

Kilwon Cho

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.

334
papers

15,083
citations

68
h-index

110
g-index

360
ext. papers

16,944
ext. citations

11.5
avg, IF

6.81
L-index

#	Paper	IF	Citations
334	18.42% efficiency polymer solar cells enabled by terpolymer donors with optimal miscibility and energy levels. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7878-7887	13	7
333	High-fidelity skin-attachable acoustic sensor for realizing auditory electronic skin.. <i>Advanced Materials</i> , 2022 , e2109545	24	2
332	A High-Fidelity Skin-Attachable Acoustic Sensor for Realizing Auditory Electronic Skin (Adv. Mater. 21/2022). <i>Advanced Materials</i> , 2022 , 34, 2270161	24	
331	Cactus-Spine-Inspired Sweat-Collecting Patch for Fast and Continuous Monitoring of Sweat (Adv. Mater. 40/2021). <i>Advanced Materials</i> , 2021 , 33, 2170317	24	
330	Engineering counter-ion-induced disorder of a highly doped conjugated polymer for high thermoelectric performance. <i>Nano Energy</i> , 2021 , 90, 106604	17.1	6
329	Solutal-Marangoni-Flow-Mediated Growth of Patterned Highly Crystalline Organic Semiconductor Thin Film Via Gap-Controlled Bar Coating. <i>Advanced Functional Materials</i> , 2021 , 31, 2100196	15.6	9
328	Stable Bioelectric Signal Acquisition Using an Enlarged Surface-Area Flexible Skin Electrode. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1842-1851	4	6
327	Extended Thiazole-Containing Polymer Semiconductor for Balanced Charge-Carrier Mobilities. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000741	4.8	3
326	Stretchable Mesh-Patterned Organic Semiconducting Thin Films on Creased Elastomeric Substrates. <i>Advanced Functional Materials</i> , 2021 , 31, 2010870	15.6	5
325	Photomultiplication-Type Organic Photodetectors with Fast Response Enabled by the Controlled Charge Trapping Dynamics of Quantum Dot Interlayer. <i>Advanced Functional Materials</i> , 2021 , 31, 2102087	15.6	6
324	Energy-Filtered Acceleration of Charge-Carrier Transport in Organic Thermoelectric Nanocomposites. <i>Chemistry of Materials</i> , 2021 , 33, 4853-4862	9.6	6
323	Graphene Nanoribbon Grids of Sub-10 nm Widths with High Electrical Connectivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28593-28599	9.5	2
322	Charge Recycling Mechanism Through a Triplet Charge-Transfer State in Ternary-Blend Organic Solar Cells Containing a Nonfullerene Acceptor. <i>ACS Energy Letters</i> , 2021 , 6, 2610-2618	20.1	5
321	Organic small-molecule heterointerface for use in transistor-type non-volatile memory. <i>Organic Electronics</i> , 2021 , 93, 106107	3.5	3
320	Cu-Phosphorus Eutectic Solid Solution for Growth of Multilayer Graphene with Widely Tunable Doping. <i>Advanced Functional Materials</i> , 2021 , 31, 2006499	15.6	0
319	Atomically Smooth Graphene-Based Hybrid Template for the Epitaxial Growth of Organic Semiconductor Crystals. <i>Advanced Functional Materials</i> , 2021 , 31, 2008813	15.6	3
318	Elucidating the photoluminescence-enhancement mechanism in a push-pull conjugated polymer induced by hot-electron injection from gold nanoparticles. <i>Photonics Research</i> , 2021 , 9, 131	6	3

317	Structural influence of a dichalcogenopheno-1,3,4-chalcogenodiazole comonomer on the optoelectronic properties of diketopyrrolopyrrole-based conjugated polymers. <i>Polymer Chemistry</i> , 2021 , 12, 1758-1767	4.9	
316	Fingerpad-Inspired Multimodal Electronic Skin for Material Discrimination and Texture Recognition. <i>Advanced Science</i> , 2021 , 8, 2002606	13.6	22
315	Charge Trapping in a Low-Crystalline High-Mobility Conjugated Polymer and Its Effects on the Operational Stability of Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16722-16731	9.5	7
314	Enhancing Thermoelectric Power Factor of 2D Organometal Halide Perovskites by Suppressing 2D/3D Phase Separation. <i>Advanced Materials</i> , 2021 , 33, e2102797	24	3
313	Organic Semiconductors: Solutal-Marangoni-Flow-Mediated Growth of Patterned Highly Crystalline Organic Semiconductor Thin Film Via Gap-Controlled Bar Coating (Adv. Funct. Mater. 28/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170200	15.6	1
312	Surface Stabilization of a Formamidinium Perovskite Solar Cell Using Quaternary Ammonium Salt. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37052-37062	9.5	5
311	Cactus-Spine-Inspired Sweat-Collecting Patch for Fast and Continuous Monitoring of Sweat. <i>Advanced Materials</i> , 2021 , 33, e2102740	24	21
310	Enhancing air-stability and reproducibility of lead-free formamidinium-based tin perovskite solar cell by chlorine doping. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 227, 111072	6.4	6
309	Understanding and Countering Illumination-Sensitive Dark Current: Toward Organic Photodetectors with Reliable High Detectivity. <i>ACS Nano</i> , 2021 , 15, 1753-1763	16.7	16
308	Three-Dimensional Tungsten Disulfide Raman Biosensor for Dopamine Detection.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 7687-7695	4.1	1
307	Anisotropy of Charge Transport in a Uniaxially Aligned Fused Electron-Deficient Polymer Processed by Solution Shear Coating. <i>Advanced Materials</i> , 2020 , 32, e2000063	24	18
306	High absorption coefficient π -conjugation-extended donor-acceptor copolymers for ternary-blend solar cells. <i>Organic Electronics</i> , 2020 , 83, 105738	3.5	13
305	Nanoscale Molecular Building Blocks for Layer-by-Layer Assembly. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000522	4.6	3
304	Direct CVD Growth of a Graphene/MoS ₂ Heterostructure with Interfacial Bonding for Two-Dimensional Electronics. <i>Chemistry of Materials</i> , 2020 , 32, 4544-4552	9.6	25
303	The Origin of Photoinduced Capacitance in Perovskite Solar Cells: Beyond Ionic-to-Electronic Current Amplification. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000030	6.4	6
302	Growth of Multilayer Graphene with a Built-in Vertical Electric Field. <i>Chemistry of Materials</i> , 2020 , 32, 5142-5152	9.6	3
301	Omnidirectionally Stretchable Metal Films with Preformed Radial Nanocracks for Soft Electronics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7192-7200	5.6	2
300	User-Interactive Thermotherapeutic Electronic Skin Based on Stretchable Thermochromic Strain Sensor. <i>Advanced Science</i> , 2020 , 7, 2001184	13.6	33

299	Organic Semiconductors: Charge-Transfer-Controlled Growth of Organic Semiconductor Crystals on Graphene (Adv. Sci. 6/2020). <i>Advanced Science</i> , 2020 , 7, 2070031	13.6	78
298	Bandgap Tailored Nonfullerene Acceptors for Low-Energy-Loss Near-Infrared Organic Photovoltaics 2020 , 2, 395-402		23
297	Improved Chemical Stability of Organometal Halide Perovskite Solar Cells Against Moisture and Heat by Ag Doping. <i>ChemSusChem</i> , 2020 , 13, 3261-3268	8.3	8
296	Acceptor-Donor-Acceptor molecule processed using polar non-halogenated solvents for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6496-6502	7.1	1
295	Design of narrow bandgap non-fullerene acceptors for photovoltaic applications and investigation of non-geminate recombination dynamics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15175-15182	7.1	19
294	Perovskite Granular Wire Photodetectors with Ultrahigh Photodetectivity. <i>Advanced Materials</i> , 2020 , 32, e2002357	24	18
293	Charge-Transfer-Controlled Growth of Organic Semiconductor Crystals on Graphene. <i>Advanced Science</i> , 2020 , 7, 1902315	13.6	14
292	Iontronic Graphene Tactile Sensors: Enhanced Sensitivity of Iontronic Graphene Tactile Sensors Facilitated by Spreading of Ionic Liquid Pinned on Graphene Grid (Adv. Funct. Mater. 14/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070089	15.6	1
291	Unraveling the Complex Nanomorphology of Ternary Organic Solar Cells with Multimodal Analytical Transmission Electron Microscopy. <i>Solar Rrl</i> , 2020 , 4, 2000114	7.1	4
290	A High-Performance Solution-Processed Organic Photodetector for Near-Infrared Sensing. <i>Advanced Materials</i> , 2020 , 32, e1906027	24	138
289	Excimer formation effects and trap-assisted charge recombination loss channels in organic solar cells of perylene diimide dimer acceptors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1686-1696	7.1	13
288	Improved charge transport in fused-ring bridged hemi-isoindigo-based small molecules by incorporating a thiophene unit for solution-processed organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1398-1404	7.1	6
287	Large-gain low-voltage and wideband organic photodetectors via unbalanced charge transport. <i>Materials Horizons</i> , 2020 , 7, 3234-3241	14.4	17
286	Open-circuit voltage of organic solar cells: Effect of energetically and spatially nonuniform distribution of molecular energy levels in the photoactive layer. <i>Nano Energy</i> , 2020 , 78, 105336	17.1	6
285	Extended donor-acceptor conjugated copolymers for use as hole transporting materials in perovskite solar cells. <i>Organic Electronics</i> , 2020 , 87, 105943	3.5	3
284	Size-Dependent Photovoltaic Performance of CdSe Supraquantum Dot/Polymer Hybrid Solar Cells: Goldilocks Problem Resolved by Tuning the Band Alignment Using Surface Ligands. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25775-25783	3.8	1
283	Enhanced Gas Sensing Properties of Graphene Transistor by Reduced Doping with Hydrophobic Polymer Brush as a Surface Modification Layer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55493-55500	9.5	10
282	Realizing Scalable Two-Dimensional MoS ₂ Synaptic Devices for Neuromorphic Computing. <i>Chemistry of Materials</i> , 2020 , 32, 10447-10455	9.6	11

281	Effects of Hydrogen on the Stacking Orientation of Bilayer Graphene Grown on Copper. <i>Chemistry of Materials</i> , 2020 , 32, 10357-10364	9.6	3
280	Perovskite Solar Cells: Molecular Engineering of Organic Spacer Cations for Efficient and Stable Formamidinium Perovskite Solar Cell (Adv. Energy Mater. 42/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070175	21.8	
279	Perovskite Photodetectors: Perovskite Granular Wire Photodetectors with Ultrahigh Photodetectivity (Adv. Mater. 32/2020). <i>Advanced Materials</i> , 2020 , 32, 2070238	24	3
278	Formation of Large Crystalline Domains in a Semiconducting Polymer with Semi-fluorinated Alkyl Side Chains and Application to High-Performance Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49886-49894	9.5	6
277	Alkylammonium-Intercalated 2D Mackinawite FeS as Electrode Materials for Rechargeable Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 9147-9154	9.6	1
276	Linear hybrid siloxane-based side chains for highly soluble isoindigo-based conjugated polymers. <i>Chemical Communications</i> , 2020 , 56, 11867-11870	5.8	9
275	Molecular Engineering of Organic Spacer Cations for Efficient and Stable Formamidinium Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2020 , 10, 2001759	21.8	25
274	Suppression of Oxidative Degradation of Tin-Lead Hybrid Organometal Halide Perovskite Solar Cells by Ag Doping. <i>ACS Energy Letters</i> , 2020 , 5, 3285-3294	20.1	18
273	Augmented Photoluminescence in a Conjugated Polymer by the Incorporation of CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20605-20613	3.8	
272	Azaisoindigo-Based Polymers with a Linear Hybrid Siloxane-Based Side Chain for High-Performance Semiconductors Processable with Nonchlorinated Solvents. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41832-41841	9.5	11
271	One-step synthesis of an acceptor-donor-acceptor small molecule based on indacenodithieno[3,2-b]thiophene and benzothiadiazole units for high-performance solution-processed organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14180-14185	7.1	1
270	Recent Advances in the Bias Stress Stability of Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 1904590	15.6	32
269	Hall Effect in Polycrystalline Organic Semiconductors: The Effect of Grain Boundaries. <i>Advanced Functional Materials</i> , 2020 , 30, 1903617	15.6	21
268	Enhanced Sensitivity of Iontronic Graphene Tactile Sensors Facilitated by Spreading of Ionic Liquid Pinned on Graphene Grid. <i>Advanced Functional Materials</i> , 2020 , 30, 1908993	15.6	20
267	Controlling Electrostatic Interaction in PEDOT:PSS to Overcome Thermoelectric Tradeoff Relation. <i>Advanced Functional Materials</i> , 2019 , 29, 1905590	15.6	31
266	End-on Chain Orientation of Poly(3-alkylthiophene)s on a Substrate by Microphase Separation of Lamellar Forming Amphiphilic Diblock Copolymer. <i>Macromolecules</i> , 2019 , 52, 6734-6740	5.5	9
265	Rational molecular design for isoindigo-based polymer semiconductors with high ductility and high electrical performance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11639-11649	7.1	8
264	Intergrain Connection of Organometal Halide Perovskites: Formation Mechanism and Its Effects on Optoelectrical Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7037-7045	9.5	5

263	Effect of Crystallization Modes in TIPS-pentacene/Insulating Polymer Blends on the Gas Sensing Properties of Organic Field-Effect Transistors. <i>Scientific Reports</i> , 2019 , 9, 21	4.9	41
262	Modulating charge transport characteristics of bis-azaisoindigo-based D π A conjugated polymers through energy level regulation and side chain optimization. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7618-7626	7.1	16
261	High Electron Mobility in [1]Benzothieno[3,2-b][1]benzothiophene-Based Field-Effect Transistors: Toward n-Type BTBTs. <i>Chemistry of Materials</i> , 2019 , 31, 5254-5263	9.6	37
260	An ultrathin conformable vibration-responsive electronic skin for quantitative vocal recognition. <i>Nature Communications</i> , 2019 , 10, 2468	17.4	53
259	Direct Growth of Substrate-Adhered Graphene on Flexible Polymer Substrates for Soft Electronics. <i>Chemistry of Materials</i> , 2019 , 31, 4451-4459	9.6	10
258	Negative Transconductance Heterojunction Organic Transistors and their Application to Full-Swing Ternary Circuits. <i>Advanced Materials</i> , 2019 , 31, e1808265	24	42
257	Improved Charge Transport and Reduced Non-Geminate Recombination in Organic Solar Cells by Adding Size-Selected Graphene Oxide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20183-20191	9.5	12
256	Universal Route to Impart Orthogonality to Polymer Semiconductors for Sub-Micrometer Tandem Electronics. <i>Advanced Materials</i> , 2019 , 31, e1901400	24	12
255	Side-Chain Engineering of Nonfullerene Acceptors for Near-Infrared Organic Photodetectors and Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1401-1409	20.1	106
254	Toward near-bulk resistivity of Cu for next-generation nano-interconnects: Graphene-coated Cu. <i>Carbon</i> , 2019 , 149, 656-663	10.4	6
253	Electroceutical Residue-Free Graphene Device for Dopamine Monitoring and Neural Stimulation. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2013-2020	5.5	4
252	Organic Soft Electronics: Heat-Assisted Photoacidic Oxidation Method for Tailoring the Surface Chemistry of Polymer Dielectrics for Low-Power Organic Soft Electronics (Adv. Funct. Mater. 11/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970071	15.6	2
251	Perovskite solar cells with an MoS ₂ electron transport layer. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7151-7158	13	66
250	Electric-Field-Tunable Growth of Organic Semiconductor Crystals on Graphene. <i>Nano Letters</i> , 2019 , 19, 1758-1766	11.5	9
249	Ternary Blend Strategy for Achieving High-Efficiency Organic Photovoltaic Devices for Indoor Applications. <i>Chemistry - A European Journal</i> , 2019 , 25, 6154-6161	4.8	26
248	Flexible Pressure-Sensitive Contact Transistors Operating in the Subthreshold Regime. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31111-31118	9.5	16
247	Organic Electronics: Universal Route to Impart Orthogonality to Polymer Semiconductors for Sub-Micrometer Tandem Electronics (Adv. Mater. 28/2019). <i>Advanced Materials</i> , 2019 , 31, 1970204	24	
246	Ternary Organic Solar Cells Based on a Wide-Bandgap Polymer with Enhanced Power Conversion Efficiencies. <i>Scientific Reports</i> , 2019 , 9, 12081	4.9	23

245	Quantifying the Nongeminate Recombination Dynamics in Nonfullerene Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901438	21.8	71
244	Effect of Hot-Electron Injection on the Excited-State Dynamics of a Hybrid Plasmonic System Containing Poly(3-hexylthiophene)-Coated Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26564-26570	3.8	3
243	Fused Heptacyclic-Based Acceptor-Donor-Acceptor Small Molecules: N-Substitution toward High-Performance Solution-Processable Field-Effect Transistors. <i>Chemistry of Materials</i> , 2019 , 31, 2027-2035	8.6	25
242	Motion-Programmed Bar-Coating Method with Controlled Gap for High-Speed Scalable Preparation of Highly Crystalline Organic Semiconductor Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47153-47161	9.5	13
241	Highly Conductive Flexible Metal-Ceramic Nanolaminate Electrode for High-Performance Soft Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2211-2217	9.5	5
240	Three-dimensional monolithic integration in flexible printed organic transistors. <i>Nature Communications</i> , 2019 , 10, 54	17.4	122
239	Heat-Assisted Photoacidic Oxidation Method for Tailoring the Surface Chemistry of Polymer Dielectrics for Low-Power Organic Soft Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1806030	15.6	10
238	Top-Split-Gate Ambipolar Organic Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 17005366.4	6.4	13
237	Enhancement of the Power-Conversion Efficiency of Organic Solar Cells via Unveiling an Appropriate Rational Design Strategy in Indacenodithiophene- alt-quinoxaline π -Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10236-10245	9.5	7
236	Direct Growth of Highly Stable Patterned Graphene on Dielectric Insulators using a Surface-Adhered Solid Carbon Source. <i>Advanced Materials</i> , 2018 , 30, e1706569	24	12
235	Controllable Bipolar Doping of Graphene with 2D Molecular Dopants. <i>Small</i> , 2018 , 14, e1703697	11	2
234	Tailoring Structure and Field-Effect Characteristics of Ultrathin Conjugated Polymer Films via Phase Separation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9602-9611	9.5	28
233	Graphene: Direct Growth of Highly Stable Patterned Graphene on Dielectric Insulators using a Surface-Adhered Solid Carbon Source (Adv. Mater. 15/2018). <i>Advanced Materials</i> , 2018 , 30, 1870108	24	3
232	An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte. <i>Advanced Materials</i> , 2018 , 30, e1706851	24	54
231	Molecular engineering of perylene-diimide-based polymer acceptors containing heteroacene units for all-polymer solar cells. <i>Organic Electronics</i> , 2018 , 58, 222-230	3.5	10
230	Chirality detection of amino acid enantiomers by organic electrochemical transistor. <i>Biosensors and Bioelectronics</i> , 2018 , 105, 121-128	11.8	47
229	Heat-Sink-Free Flexible Organic Thermoelectric Generator Vertically Operating with Chevron Structure. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700335	6.8	26
228	Unraveling the efficiency-limiting morphological issues of the perylene diimide-based non-fullerene organic solar cells. <i>Scientific Reports</i> , 2018 , 8, 2849	4.9	20

227	Nanopatched Graphene with Molecular Self-Assembly Toward Graphene-Organic Hybrid Soft Electronics. <i>Advanced Materials</i> , 2018 , 30, e1706480	24	16
226	Accurate Extraction of Charge Carrier Mobility in 4-Probe Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707105	15.6	30
225	Exploiting π -Stacking for Stretchable Semiconducting Polymers. <i>Macromolecules</i> , 2018 , 51, 2572-2579	5.5	69
224	Synthesis of Atomically Thin Transition Metal Ditelluride Films by Rapid Chemical Transformation in Solution Phase. <i>Chemistry of Materials</i> , 2018 , 30, 2463-2473	9.6	15
223	Nonfullerene/Fullerene Acceptor Blend with a Tunable Energy State for High-Performance Ternary Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25570-25579	9.5	23
222	Design of Nonfullerene Acceptors with Near-Infrared Light Absorption Capabilities. <i>Advanced Energy Materials</i> , 2018 , 8, 1801209	21.8	79
221	Tuning the Energy Levels of Aza-Heterocycle-Based Polymers for Long-Term n-Channel Bottom-Gate/Top-Contact Polymer Transistors. <i>Macromolecules</i> , 2018 , 51, 5704-5712	5.5	11
220	Visualization and Investigation of Charge Transport in Mixed-Halide Perovskite via Lateral-Structured Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2018 , 28, 1804067	15.6	17
219	Bar-Coated Ultrathin Semiconductors from Polymer Blend for One-Step Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21510-21517	9.5	39
218	Recent Advances in Morphology Optimization for Organic Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, e1800453	24	136
217	Enhancing the power conversion efficiency of perovskite solar cells via the controlled growth of perovskite nanowires. <i>Nano Energy</i> , 2018 , 51, 192-198	17.1	48
216	Photoelectric Memory Effect in Graphene Heterostructure Field-Effect Transistors Based on Dual Dielectrics. <i>ACS Photonics</i> , 2018 , 5, 329-336	6.3	10
215	Effects of varying the lengths of the donor units in π -extended thienothiophene isoindigo-based polymer semiconductors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9972-9980	7.1	7
214	Stretchable Polymer Gate Dielectric with Segmented Elastomeric Network for Organic Soft Electronics. <i>Chemistry of Materials</i> , 2018 , 30, 6353-6360	9.6	19
213	Pressure/Temperature Sensing Bimodal Electronic Skin with Stimulus Discriminability and Linear Sensitivity. <i>Advanced Materials</i> , 2018 , 30, e1803388	24	158
212	Thin-Film Transistors: Top-Split-Gate Ambipolar Organic Thin-Film Transistors (Adv. Electron. Mater. 5/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870027	6.4	
211	Sensors: An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte (Adv. Mater. 20/2018). <i>Advanced Materials</i> , 2018 , 30, 1870140	24	
210	1D versus 2D Growth of Soluble Acene Crystals from Soluble Acene/Polymer Blends Governed by a Residual Solvent Reservoir in a Phase-Separated Polymer Matrix. <i>Advanced Functional Materials</i> , 2018 , 28, 1802875	15.6	14

209	Copper-Vapor-Assisted Growth and Defect-Healing of Graphene on Copper Surfaces. <i>Small</i> , 2018 , 14, e1801181	11	11
208	Fluorine-functionalization of an isoindoline-1,3-dione-based conjugated polymer for organic solar cells. <i>Organic Electronics</i> , 2018 , 59, 247-252	3.5	9
207	Bandgap Narrowing in Non-Fullerene Acceptors: Single Atom Substitution Leads to High Optoelectronic Response Beyond 1000 nm. <i>Advanced Energy Materials</i> , 2018 , 8, 1801212	21.8	86
206	Control of Concentration of Nonhydrogen-Bonded Hydroxyl Groups in Polymer Dielectrics for Organic Field-Effect Transistors with Operational Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24055-24063	9.5	25
205	Effect of donor-acceptor molecular orientation on charge photogeneration in organic solar cells. <i>NPG Asia Materials</i> , 2018 , 10, 469-481	10.3	29
204	Precise Side-Chain Engineering of Thienylenevinylene-Benzotriazole-Based Conjugated Polymers with Coplanar Backbone for Organic Field Effect Transistors and CMOS-like Inverters. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2758-2766	9.5	34
203	Predicting the Morphology of Perovskite Thin Films Produced by Sequential Deposition Method: A Crystal Growth Dynamics Study. <i>Chemistry of Materials</i> , 2017 , 29, 1165-1174	9.6	24
202	One-Step Interface Engineering for All-Inkjet-Printed, All-Organic Components in Transparent, Flexible Transistors and Inverters: Polymer Binding. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8819-8829 ²⁹	9.5	29
201	Graphene as a metal passivation layer: Corrosion-accelerator and inhibitor. <i>Carbon</i> , 2017 , 116, 232-239	10.4	29
200	One-Step Solution Phase Growth of Transition Metal Dichalcogenide Thin Films Directly on Solid Substrates. <i>Advanced Materials</i> , 2017 , 29, 1700291	24	26
199	Synergistic effects of an alkylthieno[3,2-b]thiophene bridging backbone extension on the photovoltaic performances of donor-acceptor copolymers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10269-10279	13	18
198	Enhancing the Durability and Carrier Selectivity of Perovskite Solar Cells Using a Blend Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18103-18112	9.5	25
197	Surface-Mediated Solidification of a Semiconducting Polymer during Time-Controlled Spin-Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9871-9879	9.5	24
196	Bistable Solid-State Fluorescence Switching in Photoluminescent, Infinite Coordination Polymers. <i>Chemistry - A European Journal</i> , 2017 , 23, 10017-10022	4.8	6
195	Coplanar Donor-Acceptor Semiconducting Copolymers to Achieve Better Conjugated Structures: Side-Chain Engineering. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700135	2.6	3
194	Comparative Study of Antimony Doping Effects on the Performance of Solution-Processed ZIO and ZTO Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10904-10913	9.5	10
193	Bis(2-oxo-7-azaindolin-3-ylidene)benzodifuran-dione-based donor-acceptor polymers for high-performance n-type field-effect transistors. <i>Polymer Chemistry</i> , 2017 , 8, 2381-2389	4.9	13
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188	Critical assessment of charge mobility extraction in FETs. <i>Nature Materials</i> , 2017 , 17, 2-7	27	443
187	Polarization-Dependent Photoinduced Bias-Stress Effect in Single-Crystal Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34153-34161	9.5	10
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182	Relationship between the dipole moment of self-assembled monolayers incorporated in graphene transistors and device electrical stabilities. <i>RSC Advances</i> , 2017 , 7, 27100-27104	3.7	21
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177	Tailoring Morphology and Structure of Inkjet-Printed Liquid-Crystalline Semiconductor/Insulating Polymer Blends for High-Stability Organic Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 3003-3011	15.6	34
176	Vertically Stacked Complementary Organic Field-Effect Transistors and Logic Circuits Fabricated by Inkjet Printing. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600046	6.4	24
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