance inorganic metal halide perovskite transistors. <i>Nature Electronics</i> , 2022, 5, 78-83.	13.1	121
45	A New Poly(thienylenevinylene) Derivative with High Mobility and Oxidative Stability for Organic Thin-Film Transistors and Solar Cells. <i>Advanced Materials</i> , 2009, 21, 2808-2814.	11.1	118
46	Large-Scale Precise Printing of Ultrathin Sol-Gel Oxide Dielectrics for Directly Patterned Solution-Processed Metal Oxide Transistor Arrays. <i>Advanced Materials</i> , 2015, 27, 5043-5048.	11.1	117
47	Control of Ambipolar and Unipolar Transport in Organic Transistors by Selective Inkjet-Printed Chemical Doping for High Performance Complementary Circuits. <i>Advanced Functional Materials</i> , 2014, 24, 6252-6261.	7.8	116
48	Polaron Localization at Interfaces in High-Mobility Microcrystalline Conjugated Polymers. <i>Advanced Materials</i> , 2009, 21, 3759-3763.	11.1	105
49	High speeds complementary integrated circuits fabricated with all-printed polymeric semiconductors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 62-67.	2.4	102
50	Development of high-performance printed organic field-effect transistors and integrated circuits. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26553-26574.	1.3	100
51	Ultrahigh Mobility in Solution-Processed Solid-State Electrolyte-Gated Transistors. <i>Advanced Materials</i> , 2017, 29, 1605685.	11.1	95
52	High-performance p-channel transistors with transparent Zn doped-CuI. <i>Nature Communications</i> , 2020, 11, 4309.	5.8	94
53	Progress of display performances: AR, VR, QLED, OLED, and TFT. <i>Journal of Information Display</i> , 2019, 20, 1-8.	2.1	92
54	Synthesis and Studies on 2-Hexylthieno[3,2-b]thiophene End-Capped Oligomers for OTFTs. <i>Chemistry of Materials</i> , 2007, 19, 3561-3567.	3.2	91

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55	A conjugated polyazine containing diketopyrrolopyrrole for ambipolar organic thin film transistors. <i>Chemical Communications</i> , 2012, 48, 8413.	2.2	90
56	Large Enhancement of Carrier Transport in Solution-Processed Field-Effect Transistors by Fluorinated Dielectric Engineering. <i>Advanced Materials</i> , 2016, 28, 518-526.	11.1	87
57	High-Performance and Reliable Lead-Free Layered Perovskite Transistors. <i>Advanced Materials</i> , 2020, 32, e2002717.	11.1	86
58	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. <i>Nano Energy</i> , 2018, 48, 575-581.	8.2	85
59	A Balanced Face-On to Edge-On Texture Ratio in Naphthalene Diimide-Based Polymers with Hybrid Siloxane Chains Directs Highly Efficient Electron Transport. <i>Macromolecules</i> , 2015, 48, 5179-5187.	2.2	82
60	Controlled Charge Transport by Polymer Blend Dielectrics in Top-Gate Organic Field-Effect Transistors for Low-Voltage-Operating Complementary Circuits. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6176-6184.	4.0	77
61	High-Mobility Naphthalene Diimide and Selenophene-Vinylene-Selenophene-Based Conjugated Polymer: Channel Organic Field-Effect Transistors and Structure-Property Relationship. <i>Advanced Functional Materials</i> , 2016, 26, 4984-4997.	7.8	75
62	Quinoidal Molecules as a New Class of Ambipolar Semiconductor Originating from Amphoteric Redox Behavior. <i>Advanced Functional Materials</i> , 2015, 25, 1146-1156.	7.8	74
63	Solution-processed inorganic p-channel transistors: Recent advances and perspectives. <i>Materials Science and Engineering Reports</i> , 2019, 135, 85-100.	14.8	74
64	Engineering Copper Iodide (CuI) for Multifunctional p-Type Transparent Semiconductors and Conductors. <i>Advanced Science</i> , 2021, 8, 2100546.	5.6	74
65	Synthesis of a New Cross-Linkable Perfluorocyclobutane-Based Hole-Transport Material. <i>Organic Letters</i> , 2006, 8, 4703-4706.	2.4	73
66	Highly Soluble Poly(thienylenevinylene) Derivatives with Charge-Carrier Mobility Exceeding 1 cm ² V ⁻¹ s ⁻¹ . <i>Chemistry of Materials</i> , 2011, 23, 4663-4665.	3.2	72
67	Surface plasmon enhanced photoluminescence of conjugated polymers. <i>Applied Physics Letters</i> , 2007, 90, 161107.	1.5	70
68	Exploring the Charge Transport in Conjugated Polymers. <i>Advanced Materials</i> , 2017, 29, 1702729.	11.1	70
69	Ink-jet printed ZnO nanowire field effect transistors. <i>Applied Physics Letters</i> , 2007, 91, 043109.	1.5	68
70	Fully-printed, all-polymer, bendable and highly transparent complementary logic circuits. <i>Organic Electronics</i> , 2015, 20, 132-141.	1.4	68
71	Purification of PEDOT:PSS by Ultrafiltration for Highly Conductive Transparent Electrode of All-Printed Organic Devices. <i>Advanced Materials</i> , 2016, 28, 10149-10154.	11.1	66
72	Effect of light irradiation on the characteristics of organic field-effect transistors. <i>Journal of Applied Physics</i> , 2006, 100, 094501.	1.1	65

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73	Improved performance uniformity of inkjet printed n-channel organic field-effect transistors and complementary inverters. <i>Organic Electronics</i> , 2011, 12, 634-640.	1.4	65
74	Synthesis, Electronic Structure, and Charge Transport Characteristics of Naphthalenediimide-Based Co-Polymers with Different Oligothiophene Donor Units. <i>Advanced Functional Materials</i> , 2014, 24, 1151-1162.	7.8	65
75	Organic phototransistor based on pentacene as an efficient red light sensor. <i>Solid-State Electronics</i> , 2007, 51, 1052-1055.	0.8	64
76	Stable charge storing in two-dimensional MoS ₂ nanoflake floating gates for multilevel organic flash memory. <i>Nanoscale</i> , 2014, 6, 12315-12323.	2.8	64
77	Low-voltage, high speed inkjet-printed flexible complementary polymer electronic circuits. <i>Organic Electronics</i> , 2013, 14, 1407-1418.	1.4	63
78	Modulation of Majority Charge Carrier from Hole to Electron by Incorporation of Cyano Groups in Diketopyrrolopyrrole-Based Polymers. <i>Macromolecules</i> , 2017, 50, 7550-7558.	2.2	62
79	Production of graphene by exfoliation of graphite in a volatile organic solvent. <i>Nanotechnology</i> , 2011, 22, 365601.	1.3	61
80	High Performance and Stable N-Channel Organic Field-Effect Transistors by Patterned Solvent-Vapor Annealing. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10745-10752.	4.0	60
81	Microchannel Wetting for Controllable Patterning and Alignment of Silver Nanowire with High Resolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21433-21441.	4.0	60
82	Planar-Processed Polymer Transistors. <i>Advanced Materials</i> , 2016, 28, 8531-8537.	11.1	60
83	Recent progress in the development of backplane thin film transistors for information displays. <i>Journal of Information Display</i> , 2021, 22, 1-11.	2.1	60
84	Highly Sensitive Flexible NH ₃ Sensors Based on Printed Organic Transistors with Fluorinated Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7322-7330.	4.0	59
85	Anodically Grown Binder-Free Nickel Hexacyanoferrate Film: Toward Efficient Water Reduction and Hexacyanoferrate Film Based Full Device for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18015-18021.	4.0	56
86	Optimal Ambipolar Charge Transport of Thienylenevinylene-Based Polymer Semiconductors by Changes in Conformation for High-Performance Organic Thin Film Transistors and Inverters. <i>Chemistry of Materials</i> , 2013, 25, 1572-1583.	3.2	55
87	A High-k Fluorinated P(VDF-TrFE)-PMMA Gate Dielectric for High-Performance Flexible Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1704780.	7.8	55
88	Effect of Doping Concentration on Microstructure of Conjugated Polymers and Characteristics in N-type Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2015, 25, 758-767.	7.8	54
89	A Timely Synthetic Tailoring of Biaxially Extended Thienylenevinylene-Like Polymers for Systematic Investigation on Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2015, 25, 586-596.	7.8	54
90	Essential Effects on the Mobility Extraction Reliability for Organic Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1803907.	7.8	54

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91	Optical and thermal properties of large-area OLED lightings with metallic grids. <i>Organic Electronics</i> , 2012, 13, 184-194.	1.4	53
92	Systematic Study of Widely Applicable N-Doping Strategy for High-Performance Solution-Processed Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 7886-7894.	7.8	53
93	Facile Route To Control the Ambipolar Transport in Semiconducting Polymers. <i>Chemistry of Materials</i> , 2016, 28, 2287-2294.	3.2	53
94	Organic Field Effect Transistors Based on Biphenyl, Fluorene End-Capped Fused Bithiophene Oligomers. <i>Chemistry of Materials</i> , 2005, 17, 3861-3870.	3.2	51
95	High mobility top-gated poly(3-hexylthiophene) field-effect transistors with high work-function Pt electrodes. <i>Thin Solid Films</i> , 2010, 518, 4024-4029.	0.8	51
96	High Performance Solution Processed Organic Field Effect Transistors with Novel Diketopyrrolopyrrole-Containing Small Molecules. <i>Scientific Reports</i> , 2017, 7, 164.	1.6	51
97	Novel Solid-State Solar Cell Based on Hole-Conducting MOF-Sensitizer Demonstrating Power Conversion Efficiency of 2.1%. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12930-12935.	4.0	51
98	Controlling Ambipolar Charge Transport in Isoindigo-Based Conjugated Polymers by Altering Fluorine Substitution Position for High-Performance Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1805994.	7.8	51
99	High-performance hysteresis-free perovskite transistors through anion engineering. <i>Nature Communications</i> , 2022, 13, 1741.	5.8	51
100	Synergistic High Charge-Storage Capacity for Multi-level Flexible Organic Flash Memory. <i>Scientific Reports</i> , 2015, 5, 12299.	1.6	50
101	Understanding, Optimizing, and Utilizing Nonideal Transistors Based on Organic or Organic Hybrid Semiconductors. <i>Advanced Functional Materials</i> , 2020, 30, 1903889.	7.8	49
102	Efficiency Exceeding 20% in Perovskite Solar Cells with Side-Chain Liquid Crystalline Polymer-Doped Perovskite Absorbers. <i>Advanced Energy Materials</i> , 2018, 8, 1801637.	10.2	48
103	Effect of rubbed polyimide layer on the field-effect mobility in pentacene thin-film transistors. <i>Applied Physics Letters</i> , 2008, 92, 052107.	1.5	47
104	Facile Routes To Improve Performance of Solution-Processed Amorphous Metal Oxide Thin Film Transistors by Water Vapor Annealing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13289-13294.	4.0	47
105	Multifunctional Organic-Semiconductor Interfacial Layers for Solution-Processed Oxide-Semiconductor Thin-Film Transistor. <i>Advanced Materials</i> , 2017, 29, 1607055.	11.1	47
106	Electrospun p-Type Nickel Oxide Semiconducting Nanowires for Low-Voltage Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25841-25849.	4.0	47
107	Effects of gate dielectrics and their solvents on characteristics of solution-processed N-channel polymer field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 21138.	6.7	46
108	Organic nano-floating-gate transistor memory with metal nanoparticles. <i>Nano Convergence</i> , 2016, 3, 10.	6.3	46

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109	Organic thin film transistor with conjugated polymers for highly sensitive gas sensors. <i>Macromolecular Research</i> , 2017, 25, 489-495.	1.0	46
110	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.	15.6	45
111	Flexible Complementary Logic Gates Using Inkjet-Printed Polymer Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2013, 34, 126-128.	2.2	44
112	High-performance diketopyrrolopyrrole-based organic field-effect transistors for flexible gas sensors. <i>Organic Electronics</i> , 2015, 23, 76-81.	1.4	44
113	Direct and quantitative understanding of the non-Ohmic contact resistance in organic and oxide thin-film transistors. <i>Organic Electronics</i> , 2015, 27, 253-258.	1.4	43
114	Self-powered reduced-dimensionality perovskite photodiodes with controlled crystalline phase and improved stability. <i>Nano Energy</i> , 2019, 57, 761-770.	8.2	43
115	Schottky Barrier in Organic Transistors. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1932-1943.	1.6	42
116	Kinetically Controlled Crystallization in Conjugated Polymer Films for High-Performance Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1807786.	7.8	42
117	1D-CoSe ₂ nanoarray: a designed structure for efficient hydrogen evolution and symmetric supercapacitor characteristics. <i>Dalton Transactions</i> , 2020, 49, 14191-14200.	1.6	42
118	Spray-printed organic field-effect transistors and complementary inverters. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1500.	2.7	40
119	Green synthesis of palladium nanoparticles using fenugreek tea and their catalytic applications in organic reactions. <i>Materials Letters</i> , 2017, 205, 138-141.	1.3	40
120	Ambipolar Small-Molecule:Polymer Blend Semiconductors for Solution-Processable Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2686-2692.	4.0	40
121	Analysis of Ultrahigh Apparent Mobility in Oxide Field-Effect Transistors. <i>Advanced Science</i> , 2019, 6, 1801189.	5.6	40
122	Lewis acid-base adduct-type organic hole transport material for high performance and air-stable perovskite solar cells. <i>Nano Energy</i> , 2019, 58, 284-292.	8.2	40
123	Organic Nano-Floating-Gate Memory with Polymer:[6,6]-Phenyl-C61Butyric Acid Methyl Ester Composite Films. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 05EB01.	0.8	39
124	Organic field-effect transistors by a wet-transferring method. <i>Applied Physics Letters</i> , 2003, 83, 1243-1245.	1.5	38
125	Printed organic thin-film transistor-based integrated circuits. <i>Semiconductor Science and Technology</i> , 2015, 30, 064003.	1.0	38
126	Solution-Processed Barium Salts as Charge Injection Layers for High Performance N-Channel Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9614-9621.	4.0	37

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127	Polyol Reduction: A Low-Temperature Eco-Friendly Solution Process for p-Channel Copper Oxide-Based Transistors and Inverter Circuits. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33157-33164.	4.0	37
128	Intrinsically distinct hole and electron transport in conjugated polymers controlled by intra and intermolecular interactions. <i>Nature Communications</i> , 2019, 10, 5226.	5.8	36
129	Effect of Polymer Gate Dielectrics on Charge Transport in Carbon Nanotube Network Transistors: Low- <i>k</i> Insulator for Favorable Active Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32421-32431.	4.0	35
130	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.	1.6	35
131	Au-Pd bimetallic nanoparticles embedded highly porous Fenugreek polysaccharide based micro networks for catalytic applications. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 352-358.	3.6	35
132	Precise Extraction of Charge Carrier Mobility for Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 1904508.	7.8	34
133	Efficient Charge Injection in p-Type Polymer Field-Effect Transistors with Low-Cost Molybdenum Electrodes through V2O5 Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5804-5810.	4.0	33
134	Diketopyrrolopyrrole-based conjugated polymer for printed organic field-effect transistors and gas sensors. <i>Dyes and Pigments</i> , 2017, 140, 244-249.	2.0	33
135	Chlorinated 2,1,3-Benzothiadiazole-Based Polymers for Organic Field-Effect Transistors. <i>Macromolecules</i> , 2017, 50, 4649-4657.	2.2	33
136	A selection rule of solvent for highly aligned diketopyrrolopyrrole-based conjugated polymer film for high performance organic field-effect transistors. <i>Organic Electronics</i> , 2018, 55, 6-14.	1.4	33
137	Impact of Hydroxyl Groups Boosting Heterogeneous Nucleation on Perovskite Grains and Photovoltaic Performances. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16630-16638.	1.5	33
138	Flexible and Printed PPG Sensors for Estimation of Drowsiness. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2997-3004.	1.6	33
139	Low-voltage-operated top-gate polymer thin-film transistors with high-capacitance P(VDF-TrFE)/PVDF-blended dielectrics. <i>Current Applied Physics</i> , 2011, 11, S213-S218.	1.1	32
140	Electron injection enhancement by a Cs-salt interlayer in ambipolar organic field-effect transistors and complementary circuits. <i>Journal of Materials Chemistry</i> , 2012, 22, 16979.	6.7	32
141	Metal evaporation dependent charge injection in organic transistors. <i>Organic Electronics</i> , 2014, 15, 1738-1744.	1.4	32
142	Gradual Controlling the Work Function of Metal Electrodes by Solution-Processed Mixed Interlayers for Ambipolar Polymer Field-Effect Transistors and Circuits. <i>Advanced Functional Materials</i> , 2014, 24, 6484-6491.	7.8	32
143	Highly stable printed polymer field-effect transistors and inverters via polyselenophene conjugated polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 12774.	6.7	31
144	Facile synthesis of cobalt-nickel sulfide thin film as a promising counter electrode for triiodide reduction in dye-sensitized solar cells. <i>Energy</i> , 2020, 202, 117730.	4.5	31

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145	Top-gate ferroelectric thin-film-transistors with P(VDF-TrFE) copolymer. <i>Current Applied Physics</i> , 2010, 10, e58-e61.	1.1	30
146	Low-voltage-operated top-gate polymer thin-film transistors with high capacitance poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 108, .	1.1	30
147	Flexible OLEDs and organic electronics. <i>Semiconductor Science and Technology</i> , 2011, 26, 030301.	1.0	30
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