

Se Hyun Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174
papers

4,805
citations

36
h-index

60
g-index

183
ext. papers

5,480
ext. citations

7.3
avg, IF

5.75
L-index

#	Paper	IF	Citations
174	Tunable electrochromic behavior of biphenyl poly(viologen)-based ion gels in all-in-one devices. <i>Organic Electronics</i> , 2022 , 100, 106395	3.5	1
173	Multicolor, dual-image, printed electrochromic displays based on tandem configuration. <i>Chemical Engineering Journal</i> , 2022 , 429, 132319	14.7	3
172	Isomeric effects of poly-viologens on electrochromic performance and applications in low-power electrochemical devices. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 240, 111734	6.4	3
171	Electrohydrodynamic jet printing of small-molecule semiconductor crystals on chemically patterned surface for high-performance organic field-effect transistors. <i>Materials Chemistry and Physics</i> , 2022 , 126165	4.4	0
170	Screen printing of silver nanoparticles on the source/drain electrodes of organic thin-film transistors. <i>Organic Electronics</i> , 2022 , 106, 106524	3.5	1
169	Electrohydrodynamic-Jet-Printed Cinnamate-Fluorinated Cross-Linked Polymeric Dielectrics for Flexible and Electrically Stable Operating Organic Thin-Film Transistors and Integrated Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50149-50162	9.5	3
168	Directionally Patterned Large-Area Poly(3-hexylthiophene) Field-Effect Transistors via Flow-Blade Printing Method Using Coffee-Ring Effect: Uniform Performance Regardless of Pattern Fabrication Condition and Applications. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 385-394	4	3
167	Strategy for Selective Printing of Gate Insulators Customized for Practical Application in Organic Integrated Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1043-1056	9.5	10
166	Engineering Aggregation-Resistant MXene Nanosheets As Highly Conductive and Stable Inks for All-Printed Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2010897	15.6	12
165	Facile and reliable route to ensure chemical-environmental stability of pen-printed organic transistors with blended polymer Semiconductor/Insulator. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124346	4.4	1
164	Advanced Side-Impermeability Characteristics of Fluorinated Organic-Inorganic Nanohybrid Materials for Thin Film Encapsulation. <i>Macromolecular Research</i> , 2021 , 29, 313-320	1.9	2
163	Novel triphenylamine containing poly-viologen for voltage-tunable multi-color electrochromic device. <i>Dyes and Pigments</i> , 2021 , 190, 109321	4.6	5
162	Printable Ultra-Flexible Fluorinated Organic/Inorganic Nanohybrid Sol-Gel Derived Gate Dielectrics for Highly Stable Organic Thin-Film Transistors and Other Practical Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2009539	15.6	11
161	Newly Synthesized Nonvacuum Processed High-k Polymeric Dielectrics with Carboxyl Functionality for Highly Stable Operating Printed Transistor Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2007304	15.6	12
160	Overview of recent progress in electrohydrodynamic jet printing in practical printed electronics: focus on the variety of printable materials for each component. <i>Materials Advances</i> , 2021 , 2, 5593-5615	3.3	12
159	Inkjet Printing of Few-Layer Enriched Black Phosphorus Nanosheets for Electronic Devices. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100577	6.4	3
158	Parylene-based polymeric dielectric top-gate organic field-effect transistors exposed to a UV/ozone environment. <i>Organic Electronics</i> , 2020 , 87, 105942	3.5	4

157	Ultra-Low Power Electrochromic Heat Shutters Through Tailoring Diffusion-Controlled Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30635-30642	9.5	31
156	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. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30600-30615	9.5	16
155	Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17799-17805	9.5	14
154	Non-lithographic direct patterning of carbon nanomaterial electrodes via electrohydrodynamic-printed wettability patterns by polymer brush for fabrication of organic field-effect transistor. <i>Applied Surface Science</i> , 2020 , 515, 145989	6.7	15
153	Slot-die coating of sol-gel-based organic/inorganic nanohybrid dielectric layers for flexible and large-area organic thin film transistors. <i>Applied Surface Science</i> , 2020 , 529, 147198	6.7	11
152	Direct Printing of Asymmetric Electrodes for Improving Charge Injection/Extraction in Organic Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33999-34010	9.5	9
151	Direct-patterned copper/poly(ethylene oxide) composite electrodes for organic thin-film transistors through cone-jet mode by electrohydrodynamic jet printing. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 85, 269-275	6.3	10
150	Various Coating Methodologies of WO According to the Purpose for Electrochromic Devices. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
149	Solution-Processed Flexible Gas Barrier Films for Organic Field-Effect Transistors. <i>Macromolecular Research</i> , 2020 , 28, 782-788	1.9	2
148	A novel design of donor-acceptor polymer semiconductors for printed electronics: application to transistors and gas sensors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8410-8419	7.1	18
147	Voltage-Tunable Dual Image of Electrostatic Force-Assisted Dispensing Printed, Tungsten Trioxide-Based Electrochromic Devices with a Symmetric Configuration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4022-4030	9.5	15
146	Mulberry paper-based graphene strain sensor for wearable electronics with high mechanical strength. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111697	3.9	22
145	Direct Patterned Zinc-Tin-Oxide for Solution-Processed Thin-Film Transistors and Complementary Inverter through Electrohydrodynamic Jet Printing. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
144	Extremely fast electrochromic supercapacitors based on mesoporous WO ₃ prepared by an evaporation-induced self-assembly. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	30
143	Comparison of semiconductor growth and charge transport on hydrophobic polymer dielectrics of organic field-effect transistors: Cytop vs. polystyrene. <i>Organic Electronics</i> , 2020 , 77, 105485	3.5	11
142	A critical role of amphiphilic polymers in organic/inorganic hybrid sol-gel derived gate dielectrics for flexible organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11612-11620	7.1	12
141	Sol-Gel-Processed Organic/Inorganic Hybrid for Flexible Conductive Substrates Based on Gravure-Printed Silver Nanowires and Graphene. <i>Polymers</i> , 2019 , 11,	4.5	2
140	Advanced thin gas barriers film incorporating alternating structure of PEALD-based Al ₂ O ₃ /organic-inorganic nanohybrid layers. <i>Applied Surface Science</i> , 2019 , 475, 926-933	6.7	13

139	Boosting the ambipolar field-effect transistor performance of a DPP-based copolymer via electrohydrodynamic-jet direct writing. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 172-177	6.3	4
138	A highly sensitive and stress-direction-recognizing asterisk-shaped carbon nanotube strain sensor. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9504-9512	7.1	17
137	Effect of lateral confinement on crystallization behavior of a small-molecule semiconductor during capillary force lithography for use in high-performance OFETs. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 75, 187-193	6.3	12
136	Facile and Microcontrolled Blade Coating of Organic Semiconductor Blends for Uniaxial Crystal Alignment and Reliable Flexible Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13481-13490	9.5	26
135	Cone-jet printing of aligned silver nanowire/poly(ethylene oxide) composite electrodes for organic thin-film transistors. <i>Organic Electronics</i> , 2019 , 69, 190-199	3.5	18
134	Surface treatment of Parylene-C gate dielectric for highly stable organic field-effect transistors. <i>Organic Electronics</i> , 2019 , 69, 128-134	3.5	5
133	A New Architecture for Fibrous Organic Transistors Based on a Double-Stranded Assembly of Electrode Microfibers for Electronic Textile Applications. <i>Advanced Materials</i> , 2019 , 31, e1900564	24	18
132	Engineering Asymmetric Charge Injection/Extraction to Optimize Organic Transistor Performances. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10108-10117	9.5	16
131	Printed Water-Based ITO Nanoparticle via Electrohydrodynamic (EHD) Jet Printing and Its Application of ZnO Transistors. <i>Electronic Materials Letters</i> , 2019 , 15, 595-604	2.9	11
130	Highly stable flexible organic field-effect transistors with Parylene-C gate dielectrics on a flexible substrate. <i>Organic Electronics</i> , 2019 , 75, 105391	3.5	14
129	Tetrathiafulvalene: effective organic anodic materials for WO ₃ -based electrochromic devices.. <i>RSC Advances</i> , 2019 , 9, 19450-19456	3.7	9
128	Electrohydrodynamic (EHD) jet printing of carbon-black composites for solution-processed organic field-effect transistors. <i>Organic Electronics</i> , 2019 , 73, 279-285	3.5	17
127	Programmed Design of Highly Crystalline Organic Semiconductor Patterns with Uniaxial Alignment via Blade Coating for High-Performance Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42403-42411	9.5	17
126	Electrohydrodynamic-Jet (EHD)-Printed Diketopyrrolopyrrole-Based Copolymer for OFETs and Circuit Applications. <i>Polymers</i> , 2019 , 11,	4.5	4
125	High-efficiency nitrene-based crosslinking agent for robust dielectric layers and high-performance solution-processed organic field-effect transistors. <i>Applied Surface Science</i> , 2019 , 479, 280-286	6.7	7
124	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. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25690-25699	3.6	11
123	An experimental study on the thermal performance of cellulose-graphene-based thermal interface materials. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 132, 944-951	4.9	24
122	Non-volatile, Li-doped ion gel electrolytes for flexible WO ₃ -based electrochromic devices. <i>Materials and Design</i> , 2019 , 162, 45-51	8.1	34

121	Photocrosslinkable zinc diacrylate-based gate insulators for reliable operation of organic thin film transistors. <i>Organic Electronics</i> , 2018 , 59, 49-55	3.5	3
120	Printed ion-gel transistor using electrohydrodynamic (EHD) jet printing process. <i>Organic Electronics</i> , 2018 , 52, 123-129	3.5	26
119	Organic thin-film transistors with sub-10-micrometer channel length with printed polymer/carbon nanotube electrodes. <i>Organic Electronics</i> , 2018 , 52, 165-171	3.5	8
118	Spray-coated transparent hybrid electrodes for high-performance electrochromic devices on plastic. <i>Organic Electronics</i> , 2018 , 62, 151-156	3.5	12
117	Colloidally stable organic/inorganic hybrid nanoparticles prepared using alkoxysilane-functionalized amphiphilic polymer precursors and mechanical properties of their cured coating film. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 209-219	6.3	10
116	Direct writing of silver nanowire electrodes via dragging mode electrohydrodynamic jet printing for organic thin film transistors. <i>Organic Electronics</i> , 2018 , 62, 357-365	3.5	25
115	High resolution patterning of Ag nanowire flexible transparent electrode via electrohydrodynamic jet printing of acrylic polymer-silicate nanoparticle composite overcoating layer. <i>Organic Electronics</i> , 2018 , 62, 400-406	3.5	26
114	Novel Eco-Friendly Starch Paper for Use in Flexible, Transparent, and Disposable Organic Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1704433	15.6	67
113	The effect of surfactants on electrohydrodynamic jet printing and the performance of organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1210-1220	3.6	20
112	Direct printing of soluble acene crystal stripes by a programmed dip-coating process for organic field-effect transistor applications. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 799-807	7.1	19
111	Dual-Function Electrochromic Supercapacitors Displaying Real-Time Capacity in Color. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43993-43999	9.5	52
110	Patterned transparent electrode with a continuous distribution of silver nanowires produced by an etching-free patterning method. <i>Scientific Reports</i> , 2017 , 7, 40087	4.9	23
109	Effect of carbon nanotube addition on mechanical reliability of Ag nanowire network. <i>Materials Letters</i> , 2017 , 198, 202-205	3.3	8
108	Reduced water vapor transmission rates of low-temperature solution-processed metal oxide barrier films via ultraviolet annealing. <i>Applied Surface Science</i> , 2017 , 414, 262-269	6.7	2
107	Facile method for enhancing conductivity of printed carbon nanotubes electrode via simple rinsing process. <i>Organic Electronics</i> , 2017 , 47, 174-180	3.5	8
106	Electrostatic-Force-Assisted Dispensing Printing of Electrochromic Gels for Low-Voltage Displays. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18994-19000	9.5	43
105	Scalable high-performance graphene paper with enhanced electrical and mechanical properties. <i>Thin Solid Films</i> , 2017 , 632, 50-54	2.2	12
104	Effects of polymer properties on jetting performance of electrohydrodynamic printing. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45044	2.9	17

103	Photoinduced Recovery of Organic Transistor Memories with Photoactive Floating-Gate Interlayers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11759-11769	9.5	56
102	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. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12637-12646	9.5	10
101	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. <i>ACS Nano</i> , 2017 , 11, 3681-3689	16.7	43
100	Direct Writing and Aligning of Small-Molecule Organic Semiconductor Crystals via "Dragging Mode" Electrohydrodynamic Jet Printing for Flexible Organic Field-Effect Transistor Arrays. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5492-5500	6.4	38
99	Optimized low-temperature fabrication of WO ₃ films for electrochromic devices. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 465105	3	18
98	Directionally Aligned Amorphous Polymer Chains via Electrohydrodynamic-Jet Printing: Analysis of Morphology and Polymer Field-Effect Transistor Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39493-39501	9.5	7
97	Anomalous Ambipolar Transport of Organic Semiconducting Crystals via Control of Molecular Packing Structures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27839-27846	9.5	9
96	Highly-impermeable Al ₂ O ₃ /HfO ₂ moisture barrier films grown by low-temperature plasma-enhanced atomic layer deposition. <i>Organic Electronics</i> , 2017 , 50, 296-303	3.5	18
95	Exploring the ultrasonic nozzle spray-coating technique for the fabrication of solution-processed organic electronics. <i>Organic Electronics</i> , 2017 , 49, 212-217	3.5	8
94	New dithienophosphole-based donor-acceptor alternating copolymers: Synthesis and structure property relationships in OFET. <i>Dyes and Pigments</i> , 2016 , 125, 316-322	4.6	6
93	Unified film patterning and annealing of an organic semiconductor with micro-grooved wet stamps. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6996-7003	7.1	21
92	Dense Assembly of Soluble Acene Crystal Ribbons and Its Application to Organic Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24753-60	9.5	8
91	Spin Self-Assembled Clay Nanocomposite Passivation Layers Made from a Photocrosslinkable Poly(vinyl alcohol) and Na ⁺ -Montmorillonite Enhance the Environmental Stability of Organic Thin-Film Transistors. <i>Chinese Journal of Chemistry</i> , 2016 , 34, 1103-1108	4.9	3
90	Hybrid flexible ambipolar thin-film transistors based on pentacene and ZnO capable of low-voltage operation. <i>Chinese Journal of Physics</i> , 2016 , 54, 471-474	3.5	6
89	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. <i>Organic Electronics</i> , 2016 , 39, 272-278	3.5	20
88	Low-voltage, simple WO ₃ -based electrochromic devices by directly incorporating an anodic species into the electrolyte. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10887-10892	7.1	44
87	Light-responsive spiropyran based polymer thin films for use in organic field-effect transistor memories. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5398-5406	7.1	35
86	Maintaining effective mobility and enhancing reliability by using a blend system in solution-processed organic field-effect transistors. <i>Chinese Journal of Physics</i> , 2016 , 54, 347-351	3.5	

85	Al ₂ O ₃ /TiO ₂ nanolaminate gate dielectric films with enhanced electrical performances for organic field-effect transistors. <i>Organic Electronics</i> , 2016 , 28, 139-146	3.5	33
84	Optimization of Al ₂ O ₃ /TiO ₂ nanolaminate thin films prepared with different oxide ratios, for use in organic light-emitting diode encapsulation, via plasma-enhanced atomic layer deposition. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1042-9	3.6	35
83	(Poly(3,4-ethylenedioxythiophene):Polystyrene Sulfonate):Polytetrafluoroethylene for Use in High-Performance and Stable Bottom-Contact Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 956-962	3.8	11
82	Engineering the morphologies and charge transport properties of newly synthesized dibenzochrysene-based small molecules by attaching various side groups. <i>Dyes and Pigments</i> , 2016 , 130, 176-182	4.6	4
81	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5499-508	9.5	37
80	Photo-Cross-Linkable Organic/Inorganic Hybrid Gate Dielectric for High Performance Organic Thin Film Transistors. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5790-5796	3.8	31
79	Electrohydrodynamic printing of poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) electrodes with ratio-optimized surfactant. <i>RSC Advances</i> , 2016 , 6, 2004-2010	3.7	26
78	Photo-enhanced polymer memory device based on polyimide containing spiropyran. <i>Electronic Materials Letters</i> , 2016 , 12, 537-544	2.9	5
77	A Lattice-Strained Organic Single-Crystal Nanowire Array Fabricated via Solution-Phase Nanograting-Assisted Pattern Transfer for Use in High-Mobility Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 3209-15	24	42
76	Nanowires: A Lattice-Strained Organic Single-Crystal Nanowire Array Fabricated via Solution-Phase Nanograting-Assisted Pattern Transfer for Use in High-Mobility Organic Field-Effect Transistors (Adv. Mater. 16/2016). <i>Advanced Materials</i> , 2016 , 28, 3034	24	
75	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. <i>Scientific Reports</i> , 2016 , 6, 29805	4.9	43
74	Accelerated lifetime test based on general electrical principles for light-emitting electrochemical cells. <i>Organic Electronics</i> , 2016 , 34, 50-56	3.5	9
73	Direct patterning of conductive carbon nanotube/polystyrene sulfonate composites via electrohydrodynamic jet printing for use in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4912-4919	7.1	35
72	Electrohydrodynamic printing for scalable MoS ₂ flake coating: application to gas sensing device. <i>Nanotechnology</i> , 2016 , 27, 435501	3.4	17
71	Optimization of electrohydrodynamic-printed organic electrodes for bottom-contact organic thin film transistors. <i>Organic Electronics</i> , 2016 , 38, 48-54	3.5	18
70	3D Hollow Framework Silver Nanowire Electrodes for High-Performance Bottom-Contact Organic Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14272-8	9.5	18
69	Branched Segments in Polymer Gate Dielectric as Intrinsic Charge Trap Sites in Organic Transistors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7670-7677	3.8	10
68	Realization of electrically stable organic field-effect transistors using simple polymer blended dielectrics. <i>Organic Electronics</i> , 2015 , 21, 111-116	3.5	16

67	Gate-Bias Stability Behavior Tailored by Dielectric Polymer Stereostructure in Organic Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25045-52	9.5	8
66	Optimization of nanocomposite gate insulators for organic thin film transistors. <i>Organic Electronics</i> , 2015 , 17, 144-150	3.5	12
65	Dielectric surface-polarity tuning and enhanced operation stability of solution-processed organic field-effect transistors. <i>Organic Electronics</i> , 2015 , 17, 87-93	3.5	14
64	Solvent boiling point affects the crystalline properties and performances of anthradithiophene-based devices. <i>Dyes and Pigments</i> , 2015 , 114, 60-68	4.6	9
63	Organic Semiconductors: Layer-by-Layer Conjugated Extension of a Semiconducting Polymer for High-Performance Organic Field-Effect Transistor (Adv. Funct. Mater. 25/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 3832-3832	15.6	
62	Impact of Energetically Engineered Dielectrics on Charge Transport in Vacuum-Deposited Bis(triisopropylsilylethynyl)pentacene. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28819-28827	3.8	12
61	Effect of solvent on electrical conductivity and gas sensitivity of PEDOT: PSS polymer composite films. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
60	Layer-by-Layer Conjugated Extension of a Semiconducting Polymer for High-Performance Organic Field-Effect Transistor. <i>Advanced Functional Materials</i> , 2015 , 25, 3833-3839	15.6	25
59	Fluorinated polymer-grafted organic dielectrics for organic field-effect transistors with low-voltage and electrical stability. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16791-7	3.6	11
58	Solution-processed n-type fullerene field-effect transistors prepared using CVD-grown graphene electrodes: improving performance with thermal annealing. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6635-43	3.6	11
57	Electrolyte-Gating Organic Thin Film Transistors 2015 , 253-274		1
56	Effects of semiconductor/dielectric interfacial properties on the electrical performance of top-gate organic transistors. <i>Organic Electronics</i> , 2014 , 15, 1299-1305	3.5	25
55	Grafting Fluorinated Polymer Nanolayer for Advancing the Electrical Stability of Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2014 , 26, 6467-6476	9.6	27
54	Aerosol jet printed p- and n-type electrolyte-gated transistors with a variety of electrode materials: exploring practical routes to printed electronics. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18704-18715	9.5	62
53	Fluorinated polyimide gate dielectrics for the advancing the electrical stability of organic field-effect transistors. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15209-16	9.5	37
52	Al ₂ O ₃ /TiO ₂ nanolaminate thin film encapsulation for organic thin film transistors via plasma-enhanced atomic layer deposition. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6731-8	9.5	148
51	The origin of excellent gate-bias stress stability in organic field-effect transistors employing fluorinated-polymer gate dielectrics. <i>Advanced Materials</i> , 2014 , 26, 7241-6	24	55
50	Critical factors to achieve low voltage- and capacitance-based organic field-effect transistors. <i>Advanced Materials</i> , 2014 , 26, 288-92	24	37

49	Organic Field-Effect Transistors: Critical Factors to Achieve Low Voltage- and Capacitance-Based Organic Field-Effect Transistors (Adv. Mater. 2/2014). <i>Advanced Materials</i> , 2014 , 26, 194-194	24	
48	Gastric liposarcoma presenting as a huge pedunculated polyp. <i>Endoscopy</i> , 2014 , 46 Suppl 1 UCTN, E441-3,4	5	
47	Charge transport and morphology of pentacene films confined in nano-patterned region. <i>NPG Asia Materials</i> , 2014 , 6, e91-e91	10.3	12
46	Organic Field-Effect Transistors: The Origin of Excellent Gate-Bias Stress Stability in Organic Field-Effect Transistors Employing Fluorinated-Polymer Gate Dielectrics (Adv. Mater. 42/2014). <i>Advanced Materials</i> , 2014 , 26, 7280-7280	24	
45	Aerosol jet printed, sub-2 V complementary circuits constructed from P- and N-type electrolyte gated transistors. <i>Advanced Materials</i> , 2014 , 26, 7032-7	24	77
44	Facile method for the environmentally friendly fabrication of reduced graphene oxide films assisted by a metal substrate and saline solution. <i>RSC Advances</i> , 2013 , 3, 14286	3-7	3
43	High-Performance n-Channel Thin-Film Field-Effect Transistors Based on a Nanowire-Forming Polymer. <i>Advanced Functional Materials</i> , 2013 , 23, 2060-2071	15.6	40
42	Highly stable fluorine-rich polymer treated dielectric surface for the preparation of solution-processed organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1272-1278	7-1	35
41	Inorganic/organic multilayer passivation incorporating alternating stacks of organic/inorganic multilayers for long-term air-stable organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 3385-3391	3-5	33
40	Electrolyte-gated transistors for organic and printed electronics. <i>Advanced Materials</i> , 2013 , 25, 1822-46	24	658
39	Performance and stability of aerosol-jet-printed electrolyte-gated transistors based on poly(3-hexylthiophene). <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6580-5	9-5	106
38	Printed, sub-2V ZnO electrolyte gated transistors and inverters on plastic. <i>Advanced Materials</i> , 2013 , 25, 3413-8	24	124
37	Complementary photo and temperature cured polymer dielectrics with high-quality dielectric properties for organic semiconductors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19940		12
36	Damage-free hybrid encapsulation of organic field-effect transistors to reduce environmental instability. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7731		32
35	High-performance triisopropylsilylethynyl pentacene transistors via spin coating with a crystallization-assisting layer. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 117-22	9-5	42
34	Photopatternable poly(4-styrene sulfonic acid)-wrapped MWNT thin-film source/drain electrodes for use in organic field-effect transistors. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 74-9	9-5	27
33	Physicochemically Stable Polymer-Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications. <i>Advanced Functional Materials</i> , 2011 , 21, 2198-2207	15.6	94
32	ORGANIC FIELD-EFFECT TRANSISTORS: Physicochemically Stable Polymer-Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications (Adv. Funct. Mater. 12/2011). <i>Advanced Functional Materials</i> , 2011 , 21, 2197-2197	15.6	1

31	Vertical Conducting Nanodomains Self-Assembled from Poly(3-hexyl thiophene)-Based Diblock Copolymer Thin Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4228-4234	3.8	31
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23	Dependence of pentacene crystal growth on dielectric roughness for fabrication of flexible field-effect transistors. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 391-6	9.5	46
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