Se Hyun Kim

List of Publications by Year
in descending order

178 papers	6,146 citations	71102 41 h-index	98798 67 g-index
183 all docs	183 docs citations	183 times ranked	6473 citing authors

#	Article	IF	Citations
1	Electrolyteâ€Gated Transistors for Organic and Printed Electronics. Advanced Materials, 2013, 25, 1822-1846.	21.0	797
2	Al₂O₃/TiO₂ Nanolaminate Thin Film Encapsulation for Organic Thin Film Transistors via Plasma-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2014, 6, 6731-6738.	8.0	180
3	Printed, subâ€2V ZnO Electrolyte Gated Transistors and Inverters on Plastic. Advanced Materials, 2013, 25, 3413-3418.	21.0	140
4	Bending-stress-driven phase transitions in pentacene thin films for flexible organic field-effect transistors. Applied Physics Letters, 2008, 92, .	3.3	124
5	Low-voltage pentacene field-effect transistors with ultrathin polymer gate dielectrics. Applied Physics Letters, 2006, 88, 173507.	3.3	123
6	Performance and Stability of Aerosol-Jet-Printed Electrolyte-Gated Transistors Based on Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2013, 5, 6580-6585.	8.0	116
7	Multiwall Carbon Nanotube and Poly(3,4-ethylenedioxythiophene): Polystyrene Sulfonate (PEDOT:PSS) Composite Films for Transistor and Inverter Devices. ACS Applied Materials & Interfaces, 2011, 3, 43-49.	8.0	105
8	Physicochemically Stable Polymerâ€Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications. Advanced Functional Materials, 2011, 21, 2198-2207.	14.9	97
9	Low-operating-voltage pentacene field-effect transistor with a high-dielectric-constant polymeric gate dielectric. Applied Physics Letters, 2006, 89, 183516.	3.3	90
10	Aerosol Jet Printed, Subâ€2 V Complementary Circuits Constructed from <i>P</i>â€•and <i>N</i>â€Type Electrolyte Gated Transistors. Advanced Materials, 2014, 26, 7032-7037.	21.0	90
11	Novel Ecoâ€Friendly Starch Paper for Use in Flexible, Transparent, and Disposable Organic Electronics. Advanced Functional Materials, 2018, 28, 1704433.	14.9	87
12	Effect of water in ambient air on hysteresis in pentacene field-effect transistors containing gate dielectrics coated with polymers with different functional groups. Organic Electronics, 2008, 9, 673-677.	2.6	85
13	Dual-Function Electrochromic Supercapacitors Displaying Real-Time Capacity in Color. ACS Applied Materials & Interfaces, 2018, 10, 43993-43999.	8.0	82
14	Photoinduced Recovery of Organic Transistor Memories with Photoactive Floating-Gate Interlayers. ACS Applied Materials & Interfaces, 2017, 9, 11759-11769.	8.0	80
15	Reducing the contact resistance in organic thin-film transistors by introducing a PEDOT:PSS hole-injection layer. Organic Electronics, 2008, 9, 864-868.	2.6	79
16	Extremely fast electrochromic supercapacitors based on mesoporous WO3 prepared by an evaporation-induced self-assembly. NPG Asia Materials, 2020, 12, .	7.9	76
17	Aerosol Jet Printed p- and n-type Electrolyte-Gated Transistors with a Variety of Electrode Materials: Exploring Practical Routes to Printed Electronics. ACS Applied Materials & Interfaces, 2014, 6, 18704-18711.	8.0	73
18	Effect of the hydrophobicity and thickness of polymer gate dielectrics on the hysteresis behavior of pentacene-based field-effect transistors. Journal of Applied Physics, 2009, 105, .	2.5	69

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19	High <i>T</i>_g Cyclic Olefin Copolymer Gate Dielectrics for <i>N</i>,<i>N</i>â€²â€Ditridecyl Perylene Diimide Based Fieldâ€Effect Transistors: Improving Performance and Stability with Thermal Treatment. Advanced Functional Materials, 2010, 20, 2611-2618.	14.9	69
20	The Origin of Excellent Gateâ€Bias Stress Stability in Organic Fieldâ€Effect Transistors Employing Fluorinatedâ€Polymer Gate Dielectrics. Advanced Materials, 2014, 26, 7241-7246.	21.0	68
21	Low-voltage, simple WO₃-based electrochromic devices by directly incorporating an anodic species into the electrolyte. Journal of Materials Chemistry C, 2016, 4, 10887-10892.	5.5	64
22	Effect of pentaceneâ€"dielectric affinity on pentacene thin film growth morphology in organic field-effect transistors. Journal of Materials Chemistry, 2010, 20, 5612.	6.7	60
23	Hysteresis behaviour of low-voltage organic field-effect transistors employing high dielectric constant polymer gate dielectrics. Journal Physics D: Applied Physics, 2010, 43, 465102.	2.8	57
24	Electrostatic-Force-Assisted Dispensing Printing of Electrochromic Gels for Low-Voltage Displays. ACS Applied Materials & Interfaces, 2017, 9, 18994-19000.	8.0	57
25	Ultra-Low Power Electrochromic Heat Shutters Through Tailoring Diffusion-Controlled Behaviors. ACS Applied Materials & Interfaces, 2020, 12, 30635-30642.	8.0	55
26	Direct Writing and Aligning of Small-Molecule Organic Semiconductor Crystals via â€œDragging Modeâ€• Electrohydrodynamic Jet Printing for Flexible Organic Field-Effect Transistor Arrays. Journal of Physical Chemistry Letters, 2017, 8, 5492-5500.	4.6	54
27	Non-volatile, Li-doped ion gel electrolytes for flexible WO3-based electrochromic devices. Materials and Design, 2019, 162, 45-51.	7.0	53
28	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. ACS Nano, 2017, 11, 3681-3689.	14.6	52
29	Dependence of Pentacene Crystal Growth on Dielectric Roughness for Fabrication of Flexible Field-Effect Transistors. ACS Applied Materials & Interfaces, 2010, 2, 391-396.	8.0	50
30	High-Performance Triisopropylsilylethynyl Pentacene Transistors via Spin Coating with a Crystallization-Assisting Layer. ACS Applied Materials & Interfaces, 2012, 4, 117-122.	8.0	49
31	A Latticeâ€Strained Organic Singleâ€Crystal Nanowire Array Fabricated via Solutionâ€Phase Nanogratingâ€Assisted Pattern Transfer for Use in Highâ€Mobility Organic Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 3209-3215.	21.0	49
32	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. Scientific Reports, 2016, 6, 29805.	3.3	49
33	Direct patterning of conductive carbon nanotube/polystyrene sulfonate composites via electrohydrodynamic jet printing for use in organic field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 4912-4919.	5.5	49
34	Mulberry paper-based graphene strain sensor for wearable electronics with high mechanical strength. Sensors and Actuators A: Physical, 2020, 301, 111697.	4.1	48
35	Hysteresis-free pentacene field-effect transistors and inverters containing poly(4-vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.3	47
36	Fluorinated Polyimide Gate Dielectrics for the Advancing the Electrical Stability of Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2014, 6, 15209-15216.	8.0	47

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37	Light-responsive spiropyran based polymer thin films for use in organic field-effect transistor memories. Journal of Materials Chemistry C, 2016, 4, 5398-5406.	5.5	45
38	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. ACS Applied Materials & Interfaces, 2016, 8, 5499-5508.	8.0	45
39	Lower hole-injection barrier between pentacene and a 1-hexadecanethiol-modified gold substrate with a lowered work function. Organic Electronics, 2008, 9, 21-29.	2.6	44
40	Highâ€Performance nâ€Channel Thinâ€Film Fieldâ€Effect Transistors Based on a Nanowireâ€Forming Polymer. Advanced Functional Materials, 2013, 23, 2060-2071.	14.9	44
41	Overview of recent progress in electrohydrodynamic jet printing in practical printed electronics: focus on the variety of printable materials for each component. Materials Advances, 2021, 2, 5593-5615.	5.4	42
42	High-performance solution-processed triisopropylsilylethynyl pentacene transistors and inverters fabricated by using the selective self-organization technique. Applied Physics Letters, 2008, 93, .	3.3	41
43	Al2O3/TiO2 nanolaminate gate dielectric films with enhanced electrical performances for organic field-effect transistors. Organic Electronics, 2016, 28, 139-146.	2.6	41
44	Hysteresis-free organic field-effect transistors and inverters using photocrosslinkable poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	3.3	40
45	Critical Factors to Achieve Low Voltageâ€•and Capacitanceâ€Based Organic Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 288-292.	21.0	39
46	Optimization of Al₂O₃/TiO₂ nanolaminate thin films prepared with different oxide ratios, for use in organic light-emitting diode encapsulation, via plasma-enhanced atomic layer deposition. Physical Chemistry Chemical Physics, 2016, 18, 1042-1049.	2.8	38
47	Printed ion-gel transistor using electrohydrodynamic (EHD) jet printing process. Organic Electronics, 2018, 52, 123-129.	2.6	38
48	Facile and Microcontrolled Blade Coating of Organic Semiconductor Blends for Uniaxial Crystal Alignment and Reliable Flexible Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 13481-13490.	8.0	38
49	Direct Observation of Interfacial Morphology in Poly(3-hexylthiophene) Transistors: Relationship between Grain Boundary and Field-Effect Mobility. ACS Applied Materials & Interfaces, 2010, 2, 48-53.	8.0	37
50	Electrohydrodynamic printing of poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) electrodes with ratio-optimized surfactant. RSC Advances, 2016, 6, 2004-2010.	3.6	37
51	High resolution patterning of Ag nanowire flexible transparent electrode via electrohydrodynamic jet printing of acrylic polymer-silicate nanoparticle composite overcoating layer. Organic Electronics, 2018, 62, 400-406.	2.6	37
52	Highly stable fluorine-rich polymer treated dielectric surface for the preparation of solution-processed organic field-effect transistors. Journal of Materials Chemistry C, 2013, 1, 1272-1278.	5.5	36
53	Inorganic/organic multilayer passivation incorporating alternating stacks of organic/inorganic multilayers for long-term air-stable organic light-emitting diodes. Organic Electronics, 2013, 14, 3385-3391.	2.6	36
54	A New Architecture for Fibrous Organic Transistors Based on a Doubleâ€Stranded Assembly of Electrode Microfibers for Electronic Textile Applications. Advanced Materials, 2019, 31, e1900564.	21.0	36

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55	Engineering Aggregationâ€Resistant MXene Nanosheets As Highly Conductive and Stable Inks for Allâ€Printed Electronics. Advanced Functional Materials, 2021, 31, 2010897.	14.9	35
56	Grafting Fluorinated Polymer Nanolayer for Advancing the Electrical Stability of Organic Field-Effect Transistors. Chemistry of Materials, 2014, 26, 6467-6476.	6.7	34
57	Damage-free hybrid encapsulation of organic field-effect transistors to reduce environmental instability. Journal of Materials Chemistry, 2012, 22, 7731.	6.7	33
58	Photo-Cross-Linkable Organicâ€"Inorganic Hybrid Gate Dielectric for High Performance Organic Thin Film Transistors. Journal of Physical Chemistry C, 2016, 120, 5790-5796.	3.1	33
59	Direct writing of silver nanowire electrodes via dragging mode electrohydrodynamic jet printing for organic thin film transistors. Organic Electronics, 2018, 62, 357-365.	2.6	33
60	Facile Photo-cross-linking System for Polymeric Gate Dielectric Materials toward Solution-Processed Organic Field-Effect Transistors: Role of a Cross-linker in Various Polymer Types. ACS Applied Materials & Interfaces, 2020, 12, 30600-30615.	8.0	33
61	Effects of Poor Solvent for Solution-Processing Passivation of Organic Field Effect Transistors. Journal of the Electrochemical Society, 2010, 157, H90.	2.9	32
62	Cone-jet printing of aligned silver nanowire/poly(ethylene oxide) composite electrodes for organic thin-film transistors. Organic Electronics, 2019, 69, 190-199.	2.6	32
63	Vertical Conducting Nanodomains Self-Assembled from Poly(3-hexyl thiophene)-Based Diblock Copolymer Thin Films. Journal of Physical Chemistry C, 2011, 115, 4228-4234.	3.1	31
64	Photopatternable Poly(4-styrene sulfonic acid)-Wrapped MWNT Thin-Film Source/Drain Electrodes for Use in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2011, 3, 74-79.	8.0	30
65	Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. ACS Applied Materials & Interfaces, 2020, 12, 17799-17805.	8.0	30
66	Highly-impermeable Al2O3/HfO2 moisture barrier films grown by low-temperature plasma-enhanced atomic layer deposition. Organic Electronics, 2017, 50, 296-303.	2.6	29
67	An experimental study on the thermal performance of cellulose-graphene-based thermal interface materials. International Journal of Heat and Mass Transfer, 2019, 132, 944-951.	4.8	29
68	Ambipolar thin-film transistors and an inverter based on pentacene/self-assembled monolayer modified ZnO hybrid structures for balanced hole and electron mobilities. Organic Electronics, 2011, 12, 411-418.	2.6	28
69	Layerâ€byâ€Layer Conjugated Extension of a Semiconducting Polymer for Highâ€Performance Organic Fieldâ€Effect Transistor. Advanced Functional Materials, 2015, 25, 3833-3839.	14.9	28
70	Effects of polymer properties on jetting performance of electrohydrodynamic printing. Journal of Applied Polymer Science, 2017, 134, 45044.	2.6	28
71	Multicolor, dual-image, printed electrochromic displays based on tandem configuration. Chemical Engineering Journal, 2022, 429, 132319.	12.7	28
72	An inkjet-printed passivation layer based on a photocrosslinkable polymer for long-term stable pentacene field-effect transistors. Organic Electronics, 2009, 10, 67-72.	2.6	27

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73	The effect of surfactants on electrohydrodynamic jet printing and the performance of organic field-effect transistors. Physical Chemistry Chemical Physics, 2018, 20, 1210-1220.	2.8	27
74	Programmed Design of Highly Crystalline Organic Semiconductor Patterns with Uniaxial Alignment via Blade Coating for High-Performance Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 42403-42411.	8.0	27
75	Voltage-Tunable Dual Image of Electrostatic Force-Assisted Dispensing Printed, Tungsten Trioxide-Based Electrochromic Devices with a Symmetric Configuration. ACS Applied Materials & Interfaces, 2020, 12, 4022-4030.	8.0	27
76	A novel design of donorâ€“acceptor polymer semiconductors for printed electronics: application to transistors and gas sensors. Journal of Materials Chemistry C, 2020, 8, 8410-8419.	5.5	27
77	Printable Ultraâ€Flexible Fluorinated Organicâ€“Inorganic Nanohybrid Solâ€“Gel Derived Gate Dielectrics for Highly Stable Organic Thinâ€Film Transistors and Other Practical Applications. Advanced Functional Materials, 2021, 31, 2009539.	14.9	27
78	Effects of semiconductor/dielectric interfacial properties on the electrical performance of top-gate organic transistors. Organic Electronics, 2014, 15, 1299-1305.	2.6	26
79	Patterned transparent electrode with a continuous distribution of silver nanowires produced by an etching-free patterning method. Scientific Reports, 2017, 7, 40087.	3.3	26
80	A highly sensitive and stress-direction-recognizing asterisk-shaped carbon nanotube strain sensor. Journal of Materials Chemistry C, 2019, 7, 9504-9512.	5.5	26
81	Directly drawn ZnO semiconductors and MWCNT/PSS electrodes via electrohydrodynamic jet printing for use in thin-film transistors: The ideal combination for reliable device performances. Organic Electronics, 2016, 39, 272-278.	2.6	25
82	Photopatternable ultrathin gate dielectrics for low-voltage-operating organic circuits. Applied Physics Letters, 2009, 95, .	3.3	24
83	Photoâ€Curable Polymer Blend Dielectrics for Advancing Organic Fieldâ€Effect Transistor Applications. Advanced Materials, 2010, 22, 4809-4813.	21.0	24
84	Photopatternable, highly conductive and low work function polymer electrodes for high-performance n-type bottom contact organic transistors. Organic Electronics, 2011, 12, 516-519.	2.6	24
85	Unified film patterning and annealing of an organic semiconductor with micro-grooved wet stamps. Journal of Materials Chemistry C, 2016, 4, 6996-7003.	5.5	24
86	Optimized low-temperature fabrication of WO₃ films for electrochromic devices. Journal Physics D: Applied Physics, 2017, 50, 465105.	2.8	24
87	Electrohydrodynamic (EHD) jet printing of carbon-black composites for solution-processed organic field-effect transistors. Organic Electronics, 2019, 73, 279-285.	2.6	24
88	Non-lithographic direct patterning of carbon nanomaterial electrodes via electrohydrodynamic-printed wettability patterns by polymer brush for fabrication of organic field-effect transistor. Applied Surface Science, 2020, 515, 145989.	6.1	24
89	Optimization of electrohydrodynamic-printed organic electrodes for bottom-contact organic thin film transistors. Organic Electronics, 2016, 38, 48-54.	2.6	23
90	Newly Synthesized Nonvacuum Processed Highâ€k Polymeric Dielectrics with Carboxyl Functionality for Highly Stable Operating Printed Transistor Applications. Advanced Functional Materials, 2021, 31, 2007304.	14.9	23

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91	Enhanced Electrical Percolation Due to Interconnection of Three-Dimensional Pentacene Islands in Thin Films on Low Surface Energy Polyimide Gate Dielectrics. Journal of Physical Chemistry B, 2006, 110, 20302-20307.	2.6	22
92	Solution-processed organic field-effect transistors composed of poly(4-styrene sulfonate) wrapped multiwalled carbon nanotube source/drain electrodes. Organic Electronics, 2009, 10, 363-367.	2.6	22
93	Direct printing of soluble acene crystal stripes by a programmed dip-coating process for organic field-effect transistor applications. Journal of Materials Chemistry C, 2018, 6, 799-807.	5.5	21
94	Engineering Asymmetric Charge Injection/Extraction to Optimize Organic Transistor Performances. ACS Applied Materials & Interfaces, 2019, 11, 10108-10117.	8.0	21
95	Improved n-type bottom-contact organic transistors by introducing a poly(3,4-ethylenedioxythiophene):poly(4-styrene sulfonate) coating on the source/drain electrodes. Applied Physics Letters, 2010, 97, 103304.	3.3	20
96	Electrohydrodynamic printing for scalable MoS₂flake coating: application to gas sensing device. Nanotechnology, 2016, 27, 435501.	2.6	20
97	Spray-coated transparent hybrid electrodes for high-performance electrochromic devices on plastic. Organic Electronics, 2018, 62, 151-156.	2.6	20
98	Strategy for Selective Printing of Gate Insulators Customized for Practical Application in Organic Integrated Devices. ACS Applied Materials & Interfaces, 2021, 13, 1043-1056.	8.0	20
99	3D Hollow Framework Silver Nanowire Electrodes for High-Performance Bottom-Contact Organic Transistors. ACS Applied Materials & Interfaces, 2015, 7, 14272-14278.	8.0	19
100	Realization of electrically stable organic field-effect transistors using simple polymer blended dielectrics. Organic Electronics, 2015, 21, 111-116.	2.6	19
101	Effect of lateral confinement on crystallization behavior of a small-molecule semiconductor during capillary force lithography for use in high-performance OFETs. Journal of Industrial and Engineering Chemistry, 2019, 75, 187-193.	5.8	19
102	Comparison of semiconductor growth and charge transport on hydrophobic polymer dielectrics of organic field-effect transistors: Cytop vs. polystyrene. Organic Electronics, 2020, 77, 105485.	2.6	19
103	Direct-patterned copper/poly(ethylene oxide) composite electrodes for organic thin-film transistors through cone-jet mode by electrohydrodynamic jet printing. Journal of Industrial and Engineering Chemistry, 2020, 85, 269-275.	5.8	19
104	Various Coating Methodologies of WO3 According to the Purpose for Electrochromic Devices. Nanomaterials, 2020, 10, 821.	4.1	18
105	Directionally Aligned Amorphous Polymer Chains via Electrohydrodynamic-Jet Printing: Analysis of Morphology and Polymer Field-Effect Transistor Characteristics. ACS Applied Materials & Interfaces, 2017, 9, 39493-39501.	8.0	17
106	Highly stable flexible organic field-effect transistors with Parylene-C gate dielectrics on a flexible substrate. Organic Electronics, 2019, 75, 105391.	2.6	17
107	Advanced thin gas barriers film incorporating alternating structure of PEALD-based Al2O3/organic-inorganic nanohybrid layers. Applied Surface Science, 2019, 475, 926-933.	6.1	17
108	Slot-die coating of solâ€“gel-based organicâ€“inorganic nanohybrid dielectric layers for flexible and large-area organic thin film transistors. Applied Surface Science, 2020, 529, 147198.	6.1	17

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109	All-organic solution-processed two-terminal transistors fabricated using the photoinduced p-channels. Applied Physics Letters, 2009, 94, 043303.	3.3	16
110	Photopatternable Source/Drain Electrodes using Multiwalled Carbon Nanotube/Polymer Nanocomposites for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2009, 1, 2332-2337.	8.0	16
111	Effect of solvent on electrical conductivity and gas sensitivity of PEDOT: PSS polymer composite films. Journal of Applied Polymer Science, 2015, 132, .	2.6	16
112	Fluorinated polymer-grafted organic dielectrics for organic field-effect transistors with low-voltage and electrical stability. Physical Chemistry Chemical Physics, 2015, 17, 16791-16797.	2.8	16
113	Enhanced solvent resistance and electrical performance of electrohydrodynamic jet printed PEDOT:PSS composite patterns: effects of hardeners on the performance of organic thin-film transistors. Physical Chemistry Chemical Physics, 2019, 21, 25690-25699.	2.8	16
114	Complementary photo and temperature cured polymer dielectrics with high-quality dielectric properties for organic semiconductors. Journal of Materials Chemistry, 2012, 22, 19940.	6.7	15
115	Impact of Energetically Engineered Dielectrics on Charge Transport in Vacuum-Deposited Bis(triisopropylsilylethynyl)pentacene. Journal of Physical Chemistry C, 2015, 119, 28819-28827.	3.1	15
116	Tuning the Work Function of Printed Polymer Electrodes by Introducing a Fluorinated Polymer To Enhance the Operational Stability in Bottom-Contact Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 12637-12646.	8.0	15
117	Tetrathiafulvalene: effective organic anodic materials for WO₃-based electrochromic devices. RSC Advances, 2019, 9, 19450-19456.	3.6	15
118	Novel triphenylamine containing poly-viologen for voltage-tunable multi-color electrochromic device. Dyes and Pigments, 2021, 190, 109321.	3.7	15
119	Dielectric surface-polarity tuning and enhanced operation stability of solution-processed organic field-effect transistors. Organic Electronics, 2015, 17, 87-93.	2.6	14
120	Organic thin-film transistors with sub-10-micrometer channel length with printed polymer/carbon nanotube electrodes. Organic Electronics, 2018, 52, 165-171.	2.6	14
121	Printed Water-Based ITO Nanoparticle via Electrohydrodynamic (EHD) Jet Printing and Its Application of ZnO Transistors. Electronic Materials Letters, 2019, 15, 595-604.	2.2	14
122	A critical role of amphiphilic polymers in organicâ€“inorganic hybrid solâ€“gel derived gate dielectrics for flexible organic thin-film transistors. Journal of Materials Chemistry C, 2019, 7, 11612-11620.	5.5	14
123	Optimization of nanocomposite gate insulators for organic thin film transistors. Organic Electronics, 2015, 17, 144-150.	2.6	13
124	Direct Printing of Asymmetric Electrodes for Improving Charge Injection/Extraction in Organic Electronics. ACS Applied Materials & Interfaces, 2020, 12, 33999-34010.	8.0	13
125	The Hidden Potential of Polysilsesquioxane for Highâ€<i>k</i>: Analysis of the Origin of its Dielectric Nature and Practical Lowâ€Voltageâ€Operating Applications beyond the Unit Device. Advanced Functional Materials, 2022, 32, 2104030.	14.9	13
126	Charge transport and morphology of pentacene films confined in nano-patterned region. NPG Asia Materials, 2014, 6, e91-e91.	7.9	12

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127	Branched Segments in Polymer Gate Dielectric as Intrinsic Charge Trap Sites in Organic Transistors. Journal of Physical Chemistry C, 2015, 119, 7670-7677.	3.1	12
128	(Poly(3,4-ethylenedioxythiophene):Polystyrene Sulfonate):Polytetrafluoroethylene for Use in High-Performance and Stable Bottom-Contact Organic Field-Effect Transistors. Journal of Physical Chemistry C, 2016, 120, 956-962.	3.1	12
129	Scalable high-performance graphene paper with enhanced electrical and mechanical properties. Thin Solid Films, 2017, 632, 50-54.	1.8	12
130	Colloidally stable organicâ€“inorganic hybrid nanoparticles prepared using alkoxysilane-functionalized amphiphilic polymer precursors and mechanical properties of their cured coating film. Journal of Industrial and Engineering Chemistry, 2018, 68, 209-219.	5.8	12
131	Inkjet Printing of Fewâ€Layer Enriched Black Phosphorus Nanosheets for Electronic Devices. Advanced Electronic Materials, 2021, 7, 2100577.	5.1	12
132	Tunable electrochromic behavior of biphenyl poly(viologen)-based ion gels in all-in-one devices. Organic Electronics, 2022, 100, 106395.	2.6	12
133	Electrohydrodynamic-Jet-Printed Phthalimide-Derived Conjugated Polymers for Organic Field-Effect Transistors and Logic Gates. ACS Applied Materials & Interfaces, 2022, 14, 7073-7081.	8.0	12
134	Solution-processed n-type fullerene field-effect transistors prepared using CVD-grown graphene electrodes: improving performance with thermal annealing. Physical Chemistry Chemical Physics, 2015, 17, 6635-6643.	2.8	11
135	Solvent boiling point affects the crystalline properties and performances of anthradithiophene-based devices. Dyes and Pigments, 2015, 114, 60-68.	3.7	11
136	Dense Assembly of Soluble Acene Crystal Ribbons and Its Application to Organic Transistors. ACS Applied Materials & Interfaces, 2016, 8, 24753-24760.	8.0	11
137	Exploring the ultrasonic nozzle spray-coating technique for the fabrication of solution-processed organic electronics. Organic Electronics, 2017, 49, 212-217.	2.6	11
138	High-efficiency nitrene-based crosslinking agent for robust dielectric layers and high-performance solution-processed organic field-effect transistors. Applied Surface Science, 2019, 479, 280-286.	6.1	11
139	Gate-Bias Stability Behavior Tailored by Dielectric Polymer Stereostructure in Organic Transistors. ACS Applied Materials & Interfaces, 2015, 7, 25045-25052.	8.0	10
140	Effect of carbon nanotube addition on mechanical reliability of Ag nanowire network. Materials Letters, 2017, 198, 202-205.	2.6	10
141	Anomalous Ambipolar Transport of Organic Semiconducting Crystals via Control of Molecular Packing Structures. ACS Applied Materials & Interfaces, 2017, 9, 27839-27846.	8.0	10
142	Isomeric effects of poly-viologens on electrochromic performance and applications in low-power electrochemical devices. Solar Energy Materials and Solar Cells, 2022, 240, 111734.	6.2	10
143	Photo-enhanced polymer memory device based on polyimide containing spiropyran. Electronic Materials Letters, 2016, 12, 537-544.	2.2	9
144	Accelerated lifetime test based on general electrical principles for light-emitting electrochemical cells. Organic Electronics, 2016, 34, 50-56.	2.6	9

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145	New dithienophosphole-based donorâ€“acceptor alternating copolymers: Synthesis and structure property relationships in OFET. Dyes and Pigments, 2016, 125, 316-322.	3.7	9
146	Facile method for enhancing conductivity of printed carbon nanotubes electrode via simple rinsing process. Organic Electronics, 2017, 47, 174-180.	2.6	9
147	Boosting the ambipolar field-effect transistor performance of a DPP-based copolymer via electrohydrodynamic-jet direct writing. Journal of Industrial and Engineering Chemistry, 2019, 78, 172-177.	5.8	9
148	Electrohydrodynamic jet printing of small-molecule semiconductor crystals on chemically patterned surface for high-performance organic field-effect transistors. Materials Chemistry and Physics, 2022, 285, 126165.	4.0	9
149	Hybrid flexible ambipolar thin-film transistors based on pentacene and ZnO capable of low-voltage operation. Chinese Journal of Physics, 2016, 54, 471-474.	3.9	8
150	Solâ€“Gel-Processed Organicâ€“Inorganic Hybrid for Flexible Conductive Substrates Based on Gravure-Printed Silver Nanowires and Graphene. Polymers, 2019, 11, 158.	4.5	8
151	â€œDragging modeâ€•electrohydrodynamic jet printing of polymer-wrapped semiconducting single-walled carbon nanotubes for NO gas-sensing field-effect transistors. Journal of Materials Chemistry C, 2021, 9, 15804-15812.	5.5	8
152	Direct Patterned Zinc-Tin-Oxide for Solution-Processed Thin-Film Transistors and Complementary Inverter through Electrohydrodynamic Jet Printing. Nanomaterials, 2020, 10, 1304.	4.1	7
153	Screen printing of silver nanoparticles on the source/drain electrodes of organic thin-film transistors. Organic Electronics, 2022, 106, 106524.	2.6	7
154	Electrohydrodynamic-Jet (EHD)-Printed Diketopyrrolopyroole-Based Copolymer for OFETs and Circuit Applications. Polymers, 2019, 11, 1759.	4.5	6
155	Parylene-based polymeric dielectric top-gate organic field-effect transistors exposed to a UV/ozone environment. Organic Electronics, 2020, 87, 105942.	2.6	6
156	Electrohydrodynamic-Jet-Printed Cinnamate-Fluorinated Cross-Linked Polymeric Dielectrics for Flexible and Electrically Stable Operating Organic Thin-Film Transistors and Integrated Devices. ACS Applied Materials & Interfaces, 2021, 13, 50149-50162.	8.0	6
157	Gastric liposarcoma presenting as a huge pedunculated polyp. Endoscopy, 2014, 46, E441-E442.	1.8	5
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