

# Jeong Ho 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.

288  
papers

13,170  
citations

57  
h-index

105  
g-index

303  
ext. papers

15,004  
ext. citations

10.3  
avg, IF

6.71  
L-index

#	Paper	IF	Citations
288	Commensurate Assembly of C on Black Phosphorus for Mixed-Dimensional van der Waals Transistors.. <i>Small</i> , <b>2022</b> , e2105916	11	0
287	Electroplated core-shell nanowire network electrodes for highly efficient organic light-emitting diodes.. <i>Nano Convergence</i> , <b>2022</b> , 9, 1	9.2	4
286	Stress Dissipation Encoded Silk Fibroin Electrode for the Athlete-Beneficial Silk Bioelectronics.. <i>Advanced Science</i> , <b>2022</b> , e2105420	13.6	6
285	A general fruit acid chelation route for eco-friendly and ambient 3D printing of metals.. <i>Nature Communications</i> , <b>2022</b> , 13, 104	17.4	0
284	Enhanced band-filling effect in halide perovskites via hydrophobic conductive linkers. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100800	6.1	0
283	All-Solution-Processed Van der Waals Heterostructures for Wafer-Scale Electronics (Adv. Mater. 12/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270096	24	
282	Comb-type polymer-hybridized MXene nanosheets dispersible in arbitrary polar, nonpolar, and ionic solvents.. <i>Science Advances</i> , <b>2022</b> , 8, eabl5299	14.3	6
281	Deterministic Multimodal Perturbation Enables Neuromorphic-Compatible Signal Multiplexing <b>2022</b> , 4, 102-110		1
280	A comprehensive overview on alkaline phosphatase targeting and reporting assays. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 465, 214567	23.2	2
279	All Solution-Processed van der Waals Heterostructures for Wafer-Scale Electronics.. <i>Advanced Materials</i> , <b>2021</b> , e2106110	24	10
278	Area-Selective Chemical Doping on Solution-Processed MoS Thin-Film for Multi-Valued Logic Gates. <i>Nano Letters</i> , <b>2021</b> ,	11.5	5
277	Solution-Processed MoS Film with Functional Interfaces via Precursor-Assisted Chemical Welding. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12221-12229	9.5	9
276	Hysteresis Behavior of the Donor-Acceptor-Type Ambipolar Semiconductor for Non-Volatile Memory Applications. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	2
275	Multivalued Logic Gates: Recent Advances on Multivalued Logic Gates: A Materials Perspective (Adv. Sci. 8/2021). <i>Advanced Science</i> , <b>2021</b> , 8, 2170040	13.6	78
274	Large-Area TiCT-MXene Coating: Toward Industrial-Scale Fabrication and Molecular Separation. <i>ACS Nano</i> , <b>2021</b> , 15, 8860-8869	16.7	15
273	Fabrication of van der Waals heterostructures through direct growth of rhenium disulfide on van der Waals surfaces. <i>Applied Surface Science</i> , <b>2021</b> , 544, 148865	6.7	1
272	Artificial stimulus-response system capable of conscious response. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	18

271	Sensing with MXenes: Progress and Prospects. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005846	24	66
270	Mixed urushiol and laccol compositions in natural lacquers: Convenient evaluation method and its effect on the physicochemical properties of lacquer coatings. <i>Progress in Organic Coatings</i> , <b>2021</b> , 154, 106195	4.8	4
269	Multi-State Heterojunction Transistors Based on Field-Effect Tunneling-Transport Transitions. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101243	24	5
268	Monolithic Tandem Multicolor Image Sensor Based on Electrochromic Color-Radix Demultiplexing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102725	24	1
267	Inhomogeneous work-function hysteresis in chemical vapor deposition-grown graphene field-effect devices. <i>Carbon</i> , <b>2021</b> , 173, 594-599	10.4	3
266	High-Performance Perovskite-Based Blue Light-Emitting Diodes with Operational Stability by Using Organic Ammonium Cations as Passivating Agents. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005553	15.6	22
265	Rectifying optoelectronic memory based on WSe <sub>2</sub> /graphene heterostructures. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4952-4960	5.1	3
264	Cold-Trap-Mediated Broad Dynamic Photodetection in Graphene-Organic Hybrid Photonic Barristors. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 879-890	16.4	3
263	High-responsivity PtSe <sub>2</sub> photodetector enhanced by photogating effect. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 013103	3.4	8
262	Complementary Driving between 2D Heterostructures and Surface Functionalization for Surpassing Binary Logic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8692-8699	9.5	3
261	Electrically Adaptive and Shape-Changeable Invertible Microlens. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10397-10408	9.5	4
260	Biologically Plausible Artificial Synaptic Array: Replicating Ebbinghaus Memory Curve with Selective Attention. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007782	24	14
259	Recent Advances on Multivalued Logic Gates: A Materials Perspective. <i>Advanced Science</i> , <b>2021</b> , 8, 2004216	16.6	22
258	Tetrabranched Photo-Crosslinker Enables Micrometer-Scale Patterning of Light-Emitting Super Yellow for High-Resolution OLEDs. <i>ACS Photonics</i> , <b>2021</b> , 8, 2519-2528	6.3	1
257	Organic-inorganic hybrid perovskite electronics. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13347-13357	13.57	12
256	Schottky junction photodiode based on graphene/organic semiconductor heterostructure. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 89, 233-238	6.3	4
255	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. <i>Nature Communications</i> , <b>2020</b> , 11, 2874	17.4	42
254	Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17799-17805	9.5	14

253	2D MXene-TiO Core-Shell Nanosheets as a Data-Storage Medium in Memory Devices. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907633	24	48
252	Carbon nanotube ferroelectric random access memory cell based on omega-shaped ferroelectric gate. <i>Carbon</i> , <b>2020</b> , 162, 195-200	10.4	5
251	Universal three-dimensional crosslinker for all-photopatterned electronics. <i>Nature Communications</i> , <b>2020</b> , 11, 1520	17.4	24
250	Oxygen-Detecting Synaptic Device for Realization of Artificial Autonomic Nervous System for Maintaining Oxygen Homeostasis. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002653	24	15
249	Actively Operable Thermoresponsive Smart Windows for Reducing Energy Consumption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 33838-33845	9.5	15
248	Self-Healable Hydrogel-Liquid Metal Composite Platform Enabled by a 3D Printed Stamp for a Multimodular Sensor System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9824-9832	9.5	23
247	A multiple negative differential resistance heterojunction device and its circuit application to ternary static random access memory. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 654-662	10.8	32
246	Rational Band Engineering of an Organic Double Heterojunction for Artificial Synaptic Devices with Enhanced State Retention and Linear Update of Synaptic Weight. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10737-10745	9.5	9
245	Percolation-Limited Dual Charge Transport in Vertical pn Heterojunction Schottky Barrier Transistors. <i>Nano Letters</i> , <b>2020</b> , 20, 3585-3592	11.5	5
244	Transparent and Colorless Polyimides Containing Multiple Trifluoromethyl Groups as Gate Insulators for Flexible Organic Transistors with Superior Electrical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18739-18747	9.5	27
243	3D-Printed Sugar Scaffold for High-Precision and Highly Sensitive Active and Passive Wearable Sensors. <i>Advanced Science</i> , <b>2020</b> , 7, 1902521	13.6	17
242	Functionalized Organic Material Platform for Realization of Ternary Logic Circuit. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6119-6126	9.5	8
241	Aqueous-Alcohol-Processable High-Mobility Semiconducting Copolymers with Engineered Oligo(ethylene glycol) Side Chains. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1111-1119	9.6	15
240	Gate-Tunable Synaptic Dynamics of Ferroelectric-Coupled Carbon-Nanotube Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4707-4714	9.5	30
239	Color-Selective Schottky Barrier Modulation for Optoelectric Logic. <i>ACS Nano</i> , <b>2020</b> , 14, 16036-16045	16.7	7
238	Optoelectronic In-Ga-Zn-O Memtransistors for Artificial Vision System. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002325	15.6	24
237	Electroplated Silver-Nickel Core-Shell Nanowire Network Electrodes for Highly Efficient Perovskite Nanoparticle Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39479-39486	9.5	9
236	Double Negative Differential Resistance Device Based on Hafnium Disulfide/Pentacene Hybrid Structure. <i>Advanced Science</i> , <b>2020</b> , 7, 2000991	13.6	10

235	Influence of 3D morphology on the performance of all-polymer solar cells processed using environmentally benign nonhalogenated solvents. <i>Nano Energy</i> , <b>2020</b> , 77, 105106	17.1	6
234	p-CuInS /n-Polymer Semiconductor Heterojunction for Photoelectrochemical Hydrogen Evolution. <i>ChemSusChem</i> , <b>2020</b> , 13, 6651-6659	8.3	2
233	A-D-A Type Semiconducting Small Molecules with Bis(alkylsulfanyl)methylene Substituents and Control of Charge Polarity for Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41842-41851	9.5	9
232	Phase-Preferential blow-spun fabrics for wearable triboelectric nanogenerators and textile interactive interface. <i>Nano Energy</i> , <b>2020</b> , 77, 105262	17.1	35
231	Vertical organic synapse expandable to 3D crossbar array. <i>Nature Communications</i> , <b>2020</b> , 11, 4595	17.4	54
230	Multifunctional Self-Combustion Additives Strategy to Fabricate Highly Responsive Hybrid Perovskite Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41674-41686	9.5	6
229	Vertically Stacked CVD-Grown 2D Heterostructure for Wafer-Scale Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35444-35450	9.5	18
228	Large-Area MXene Electrode Array for Flexible Electronics. <i>ACS Nano</i> , <b>2019</b> , 13, 11392-11400	16.7	133
227	Intense-pulsed-UV-converted perhydropolysilazane gate dielectrics for organic field-effect transistors and logic gates. <i>RSC Advances</i> , <b>2019</b> , 9, 3169-3175	3.7	5
226	Wafer-scale and patternable synthesis of NbS <sub>2</sub> for electrodes of organic transistors and logic gates. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8599-8606	7.1	5
225	Remote Gating of Schottky Barrier for Transistors and Their Vertical Integration. <i>ACS Nano</i> , <b>2019</b> , 13, 7877-7885	16.7	8
224	Photogating in the Graphene-Dye-Graphene Sandwich Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23474-23481	9.5	11
223	Selectively Metallized 2D Materials for Simple Logic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18571-18579	9.5	8
222	Flexible and transparent graphene complementary logic gates. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 484-490	4.6	4
221	Ultralightweight Strain-Responsive 3D Graphene Network. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 9884-9893	3.8	4
220	Multifunctional Smart Textronics with Blow-Spun Nonwoven Fabrics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900025	15.6	41
219	2D-Organic Hybrid Heterostructures for Optoelectronic Applications. <i>Advanced Materials</i> , <b>2019</b> , 31, e1803831	18.3	46
218	Fingerprint-Inspired Conducting Hierarchical Wrinkles for Energy-Harvesting E-Skin. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903580	15.6	48

217	Design of Wavy Ag Microwire Array for Mechanically Stable, Multimodal Vibrational Haptic Interface. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902703	15.6	4
216	All-Inkjet-Printed Vertical Heterostructure for Wafer-Scale Electronics. <i>ACS Nano</i> , <b>2019</b> , 13, 8213-8221	16.7	8
215	Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. <i>Nano Energy</i> , <b>2019</b> , 66, 104095	17.1	55
214	Infrared study of carrier scattering mechanism in ion-gated graphene. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 083503	3.4	4
213	Synthesis, Molecular Packing, and Electrical Properties of New Regioisomeric n-type Semiconducting Molecules with Modification of Alkyl Substituents Position. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47170-47181	9.5	6
212	Scalable Two-Dimensional Lateral Metal/Semiconductor Junction Fabricated with Selective Synthetic Integration of Transition-Metal-Carbide (MoC)/-Dichalcogenide (MoS). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47190-47196	9.5	13
211	Heterogeneous Integration of 2D Materials: Recent Advances in Fabrication and Functional Device Applications. <i>Nano</i> , <b>2019</b> , 14, 1930009	1.1	8
210	Metal nanowire/polymer matrix hybrid layer for triboelectric nanogenerator. <i>Nano Energy</i> , <b>2019</b> , 58, 227-233	17.1	13
209	Organic field-effect transistors integrated with TiCT electrodes. <i>Nanoscale</i> , <b>2018</b> , 10, 5191-5197	7.7	23
208	Lead-Free Perovskite Nanocrystals for Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1573-1583	6.4	129
207	Solar Cells: Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization (Adv. Energy Mater. 10/2018). <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1870045	21.8	4
206	Ion-Gel-Gated Graphene Optical Modulator with Hysteretic Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1836-1845	9.5	25
205	Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702369	21.8	56
204	Generalized Scheme for High Performing Photodetectors with a p-Type 2D Channel Layer and n-Type Nanoparticles. <i>Small</i> , <b>2018</b> , 14, 1703065	11	14
203	Transparent and Self-Powered Multistage Sensation Matrix for Mechanosensation Application. <i>ACS Nano</i> , <b>2018</b> , 12, 254-262	16.7	63
202	Epitaxial Synthesis of Molybdenum Carbide and Formation of a MoC/MoS Hybrid Structure via Chemical Conversion of Molybdenum Disulfide. <i>ACS Nano</i> , <b>2018</b> , 12, 338-346	16.7	105
201	Tunable Charge Injection via Solution-Processed Reduced Graphene Oxide Electrode for Vertical Schottky Barrier Transistors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 636-643	9.6	24
200	Epitaxial-Growth-Induced Junction Welding of Silver Nanowire Network Electrodes. <i>ACS Nano</i> , <b>2018</b> , 12, 4894-4902	16.7	41

199	Photosensitive Graphene P-N Junction Transistors and Ternary Inverters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12897-12903	9.5	18
198	Metal-agglomeration-suppressed growth of MoS and MoSe films with small sulfur and selenium molecules for high mobility field effect transistor applications. <i>Nanoscale</i> , <b>2018</b> , 10, 15213-15221	7.7	7
197	Halide Perovskite Nanopillar Photodetector. <i>ACS Nano</i> , <b>2018</b> , 12, 8564-8571	16.7	46
196	Solvent-vapor-annealed ADA-type semicrystalline conjugated small molecules for flexible ambipolar field-effect transistors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5698-5706	7.1	18
195	Terahertz Metamaterials: Electrically Controllable Molecularization of Terahertz Meta-Atoms (Adv. Mater. 31/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870231	24	
194	Piezotronic graphene barristor: Efficient and interactive modulation of Schottky barrier. <i>Nano Energy</i> , <b>2018</b> , 50, 598-605	17.1	21
193	Electrically Controllable Molecularization of Terahertz Meta-Atoms. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802760	24	22
192	Proton-Conductor-Gated MoS <sub>2</sub> Transistors with Room Temperature Electron Mobility of >100 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4527-4535	9.6	20
191	Large-area niobium disulfide thin films as transparent electrodes for devices based on two-dimensional materials. <i>Nanoscale</i> , <b>2018</b> , 10, 1056-1062	7.7	32
190	High-Performance Triboelectric Nanogenerators Based on Electrospun Polyvinylidene Fluoride/Silver Nanowire Composite Nanofibers. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703778	15.6	168
189	Junction Welding Techniques for Metal Nanowire Network Electrodes. <i>Macromolecular Research</i> , <b>2018</b> , 26, 1066-1073	1.9	10
188	Optoelectronic Synapse Based on IGZO-Alkylated Graphene Oxide Hybrid Structure. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804397	15.6	171
187	Roll-to-roll redox-welding and embedding for silver nanowire network electrodes. <i>Nanoscale</i> , <b>2018</b> , 10, 18627-18634	7.7	12
186	Dicyanodistyrylbenzene-Based Copolymers for Ambipolar Organic Field-Effect Transistors with Well-Balanced Hole and Electron Mobilities. <i>Macromolecules</i> , <b>2018</b> , 51, 8258-8267	5.5	9
185	Impact of Terminal End-Group of Acceptor-Donor-Acceptor-type Small Molecules on Molecular Packing and Photovoltaic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39952-39961	9.5	14
184	Mechanosensation-Active Matrix Based on Direct-Contact Tribotronic Planar Graphene Transistor Array. <i>ACS Nano</i> , <b>2018</b> , 12, 9381-9389	16.7	36
183	Defect-Free Copolymer Gate Dielectrics for Gating MoS <sub>2</sub> Transistors. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12193-12199	3.8	12
182	Highly Sensitive and Reusable Membraneless Field-Effect Transistor (FET)-Type Tungsten Diselenide (WSe) Biosensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17639-17645	9.5	24

181	Capacitively Coupled Hybrid Ion Gel and Carbon Nanotube Thin-Film Transistors for Low Voltage Flexible Logic Circuits. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802610	15.6	28
180	Photoresponse of CsPbBr <sub>3</sub> and CsPbBr <sub>3</sub> Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 565-570	6.4	295
179	Ambipolar transport based on CVD-synthesized ReSe <sub>2</sub> . <i>2D Materials</i> , <b>2017</b> , 4, 025014	5.9	22
178	Ladder-type silsesquioxane copolymer gate dielectrics for gating solution-processed IGZO field-effect transistors. <i>Organic Electronics</i> , <b>2017</b> , 43, 41-46	3.5	7
177	Graphene Phototransistors Sensitized by Cu <sub>2</sub> Se Nanocrystals with Short Amine Ligands. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 5436-5443	3.8	11
176	Petal-Inspired Diffractive Grating on a Wavy Surface: Deterministic Fabrications and Applications to Colorizations and LED Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9935-9944	9.5	24
175	Large-Area CVD-Grown Sub-2 V ReS <sub>2</sub> Transistors and Logic Gates. <i>Nano Letters</i> , <b>2017</b> , 17, 2999-3005	11.5	52
174	Low-Voltage 2D Material Field-Effect Transistors Enabled by Ion Gel Capacitive Coupling. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4008-4013	9.6	12
173	Photoresponsive Transistors Based on a Dual Acceptor-Containing Low-Bandgap Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19011-19020	9.5	18
172	Light-transformable and -healable triboelectric nanogenerators. <i>Nano Energy</i> , <b>2017</b> , 38, 412-418	17.1	20
171	Large-Area Schottky Barrier Transistors Based on Vertically Stacked Graphene/Metal Oxide Heterostructures. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700651	15.6	21
170	Direct synthesis of large-area continuous ReS <sub>2</sub> films on a flexible glass at low temperature. <i>2D Materials</i> , <b>2017</b> , 4, 025057	5.9	24
169	Photoresponse of Physically Oxidized Graphene Sensitized by an Organic Dye. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 8188-8195	3.8	1
168	Gate- and Light-Tunable pn Heterojunction Microwire Arrays Fabricated via Evaporative Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3857-3864	9.5	4
167	Ultraclean and Direct Transfer of a Wafer-Scale MoS <sub>2</sub> Thin Film onto a Plastic Substrate. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603928	24	37
166	Schottky-Barrier-Controllable Graphene Electrode to Boost Rectification in Organic Vertical p-n Junction Photodiodes. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1704475	15.6	21
165	High-Performance Polymer Semiconductor-Based Nonvolatile Memory Cells with Nondestructive Read-Out. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24352-24357	3.8	5
164	Halide Welding for Silver Nanowire Network Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30779-30785	9.5	58



163	One-Transistor-One-Transistor (1T1T) Optoelectronic Nonvolatile MoS Memory Cell with Nondestructive Read-Out. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26357-26362	9.5	9
162	Low-voltage complementary inverters based on ion gel-gated ReS <sub>2</sub> and BP transistors. <i>FlatChem</i> , <b>2017</b> , 5, 33-39	5.1	6
161	Modulation of Quantum Tunneling via a Vertical Two-Dimensional Black Phosphorus and Molybdenum Disulfide p-n Junction. <i>ACS Nano</i> , <b>2017</b> , 11, 9143-9150	16.7	113
160	A Nonchlorinated Solvent-Processable Fluorinated Planar Conjugated Polymer for Flexible Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 28817-28827	9.5	15
159	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44678-44686	9.5	36
158	Structure-Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40503-40515	9.5	27
157	Roll-to-roll preparation of silver-nanowire transparent electrode and its application to large-area organic light-emitting diodes. <i>Organic Electronics</i> , <b>2017</b> , 41, 190-197	3.5	55
156	Photodiodes: Schottky-Barrier-Controllable Graphene Electrode to Boost Rectification in Organic Vertical PN Junction Photodiodes (Adv. Funct. Mater. 48/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1770286	15.6	1
155	Flexible and Mechanically Robust Organic Light-Emitting Diodes Based on Photopatternable Silver Nanowire Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 22012-22018	3.8	28
154	Multibit MoS Photoelectronic Memory with Ultrahigh Sensitivity. <i>Advanced Materials</i> , <b>2016</b> , 28, 9196-9204	24	105
153	Mechanically Robust Silver Nanowires Network for Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7717-7724	15.6	57
152	Organic Dye Graphene Hybrid Structures with Spectral Color Selectivity. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6593-6600	15.6	25
151	An Organic Vertical Field-Effect Transistor with Underside-Doped Graphene Electrodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 4803-10	24	64
150	Low-Voltage Complementary Electronics from Ion-Gel-Gated Vertical Van der Waals Heterostructures. <i>Advanced Materials</i> , <b>2016</b> , 28, 3742-8	24	70
149	A new rigid planar low band gap PTTDPP-DT-DTT polymer for organic transistors and performance improvement through the use of a binary solvent system. <i>Dyes and Pigments</i> , <b>2016</b> , 126, 138-146	4.6	14
148	Wafer-Scale Microwire Transistor Array Fabricated via Evaporative Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15543-50	9.5	5
147	Low-Band-Gap Polymer-Based Ambipolar Transistors and Inverters Fabricated Using a Flow-Coating Method. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13865-13872	3.8	13
146	Stretchable and Multimodal All Graphene Electronic Skin. <i>Advanced Materials</i> , <b>2016</b> , 28, 2601-8	24	385

145	Enhanced Raman Scattering of Rhodamine 6G Films on Two-Dimensional Transition Metal Dichalcogenides Correlated to Photoinduced Charge Transfer. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 180-187	9.6	88
144	MoS <sub>2</sub> -InGaZnO Heterojunction Phototransistors with Broad Spectral Responsivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8576-82	9.5	79
143	Ladder-Type Silsesquioxane Copolymer Gate Dielectrics for High-Performance Organic Transistors and Inverters. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3501-3508	3.8	19
142	Probing Out-of-Plane Charge Transport in Black Phosphorus with Graphene-Contacted Vertical Field-Effect Transistors. <i>Nano Letters</i> , <b>2016</b> , 16, 2580-5	11.5	106
141	Processing temperature control of a diketopyrrolopyrrole-alt-thieno[2,3-b]thiophene polymer for high-mobility thin-film transistors and polymer solar cells with high open-circuit voltages. <i>Polymer</i> , <b>2016</b> , 105, 79-87	3.9	3
140	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. <i>ACS Nano</i> , <b>2016</b> , 10, 11037-11043	16.7	26
139	Black phosphorus nonvolatile transistor memory. <i>Nanoscale</i> , <b>2016</b> , 8, 9107-12	7.7	34
138	Trap-induced photoresponse of solution-synthesized MoS <sub>2</sub> . <i>Nanoscale</i> , <b>2016</b> , 8, 9193-200	7.7	41
137	Graphene Transistors Gated by Salted Proton Conductor. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600128	7.4	10
136	Monolithic metal oxide transistors. <i>ACS Nano</i> , <b>2015</b> , 9, 4288-95	16.7	28
135	High performance of low band gap polymer-based ambipolar transistor using single-layer graphene electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6002-12	9.5	24
134	Atomically-thin molecular layers for electrode modification of organic transistors. <i>Nanoscale</i> , <b>2015</b> , 7, 14100-8	7.7	8
133	Well-Balanced Carrier Mobilities in Ambipolar Transistors Based on Solution-Processable Low Band Gap Small Molecules. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16414-16423	3.8	9
132	Pressure-induced chemical enhancement in Raman scattering from graphene/Rhodamine 6G/graphene sandwich structures. <i>Carbon</i> , <b>2015</b> , 89, 318-327	10.4	11
131	Hybrid structures of organic dye and graphene for ultrahigh gain photodetectors. <i>Carbon</i> , <b>2015</b> , 88, 165-172	7.2	48
130	Metallic Grid Electrode Fabricated via Flow Coating for High-Performance Flexible Piezoelectric Nanogenerators. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7802-7808	3.8	28
129	Positively-charged reduced graphene oxide as an adhesion promoter for preparing a highly-stable silver nanowire film. <i>Nanoscale</i> , <b>2015</b> , 7, 6798-804	7.7	49
128	Active Matrix Electronic Skin Strain Sensor Based on Piezopotential-Powered Graphene Transistors. <i>Advanced Materials</i> , <b>2015</b> , 27, 3411-7	24	239

127	On-demand doping of graphene by stamping with a chemically functionalized rubber lens. <i>ACS Nano</i> , <b>2015</b> , 9, 4354-61	16.7	14
126	Apparent pH sensitivity of solution-gated graphene transistors. <i>Nanoscale</i> , <b>2015</b> , 7, 7540-4	7.7	34
125	Multifunctional graphene optoelectronic devices capable of detecting and storing photonic signals. <i>Nano Letters</i> , <b>2015</b> , 15, 2542-7	11.5	98
124	Printed In-Ga-Zn-O drop-based thin-film transistors sintered using intensely pulsed white light. <i>RSC Advances</i> , <b>2015</b> , 5, 78655-78659	3.7	21
123	Size-tunable and scalable synthesis of uniform copper nanocrystals. <i>RSC Advances</i> , <b>2015</b> , 5, 2756-2761	3.7	7
122	High-performance perovskite-graphene hybrid photodetector. <i>Advanced Materials</i> , <b>2015</b> , 27, 41-6	24	651
121	Graphene-graphene oxide floating gate transistor memory. <i>Small</i> , <b>2015</b> , 11, 311-8	11	39
120	Electrolyte-gated graphene Schottky barrier transistors. <i>Advanced Materials</i> , <b>2015</b> , 27, 5875-81	24	43
119	Graphene Photodetectors: High Performance Perovskite-Graphene Hybrid Photodetector (Adv. Mater. 1/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 188-188	24	2
118	pn-Heterojunction effects of perylene tetracarboxylic diimide derivatives on pentacene field-effect transistor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2025-31	9.5	15
117	X-DNA origami-networked core-supported lipid stratum. <i>Langmuir</i> , <b>2015</b> , 31, 912-6	4	8
116	Wide-range controllable n-doping of molybdenum disulfide (MoS <sub>2</sub> ) through thermal and optical activation. <i>ACS Nano</i> , <b>2015</b> , 9, 2368-76	16.7	54
115	Electrolyte-Gating Organic Thin Film Transistors <b>2015</b> , 253-274		1
114	Robust multifunctional superhydrophobic organic/inorganic hybrid macroporous coatings and films. <i>Polymer</i> , <b>2014</b> , 55, 2661-2666	3.9	18
113	Water-gel for gating graphene transistors. <i>Nano Letters</i> , <b>2014</b> , 14, 2610-6	11.5	24
112	Polyol synthesis of silver nanostructures: Inducing the growth of nanowires by a heat-up process. <i>Chemical Physics Letters</i> , <b>2014</b> , 602, 10-15	2.5	21
111	Observation of the inverse giant piezoresistance effect in silicon nanomembranes probed by ultrafast terahertz spectroscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 6942-8	11.5	9
110	Graphene nano-floating gate transistor memory on plastic. <i>Nanoscale</i> , <b>2014</b> , 6, 15286-92	7.7	23

109	Synthesis of wafer-scale uniform molybdenum disulfide films with control over the layer number using a gas phase sulfur precursor. <i>Nanoscale</i> , <b>2014</b> , 6, 2821-6	7.7	153
108	Micropatterned single-walled carbon nanotube electrodes for use in high-performance transistors and inverters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9664-70	9.5	8
107	Dye-sensitized MoS <sub>2</sub> photodetector with enhanced spectral photoresponse. <i>ACS Nano</i> , <b>2014</b> , 8, 8285-91	16.7	217
106	Directed self-assembly of organic semiconductors via confined evaporative capillary flows for use in organic field-effect transistors. <i>Organic Electronics</i> , <b>2014</b> , 15, 2322-2327	3.5	8
105	Discontinuous pn-Heterojunction for Organic Thin Film Transistors. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18146-18152	3.8	12
104	Flexible and transparent metallic grid electrodes prepared by evaporative assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12380-7	9.5	111
103	A roll-to-roll welding process for planarized silver nanowire electrodes. <i>Nanoscale</i> , <b>2014</b> , 6, 11828-34	7.7	132
102	High crystalline dithienosilole-cored small molecule semiconductor for ambipolar transistor and nonvolatile memory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6589-97	9.5	29
101	Ultrathin organic solar cells with graphene doped by ferroelectric polarization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3299-304	9.5	79
100	Nanoscale management of molecular packing and orientation of small molecules by a combination of linear and branched alkyl side chains. <i>ACS Nano</i> , <b>2014</b> , 8, 5988-6003	16.7	40
99	Chemically tunable ultrathin silsesquiazane interlayer for n-type and p-type organic transistors on flexible plastic. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22807-14	9.5	9
98	Tailoring dispersion and aggregation of Au nanoparticles in the BHJ layer of polymer solar cells: plasmon effects versus electrical effects. <i>ChemSusChem</i> , <b>2014</b> , 7, 3452-8	8.3	11
97	Photo-patternable ion gel-gated graphene transistors and inverters on plastic. <i>Nanotechnology</i> , <b>2014</b> , 25, 014002	3.4	48
96	Versatile threshold voltage control of OTFTs via discontinuous pn-heterojunction formation. <i>Organic Electronics</i> , <b>2014</b> , 15, 3439-3444	3.5	7
95	Real-time x-ray scattering study of the initial growth of organic crystals on polymer brushes. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 154702	3.9	5
94	Transparent, low-power pressure sensor matrix based on coplanar-gate graphene transistors. <i>Advanced Materials</i> , <b>2014</b> , 26, 4735-40	24	160
93	Diketopyrrolopyrrole-based Small Molecule for Application in Solution Processed Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , <b>2014</b> , 598, 111-119	0.5	2
92	Transistor memory devices with large memory windows, using multi-stacking of densely packed, hydrophobic charge trapping metal nanoparticle array. <i>Nanotechnology</i> , <b>2014</b> , 25, 505604	3.4	11

91	Correlation between Crystallinity, Charge Transport, and Electrical Stability in an Ambipolar Polymer Field-Effect Transistor Based on Poly(naphthalene-alt-diketopyrrolopyrrole). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11479-11486	3.8	20
90	Temperature sensing behavior of poly(3,4-ethylenedioxythiophene) thin film. <i>Synthetic Metals</i> , <b>2013</b> , 185-186, 52-55	3.6	3
89	Increased environmental stability of a tungsten bronze NIR-absorbing window. <i>Fibers and Polymers</i> , <b>2013</b> , 14, 2077-2082	2	9
88	In/Ga-free, inkjet-printed charge transfer doping for solution-processed ZnO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9765-9	9.5	32
87	Wafer-scale patterning of reduced graphene oxide electrodes by transfer-and-reverse stamping for high performance OFETs. <i>Small</i> , <b>2013</b> , 9, 2817-25	11	15
86	The structural, optical and electrical characterization of high-performance, low-temperature and solution-processed alkali metal-doped ZnO TFTs. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 1383	7.1	31
85	Surface energy engineered, high-resolution micropatterning of solution-processed reduced graphene oxide thin films. <i>Advanced Materials</i> , <b>2013</b> , 25, 894-8	24	31
84	Large-scale organic nanowire lithography and electronics. <i>Nature Communications</i> , <b>2013</b> , 4, 1773	17.4	235
83	Electrical Transport through Single Nanowires of Dialkyl Perylene Diimide. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10743-10749	3.8	22
82	Alkyl Side Chain Length Modulates the Electronic Structure and Electrical Characteristics of Poly(3-alkylthiophene) Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11764-11769	3.8	16
81	Fabrication of stable electrospun TiO <sub>2</sub> nanorods for high-performance dye-sensitized solar cells. <i>Macromolecular Research</i> , <b>2013</b> , 21, 636-640	1.9	18
80	Organic field-effect transistor memory devices using discrete ferritin nanoparticle-based gate dielectrics. <i>Small</i> , <b>2013</b> , 9, 3784-91	11	56
79	Quantum confinement effects in transferrable silicon nanomembranes and their applications on unusual substrates. <i>Nano Letters</i> , <b>2013</b> , 13, 5600-7	11.5	41
78	Polyelectrolyte interlayer for ultra-sensitive organic transistor humidity sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 8591-6	9.5	39
77	Decoupling the Bias-Stress-Induced Charge Trapping in Semiconductors and Gate-Dielectrics of Organic Transistors Using a Double Stretched-Exponential Formula. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 690-696	15.6	34
76	Enhancing crystallinity of C <sub>60</sub> layer by thickness-control of underneath pentacene layer for high mobility C <sub>60</sub> /pentacene ambipolar transistors. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 043306	3.4	34
75	Photo-crosslinkable NIR-absorbing window with environmental stability. <i>Pigment and Resin Technology</i> , <b>2013</b> , 42, 170-174	1	0
74	Studies on the characteristics and durability of a vertical type organic transistor using indenofluorenedione derivatives as an N-type active material. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 8016-9	1.3	

73	Low-Temperature, solution-processed and alkali metal doped ZnO for high-performance thin-film transistors. <i>Advanced Materials</i> , <b>2012</b> , 24, 834-8	24	189
72	Crystalline nanostructure and morphology of TriF-IF-dione for high-performance stable n-type field-effect transistors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14617		5
71	Counterions-exchangeable, multifunctional polyelectrolyte fabrics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14656		7
70	Spontaneous reduction and dispersion of graphene nano-platelets with in situ synthesized hydrazine assisted by hexamethyldisilazane. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20477		8
69	Crystallinity-Controlled Naphthalene-alt-diketopyrrolopyrrole Copolymers for High-Performance Ambipolar Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 26204-26213	3.8	26
68	Importance of Solubilizing Group and Backbone Planarity in Low Band Gap Polymers for High Performance Ambipolar field-effect Transistors. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1316-1323	9.6	158
67	Surface Viscoelasticity of an Organic Interlayer Affects the Crystalline Nanostructure of an Organic Semiconductor and Its Electrical Performance. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21673-21678	3.8	6
66	Improvement of efficiency of polymer solar cell by incorporation of the planar shaped monomer in low band gap polymer. <i>Synthetic Metals</i> , <b>2012</b> , 162, 768-774	3.6	16
65	Coplanar-gate transparent graphene transistors and inverters on plastic. <i>ACS Nano</i> , <b>2012</b> , 6, 8646-51	16.7	104
64	Graphene-based flexible and stretchable thin film transistors. <i>Nanoscale</i> , <b>2012</b> , 4, 4870-82	7.7	125
63	Highly tunable charge transport in layer-by-layer assembled graphene transistors. <i>ACS Nano</i> , <b>2012</b> , 6, 2432-40	16.7	77
62	Silsesquiazane/organic polymer blends as organic-inorganic hybrid materials. <i>Fibers and Polymers</i> , <b>2012</b> , 13, 1113-1119	2	6
61	Characteristics of Vertical Type Organic Light Emitting Transistor Using IF-dione-F as an Active Layer and DMDCNQI as a n Type Buffer Layer. <i>Molecular Crystals and Liquid Crystals</i> , <b>2012</b> , 566, 87-93	0.5	
60	Electrospun smart fabrics that display pH-responsive tunable wettability. <i>Soft Matter</i> , <b>2012</b> , 8, 10238	3.6	33
59	Modulation of the heterogeneous senescence of human mesenchymal stem cells on chemically-modified surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2012</b> , 90, 36-40	6	3
58	Environmentally stable NIR-absorbing window. <i>Pigment and Resin Technology</i> , <b>2012</b> , 41, 311-315	1	1
57	Interface modification of cathode electrode using dimmethylidicyanoquinonediiimine as a charge transfer layer in organic photovoltaic cell. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 3543-6		1.3
56	Stretchable graphene transistors with printed dielectrics and gate electrodes. <i>Nano Letters</i> , <b>2011</b> , 11, 4642-6	11.5	326

55	High-Performance Stable-Type Indenofluorenone Field-Effect Transistors. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4038-4044	9.6	41
54	Enhanced electrical properties of reduced graphene oxide multilayer films by in-situ insertion of a TiO <sub>2</sub> layer. <i>ACS Nano</i> , <b>2011</b> , 5, 8884-91	16.7	49
53	Counterion-induced reversibly switchable transparency in smart windows. <i>ACS Nano</i> , <b>2011</b> , 5, 7397-403	16.7	29
52	Interpenetrating polymer network dielectrics for high-performance organic field-effect transistors. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6968		26
51	A polymer brush organic interlayer improves the overlying pentacene nanostructure and organic field-effect transistor performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15580		60
50	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13068		22
49	Application of Plywood with Water-Based Phenol-Formaldehyde Resin Impregnated Linerboards as Formwork for Concrete Structure. <i>Journal of Adhesion Science and Technology</i> , <b>2011</b> , 25, 169-178	2	
48	High-mobility low-temperature ZnO transistors with low-voltage operation. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 192115	3.4	102
47	High-performance flexible graphene field effect transistors with ion gel gate dielectrics. <i>Nano Letters</i> , <b>2010</b> , 10, 3464-6	11.5	350
46	Polymer Brush As a Facile Dielectric Surface Treatment for High-Performance, Stable, Soluble Acene-Based Transistors. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5377-5382	9.6	40
45	Robust superhydrophobic mats based on electrospun crystalline nanofibers combined with a silane precursor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 658-62	9.5	64
44	Self-Organization Characteristics of Soluble Pentacene on Wettability-Controlled Patterned Substrate for Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2329-2333	3.8	28
43	Superamphiphilic Janus fabric. <i>Langmuir</i> , <b>2010</b> , 26, 19159-62	4	52
42	Control of mesoscale and nanoscale ordering of organic semiconductors at the gate dielectric/semiconductor interface for organic transistors. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2549		93
41	Kinetic and thermodynamic analyses of adhesion of a peptide, Trp-Lys-Tyr-Met-Val-D-Met (WKYMVm), and human formyl peptide receptor (hFPR). <i>Biotechnology Letters</i> , <b>2010</b> , 32, 773-9	3	
40	Printed Sub-2 V Gel-Electrolyte-Gated Polymer Transistors and Circuits. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 587-594	15.6	166
39	Multifunctional hybrid fabrics with thermally stable superhydrophobicity. <i>Advanced Materials</i> , <b>2010</b> , 22, 2138-41	24	103
38	Selectively patterned highly conductive poly(3,4-ethylenedioxythiophene)-tosylate electrodes for high performance organic field-effect transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 233509	3.4	7

37	High field-effect mobility pentacene thin-film transistors with nanoparticle polymer composite/polymer bilayer insulators. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 183301	3-4	46
36	Effect of H <sub>2</sub> AuCl <sub>4</sub> Doping on the Contact Properties of Polymer Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, H312		3
35	Solubility-Induced Ordered Polythiophene Precursors for High-Performance Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1200-1206	15.6	190
34	Comparison of the Mobility-Carrier Density Relation in Polymer and Single-Crystal Organic Transistors Employing Vacuum and Liquid Gate Dielectrics. <i>Advanced Materials</i> , <b>2009</b> , 21, 2174-2179	24	128
33	Semiconductor-Dielectric Blends: A Facile All Solution Route to Flexible All-Organic Transistors. <i>Advanced Materials</i> , <b>2009</b> , 21, 4243-4248	24	113
32	Effect of curing conditions of a poly(4-vinylphenol)gate dielectric on the performance of a pentacene-based thin film transistor. <i>Macromolecular Research</i> , <b>2009</b> , 17, 436-440	1.9	8
31	Ion Gel-Gated Polymer Thin-Film Transistors: Operating Mechanism and Characterization of Gate Dielectric Capacitance, Switching Speed, and Stability. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8972-8981	3.8	287
30	Printable ion-gel gate dielectrics for low-voltage polymer thin-film transistors on plastic. <i>Nature Materials</i> , <b>2008</b> , 7, 900-6	27	959
29	Effect of the phase states of self-assembled monolayers on pentacene growth and thin-film transistor characteristics. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10556-64	16.4	199
28	Enhancement of Field-Effect Mobility and Stability of Poly(3-hexylthiophene) Field-Effect Transistors by Conformational Change. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1705-1710	3.8	39
27	Room-Temperature Self-Organizing Characteristics of Soluble Acene Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 560-565	15.6	36
26	Enhancement of Hole Injection in Organic TFTs by Ozone Treatment of Indium Tin Oxide Electrodes. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, H156		8
25	Energy-Level Alignment at Interfaces between Gold and Poly(3-hexylthiophene) Films with two Different Molecular Structures. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	2
24	Effects of Physical Treatment of ITO Electrodes on the Electrical Properties of Pentacene Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, H239		13
23	Effects of the permanent dipoles of self-assembled monolayer-treated insulator surfaces on the field-effect mobility of a pentacene thin-film transistor. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 132104	3-4	83
22	Change of molecular ordering in soluble acenes via solvent annealing and its effect on field-effect mobility. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 092105	3-4	72
21	Solution-processable pentacene microcrystal arrays for high performance organic field-effect transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 132106	3-4	129
20	Precise control of surface wettability of mixed monolayers using a simple wiping method. <i>Thin Solid Films</i> , <b>2006</b> , 515, 2079-2084	2.2	17



19	Enhancement of electron injection in polymer light-emitting diodes with a supramolecular insulating nanolayer on the bottom cathode. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 083508	3-4	5
18	Effects of metal penetration into organic semiconductors on the electrical properties of organic thin film transistors. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 132101	3-4	84
17	Reactive metal contact at indium tin oxide/self-assembled monolayer interfaces. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 102104	3-4	11
16	Enhancement of Electron Injection Using Reactive Self-Assembled Monolayer in Organic Electronic Devices. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, G147		6
15	Solvent effect of inkjet printed source/drain electrodes on electrical properties of polymer thin-film transistors. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 082102	3-4	79
14	Energy-Level Alignment at Interfaces Between Gold and Poly(3-hexylthiophene) Films with Two Different Molecular Structures. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, G317		36
13	Low-voltage and high-field-effect mobility organic transistors with a polymer insulator. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 072101	3-4	121
12	Effect of side chain length on molecular ordering and field-effect mobility in poly(3-alkylthiophene) transistors. <i>Organic Electronics</i> , <b>2006</b> , 7, 514-520	3-5	128
11	Stable superhydrophobic organic-inorganic hybrid films by electrostatic self-assembly. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20773-8	3-4	168
10	Control of the electrical and adhesion properties of metal/organic interfaces with self-assembled monolayers. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 171906	3-4	22
9	Influence of the dielectric constant of a polyvinyl phenol insulator on the field-effect mobility of a pentacene-based thin-film transistor. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 152105	3-4	73
8	Evaluation of the adhesion properties of inorganic materials with high surface energies. <i>Langmuir</i> , <b>2004</b> , 20, 10174-8	4	21
7	Exploiting poly(dimethylsiloxane)-modified tips to evaluate frictional behavior by friction force microscopy. <i>Langmuir</i> , <b>2004</b> , 20, 11499-503	4	9
6	Structure and Chain Orientation in Thin Films of Side-Chain Liquid Crystalline Polymers. <i>Langmuir</i> , <b>2003</b> , 19, 7021-7025	4	18
5	Switchable Tack in Side-Chain Liquid Crystalline Polymers. <i>Macromolecules</i> , <b>2003</b> , 36, 2009-2014	5-5	29
4	Risk-Perceptual and Feedback-Controlled Response System Based on NO <sub>2</sub> -Detecting Artificial Sensory Synapse. <i>Advanced Functional Materials</i> , 2112490	15.6	2
3	Gate-Deterministic Remote Doping Enables Highly Retentive Graphene-MXene Hybrid Memory Devices on Plastic. <i>Advanced Functional Materials</i> , 2111956	15.6	2
2	Enhancing Performance and Stability of Tin Halide Perovskite Light Emitting Diodes via Coordination Engineering of Lewis Acid-Base Adducts. <i>Advanced Functional Materials</i> , 2106974	15.6	9

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