Se Hyun Kim

List of Publications by Citations

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	Electrolyte-gated transistors for organic and printed electronics. *Advanced Materials*, **2013**, 25, 1822-46	24	658
173	Al2O3/TiO2 nanolaminate thin film encapsulation for organic thin film transistors via plasma-enhanced atomic layer deposition. *ACS Applied Materials & Interfaces*, **2014**, 6, 6731-8	9.5	148
172	Printed, sub-2V ZnO electrolyte gated transistors and inverters on plastic. *Advanced Materials*, **2013**, 25, 3413-8	24	124
171	Low-voltage pentacene field-effect transistors with ultrathin polymer gate dielectrics. *Applied Physics Letters*, **2006**, 88, 173507	3.4	113
170	Performance and stability of aerosol-jet-printed electrolyte-gated transistors based on poly(3-hexylthiophene). *ACS Applied Materials & Interfaces*, **2013**, 5, 6580-5	9.5	106
169	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, 43-9	9.5	98
168	Physicochemically Stable Polymer-Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications. *Advanced Functional Materials*, **2011**, 21, 2198-2207	15.6	94
167	Bending-stress-driven phase transitions in pentacene thin films for flexible organic field-effect transistors. *Applied Physics Letters*, **2008**, 92, 243305	3.4	93
166	Low-operating-voltage pentacene field-effect transistor with a high-dielectric-constant polymeric gate dielectric. *Applied Physics Letters*, **2006**, 89, 183516	3.4	81
165	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	3.5	79
164	Aerosol jet printed, sub-2 V complementary circuits constructed from P- and N-type electrolyte gated transistors. *Advanced Materials*, **2014**, 26, 7032-7	24	77
163	Reducing the contact resistance in organic thin-film transistors by introducing a PEDOT:PSS hole-injection layer. *Organic Electronics*, **2008**, 9, 864-868	3.5	72
162	Novel Eco-Friendly Starch Paper for Use in Flexible, Transparent, and Disposable Organic Electronics. *Advanced Functional Materials*, **2018**, 28, 1704433	15.6	67
161	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, 104509	2.5	64
160	High Tg Cyclic Olefin Copolymer Gate Dielectrics for N,N?-Ditridecyl Perylene Diimide Based Field-Effect Transistors: Improving Performance and Stability with Thermal Treatment. *Advanced Functional Materials*, **2010**, 20, 2611-2618	15.6	63
159	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, 18704-11	9.5	62
158	Photoinduced Recovery of Organic Transistor Memories with Photoactive Floating-Gate Interlayers. *ACS Applied Materials & Interfaces*, **2017**, 9, 11759-11769	9.5	56

157	The origin of excellent gate-bias stress stability in organic field-effect transistors employing fluorinated-polymer gate dielectrics. *Advanced Materials*, **2014**, 26, 7241-6	24	55
156	Effect of pentacene–dielectric affinity on pentacene thin film growth morphology in organic field-effect transistors. *Journal of Materials Chemistry*, **2010**, 20, 5612		55
155	Dual-Function Electrochromic Supercapacitors Displaying Real-Time Capacity in Color. *ACS Applied Materials & Interfaces*, **2018**, 10, 43993-43999	9.5	52
154	Hysteresis behaviour of low-voltage organic field-effect transistors employing high dielectric constant polymer gate dielectrics. *Journal Physics D: Applied Physics*, **2010**, 43, 465102	3	50
153	Dependence of pentacene crystal growth on dielectric roughness for fabrication of flexible field-effect transistors. *ACS Applied Materials & Interfaces*, **2010**, 2, 391-6	9.5	46
152	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	7.1	44
151	Electrostatic-Force-Assisted Dispensing Printing of Electrochromic Gels for Low-Voltage Displays. *ACS Applied Materials & Interfaces*, **2017**, 9, 18994-19000	9.5	43
150	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. *ACS Nano*, **2017**, 11, 3681-3689	16.7	43
149	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. *Scientific Reports*, **2016**, 6, 29805	4.9	43
148	High-performance triisopropylsilylethynyl pentacene transistors via spin coating with a crystallization-assisting layer. *ACS Applied Materials & Interfaces*, **2012**, 4, 117-22	9.5	42
147	Lower hole-injection barrier between pentacene and a 1-hexadecanethiol-modified gold substrate with a lowered work function. *Organic Electronics*, **2008**, 9, 21-29	3.5	42
146	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. *Advanced Materials*, **2016**, 28, 3209-15	24	42
145	Hysteresis-free pentacene field-effect transistors and inverters containing poly(4-vinyl phenol-co-methyl methacrylate) gate dielectrics. *Applied Physics Letters*, **2008**, 92, 183306	3.4	41
144	High-Performance n-Channel Thin-Film Field-Effect Transistors Based on a Nanowire-Forming Polymer. *Advanced Functional Materials*, **2013**, 23, 2060-2071	15.6	40
143	High-performance solution-processed triisopropylsilylethynyl pentacene transistors and inverters fabricated by using the selective self-organization technique. *Applied Physics Letters*, **2008**, 93, 113306	3.4	39
142	Direct Writing and Aligning of Small-Molecule Organic Semiconductor Crystals via "Dragging Mode" Electrohydrodynamic Jet Printing for Flexible Organic Field-Effect Transistor Arrays. *Journal of Physical Chemistry Letters*, **2017**, 8, 5492-5500	6.4	38
141	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. *ACS Applied Materials & Interfaces*, **2016**, 8, 5499-508	9.5	37
140	Fluorinated polyimide gate dielectrics for the advancing the electrical stability of organic field-effect transistors. *ACS Applied Materials & Interfaces*, **2014**, 6, 15209-16	9.5	37

139	Critical factors to achieve low voltage- and capacitance-based organic field-effect transistors. *Advanced Materials*, **2014**, 26, 288-92	24	37
138	Hysteresis-free organic field-effect transistors and inverters using photocrosslinkable poly(vinyl cinnamate) as a gate dielectric. *Applied Physics Letters*, **2008**, 92, 143306	3.4	36
137	Light-responsive spiropyran based polymer thin films for use in organic field-effect transistor memories. *Journal of Materials Chemistry C*, **2016**, 4, 5398-5406	7.1	35
136	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, 1042-9	3.6	35
135	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	7.1	35
134	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	7.1	35
133	Non-volatile, Li-doped ion gel electrolytes for flexible WO3-based electrochromic devices. *Materials and Design*, **2019**, 162, 45-51	8.1	34
132	Al 2 O 3 /TiO 2 nanolaminate gate dielectric films with enhanced electrical performances for organic field-effect transistors. *Organic Electronics*, **2016**, 28, 139-146	3.5	33
131	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	3.5	33
130	Damage-free hybrid encapsulation of organic field-effect transistors to reduce environmental instability. *Journal of Materials Chemistry*, **2012**, 22, 7731		32
129	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	9.5	32
128	Ultra-Low Power Electrochromic Heat Shutters Through Tailoring Diffusion-Controlled Behaviors. *ACS Applied Materials & Interfaces*, **2020**, 12, 30635-30642	9.5	31
127	Photo-Cross-Linkable Organic–Inorganic Hybrid Gate Dielectric for High Performance Organic Thin Film Transistors. *Journal of Physical Chemistry C*, **2016**, 120, 5790-5796	3.8	31
126	Vertical Conducting Nanodomains Self-Assembled from Poly(3-hexyl thiophene)-Based Diblock Copolymer Thin Films. *Journal of Physical Chemistry C*, **2011**, 115, 4228-4234	3.8	31
125	Effects of Poor Solvent for Solution-Processing Passivation of Organic Field Effect Transistors. *Journal of the Electrochemical Society*, **2010**, 157, H90	3.9	30
124	Extremely fast electrochromic supercapacitors based on mesoporous WO3 prepared by an evaporation-induced self-assembly. *NPG Asia Materials*, **2020**, 12,	10.3	30
123	Grafting Fluorinated Polymer Nanolayer for Advancing the Electrical Stability of Organic Field-Effect Transistors. *Chemistry of Materials*, **2014**, 26, 6467-6476	9.6	27
122	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, 74-9	9.5	27

121	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	9.5	26
120	Printed ion-gel transistor using electrohydrodynamic (EHD) jet printing process. *Organic Electronics*, **2018**, 52, 123-129	3.5	26
119	Electrohydrodynamic printing of poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) electrodes with ratio-optimized surfactant. *RSC Advances*, **2016**, 6, 2004-2010	3.7	26
118	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	3.5	26
117	An inkjet-printed passivation layer based on a photocrosslinkable polymer for long-term stable pentacene field-effect transistors. *Organic Electronics*, **2009**, 10, 67-72	3.5	26
116	Direct writing of silver nanowire electrodes via dragging mode electrohydrodynamic jet printing for organic thin film transistors. *Organic Electronics*, **2018**, 62, 357-365	3.5	25
115	Effects of semiconductor/dielectric interfacial properties on the electrical performance of top-gate organic transistors. *Organic Electronics*, **2014**, 15, 1299-1305	3.5	25
114	Layer-by-Layer Conjugated Extension of a Semiconducting Polymer for High-Performance Organic Field-Effect Transistor. *Advanced Functional Materials*, **2015**, 25, 3833-3839	15.6	25
113	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	4.9	24
112	Patterned transparent electrode with a continuous distribution of silver nanowires produced by an etching-free patterning method. *Scientific Reports*, **2017**, 7, 40087	4.9	23
111	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	3.5	23
110	Photo-curable polymer blend dielectrics for advancing organic field-effect transistor applications. *Advanced Materials*, **2010**, 22, 4809-13	24	23
109	Photopatternable, highly conductive and low work function polymer electrodes for high-performance n-type bottom contact organic transistors. *Organic Electronics*, **2011**, 12, 516-519	3.5	22
108	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, 20302-7	3.4	22
107	Mulberry paper-based graphene strain sensor for wearable electronics with high mechanical strength. *Sensors and Actuators A: Physical*, **2020**, 301, 111697	3.9	22
106	Unified film patterning and annealing of an organic semiconductor with micro-grooved wet stamps. *Journal of Materials Chemistry C*, **2016**, 4, 6996-7003	7.1	21
105	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	3.5	20
104	Photopatternable ultrathin gate dielectrics for low-voltage-operating organic circuits. *Applied Physics Letters*, **2009**, 95, 073302	3.4	20

103	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	3.5	20
102	The effect of surfactants on electrohydrodynamic jet printing and the performance of organic field-effect transistors. *Physical Chemistry Chemical Physics*, **2018**, 20, 1210-1220	3.6	20
101	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	3.4	19
100	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	7.1	19
99	Optimized low-temperature fabrication of WO3 films for electrochromic devices. *Journal Physics D: Applied Physics*, **2017**, 50, 465105	3	18
98	Cone-jet printing of aligned silver nanowire/poly(ethylene oxide) composite electrodes for organic thin-film transistors. *Organic Electronics*, **2019**, 69, 190-199	3.5	18
97	A New Architecture for Fibrous Organic Transistors Based on a Double-Stranded Assembly of Electrode Microfibers for Electronic Textile Applications. *Advanced Materials*, **2019**, 31, e1900564	24	18
96	3D Hollow Framework Silver Nanowire Electrodes for High-Performance Bottom-Contact Organic Transistors. *ACS Applied Materials & Interfaces*, **2015**, 7, 14272-8	9.5	18
95	A novel design of donor□cceptor polymer semiconductors for printed electronics: application to transistors and gas sensors. *Journal of Materials Chemistry C*, **2020**, 8, 8410-8419	7.1	18
94	Highly-impermeable Al2O3/HfO2 moisture barrier films grown by low-temperature plasma-enhanced atomic layer deposition. *Organic Electronics*, **2017**, 50, 296-303	3.5	18
93	Optimization of electrohydrodynamic-printed organic electrodes for bottom-contact organic thin film transistors. *Organic Electronics*, **2016**, 38, 48-54	3.5	18
92	Effects of polymer properties on jetting performance of electrohydrodynamic printing. *Journal of Applied Polymer Science*, **2017**, 134, 45044	2.9	17
91	A highly sensitive and stress-direction-recognizing asterisk-shaped carbon nanotube strain sensor. *Journal of Materials Chemistry C*, **2019**, 7, 9504-9512	7.1	17
90	Electrohydrodynamic (EHD) jet printing of carbon-black composites for solution-processed organic field-effect transistors. *Organic Electronics*, **2019**, 73, 279-285	3.5	17
89	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	9.5	17
88	Electrohydrodynamic printing for scalable MoS2 flake coating: application to gas sensing device. *Nanotechnology*, **2016**, 27, 435501	3.4	17
87	Engineering Asymmetric Charge Injection/Extraction to Optimize Organic Transistor Performances. *ACS Applied Materials & Interfaces*, **2019**, 11, 10108-10117	9.5	16
86	Realization of electrically stable organic field-effect transistors using simple polymer blended dielectrics. *Organic Electronics*, **2015**, 21, 111-116	3.5	16

85	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	9.5	16
84	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	6.7	15
83	All-organic solution-processed two-terminal transistors fabricated using the photoinduced p-channels. *Applied Physics Letters*, **2009**, 94, 043303	3.4	15
82	Photopatternable source/drain electrodes using multiwalled carbon nanotube/polymer nanocomposites for organic field-effect transistors. *ACS Applied Materials & Interfaces*, **2009**, 1, 2332-7	9.5	15
81	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	9.5	15
80	Dielectric surface-polarity tuning and enhanced operation stability of solution-processed organic field-effect transistors. *Organic Electronics*, **2015**, 17, 87-93	3.5	14
79	Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. *ACS Applied Materials & Interfaces*, **2020**, 12, 17799-17805	9.5	14
78	Highly stable flexible organic field-effect transistors with Parylene-C gate dielectrics on a flexible substrate. *Organic Electronics*, **2019**, 75, 105391	3.5	14
77	Advanced thin gas barriers film incorporating alternating structure of PEALD-based Al2O3/organic-inorganic nanohybrid layers. *Applied Surface Science*, **2019**, 475, 926-933	6.7	13
76	Scalable high-performance graphene paper with enhanced electrical and mechanical properties. *Thin Solid Films*, **2017**, 632, 50-54	2.2	12
75	A critical role of amphiphilic polymers in organic–inorganic hybrid sol–gel derived gate dielectrics for flexible organic thin-film transistors. *Journal of Materials Chemistry C*, **2019**, 7, 11612-11620	7.1	12
74	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	6.3	12
73	Optimization of nanocomposite gate insulators for organic thin film transistors. *Organic Electronics*, **2015**, 17, 144-150	3.5	12
72	Spray-coated transparent hybrid electrodes for high-performance electrochromic devices on plastic. *Organic Electronics*, **2018**, 62, 151-156	3.5	12
71	Impact of Energetically Engineered Dielectrics on Charge Transport in Vacuum-Deposited Bis(triisopropylsilylethynyl)pentacene. *Journal of Physical Chemistry C*, **2015**, 119, 28819-28827	3.8	12
70	Charge transport and morphology of pentacene films confined in nano-patterned region. *NPG Asia Materials*, **2014**, 6, e91-e91	10.3	12
69	Complementary photo and temperature cured polymer dielectrics with high-quality dielectric properties for organic semiconductors. *Journal of Materials Chemistry*, **2012**, 22, 19940		12
68	Engineering Aggregation-Resistant MXene Nanosheets As Highly Conductive and Stable Inks for All-Printed Electronics. *Advanced Functional Materials*, **2021**, 31, 2010897	15.6	12

67	Newly Synthesized Nonvacuum Processed High-k Polymeric Dielectrics with Carboxyl Functionality for Highly Stable Operating Printed Transistor Applications. *Advanced Functional Materials*, **2021**, 31, 2007304	15.6	12
66	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	3.3	12
65	Slot-die coating of sol–gel-based organic–inorganic nanohybrid dielectric layers for flexible and large-area organic thin film transistors. *Applied Surface Science*, **2020**, 529, 147198	6.7	11
64	Various Coating Methodologies of WO According to the Purpose for Electrochromic Devices. *Nanomaterials*, **2020**, 10,	5.4	11
63	(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	3.8	11
62	Printed Water-Based ITO Nanoparticle via Electrohydrodynamic (EHD) Jet Printing and Its Application of ZnO Transistors. *Electronic Materials Letters*, **2019**, 15, 595-604	2.9	11
61	Effect of solvent on electrical conductivity and gas sensitivity of PEDOT: PSS polymer composite films. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	11
60	Fluorinated polymer-grafted organic dielectrics for organic field-effect transistors with low-voltage and electrical stability. *Physical Chemistry Chemical Physics*, **2015**, 17, 16791-7	3.6	11
59	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, 6635-43	3.6	11
58	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	3.6	11
57	Comparison of semiconductor growth and charge transport on hydrophobic polymer dielectrics of organic field-effect transistors: Cytop vs. polystyrene. *Organic Electronics*, **2020**, 77, 105485	3.5	11
56	Printable Ultra-Flexible Fluorinated Organic–Inorganic Nanohybrid Sol–Gel Derived Gate Dielectrics for Highly Stable Organic Thin-Film Transistors and Other Practical Applications. *Advanced Functional Materials*, **2021**, 31, 2009539	15.6	11
55	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	9.5	10
54	Branched Segments in Polymer Gate Dielectric as Intrinsic Charge Trap Sites in Organic Transistors. *Journal of Physical Chemistry C*, **2015**, 119, 7670-7677	3.8	10
53	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	6.3	10
52	Colloidally stable organic–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	6.3	10
51	Strategy for Selective Printing of Gate Insulators Customized for Practical Application in Organic Integrated Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 1043-1056	9.5	10
50	Solvent boiling point affects the crystalline properties and performances of anthradithiophene-based devices. *Dyes and Pigments*, **2015**, 114, 60-68	4.6	9

49	Direct Printing of Asymmetric Electrodes for Improving Charge Injection/Extraction in Organic Electronics. *ACS Applied Materials & Interfaces*, **2020**, 12, 33999-34010	9.5	9
48	Tetrathiafulvalene: effective organic anodic materials for WO-based electrochromic devices.. *RSC Advances*, **2019**, 9, 19450-19456	3.7	9
47	Anomalous Ambipolar Transport of Organic Semiconducting Crystals via Control of Molecular Packing Structures. *ACS Applied Materials & Interfaces*, **2017**, 9, 27839-27846	9.5	9
46	Accelerated lifetime test based on general electrical principles for light-emitting electrochemical cells. *Organic Electronics*, **2016**, 34, 50-56	3.5	9
45	Effect of carbon nanotube addition on mechanical reliability of Ag nanowire network. *Materials Letters*, **2017**, 198, 202-205	3.3	8
44	Facile method for enhancing conductivity of printed carbon nanotubes electrode via simple rinsing process. *Organic Electronics*, **2017**, 47, 174-180	3.5	8
43	Gate-Bias Stability Behavior Tailored by Dielectric Polymer Stereostructure in Organic Transistors. *ACS Applied Materials & Interfaces*, **2015**, 7, 25045-52	9.5	8
42	Organic thin-film transistors with sub-10-micrometer channel length with printed polymer/carbon nanotube electrodes. *Organic Electronics*, **2018**, 52, 165-171	3.5	8
41	Dense Assembly of Soluble Acene Crystal Ribbons and Its Application to Organic Transistors. *ACS Applied Materials & Interfaces*, **2016**, 8, 24753-60	9.5	8
40	Exploring the ultrasonic nozzle spray-coating technique for the fabrication of solution-processed organic electronics. *Organic Electronics*, **2017**, 49, 212-217	3.5	8
39	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	9.5	7
38	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	6.7	7
37	New dithienophosphole-based donor□cceptor alternating copolymers: Synthesis and structure property relationships in OFET. *Dyes and Pigments*, **2016**, 125, 316-322	4.6	6
36	Hybrid flexible ambipolar thin-film transistors based on pentacene and ZnO capable of low-voltage operation. *Chinese Journal of Physics*, **2016**, 54, 471-474	3.5	6
35	Surface treatment of Parylene-C gate dielectric for highly stable organic field-effect transistors. *Organic Electronics*, **2019**, 69, 128-134	3.5	5
34	Gastric liposarcoma presenting as a huge pedunculated polyp. *Endoscopy*, **2014**, 46 Suppl 1 UCTN, E441-2	3.4	5
33	Novel triphenylamine containing poly-viologen for voltage-tunable multi-color electrochromic device. *Dyes and Pigments*, **2021**, 190, 109321	4.6	5
32	Photo-enhanced polymer memory device based on polyimide containing spiropyran. *Electronic Materials Letters*, **2016**, 12, 537-544	2.9	5

31	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	6.3	4
30	Parylene-based polymeric dielectric top-gate organic field-effect transistors exposed to a UV/ozone environment. *Organic Electronics*, **2020**, 87, 105942	3.5	4
29	Engineering the morphologies and charge transport properties of newly synthesized dibenzochrysene-based small molecules by attaching various side groups. *Dyes and Pigments*, **2016**, 130, 176-182	4.6	4
28	Electrohydrodynamic-Jet (EHD)-Printed Diketopyrrolopyroole-Based Copolymer for OFETs and Circuit Applications. *Polymers*, **2019**, 11,	4.5	4
27	Direct Patterned Zinc-Tin-Oxide for Solution-Processed Thin-Film Transistors and Complementary Inverter through Electrohydrodynamic Jet Printing. *Nanomaterials*, **2020**, 10,	5.4	4
26	Photocrosslinkable zinc diacrylate-based gate insulators for reliable operation of organic thin film transistors. *Organic Electronics*, **2018**, 59, 49-55	3.5	3
25	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. *Chinese Journal of Chemistry*, **2016**, 34, 1103-1108	4.9	3
24	Facile method for the environmentally friendly fabrication of reduced graphene oxide films assisted by a metal substrate and saline solution. *RSC Advances*, **2013**, 3, 14286	3.7	3
23	Dragging mode electrohydrodynamic jet printing of polymer-wrapped semiconducting single-walled carbon nanotubes for NO gas-sensing field-effect transistors. *Journal of Materials Chemistry C*,	7.1	3
22	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	9.5	3
21	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. *ACS Applied Electronic Materials*, **2021**, 3, 385-394	4	3
20	Inkjet Printing of Few-Layer Enriched Black Phosphorus Nanosheets for Electronic Devices. *Advanced Electronic Materials*, **2021**, 7, 2100577	6.4	3
19	Multicolor, dual-image, printed electrochromic displays based on tandem configuration. *Chemical Engineering Journal*, **2022**, 429, 132319	14.7	3
18	Isomeric effects of poly-viologens on electrochromic performance and applications in low-power electrochemical devices. *Solar Energy Materials and Solar Cells*, **2022**, 240, 111734	6.4	3
17	Reduced water vapor transmission rates of low-temperature solution-processed metal oxide barrier films via ultraviolet annealing. *Applied Surface Science*, **2017**, 414, 262-269	6.7	2
16	Sol?Gel-Processed Organic?Inorganic Hybrid for Flexible Conductive Substrates Based on Gravure-Printed Silver Nanowires and Graphene. *Polymers*, **2019**, 11,	4.5	2
15	Solution-Processed Flexible Gas Barrier Films for Organic Field-Effect Transistors. *Macromolecular Research*, **2020**, 28, 782-788	1.9	2
14	The Hidden Potential of Polysilsesquioxane for High-k: Analysis of the Origin of its Dielectric Nature and Practical Low-Voltage-Operating Applications beyond the Unit Device. *Advanced Functional Materials*,2104030	15.6	2

13	Advanced Side-Impermeability Characteristics of Fluorinated Organic-Inorganic Nanohybrid Materials for Thin Film Encapsulation. *Macromolecular Research*, **2021**, 29, 313-320	1.9	2
12	Electrolyte-Gating Organic Thin Film Transistors **2015**, 253-274		1
11	ORGANIC FIELD-EFFECT TRANSISTORS: Physicochemically Stable Polymer-Coupled Oxide Dielectrics for Multipurpose Organic Electronic Applications (Adv. Funct. Mater. 12/2011). *Advanced Functional Materials*, **2011**, 21, 2197-2197	15.6	1
10	Tunable electrochromic behavior of biphenyl poly(viologen)-based ion gels in all-in-one devices. *Organic Electronics*, **2022**, 100, 106395	3.5	1
9	Facile and reliable route to ensure chemical-environmental stability of pen-printed organic transistors with blended polymer Semiconductor□nsulator. *Materials Chemistry and Physics*, **2021**, 263, 124346	4.4	1
8	Electrohydrodynamic-Printed Polyvinyl Alcohol-Based Gate Insulators for Organic Integrated Devices. *Advanced Engineering Materials*,2100900	3.5	1
7	Screen printing of silver nanoparticles on the source/drain electrodes of organic thin-film transistors. *Organic Electronics*, **2022**, 106, 106524	3.5	1
6	Electrohydrodynamic jet printing of small-molecule semiconductor crystals on chemically patterned surface for high-performance organic field-effect transistors. *Materials Chemistry and Physics*, **2022**, 126165	4.4	0
5	Maintaining effective mobility and enhancing reliability by using a blend system in solution-processed organic field-effect transistors. *Chinese Journal of Physics*, **2016**, 54, 347-351	3.5	
4	Organic Field-Effect Transistors: Critical Factors to Achieve Low Voltage- and Capacitance-Based Organic Field-Effect Transistors (Adv. Mater. 2/2014). *Advanced Materials*, **2014**, 26, 194-194	24	
3	Organic Semiconductors: Layer-by-Layer Conjugated Extension of a Semiconducting Polymer for High-Performance Organic Field-Effect Transistor (Adv. Funct. Mater. 25/2015). *Advanced Functional Materials*, **2015**, 25, 3832-3832	15.6	
2	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). *Advanced Materials*, **2014**, 26, 7280-7280	24	
1	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). *Advanced Materials*, **2016**, 28, 3034	24	