

Youn Sang Kim

List of Publications by Year in Descending Order

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

177
papers

4,229
citations

35
h-index

54
g-index

186
ext. papers

4,764
ext. citations

9.4
avg, IF

5.48
L-index

#	Paper	IF	Citations
177	Nitrogen-doped MoS ₂ as a catalytic sulfur host for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022 , 439, 135568	14.7	2
176	Verification of Carrier Concentration-Dependent Behavior in Water-Infiltration-Induced Electricity Generation by Ionovoltaic Effect. <i>Small</i> , 2021 , 17, e2103448	11	1
175	Analysis of Interface Phenomena for High-Performance Dual-Stacked Oxide Thin-Film Transistors via Equivalent Circuit Modeling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51266-51278	9.5	3
174	Ionic Diffusion-Driven Ionovoltaic Transducer for Probing Ion-Molecular Interactions at Solid-Liquid Interface. <i>Advanced Science</i> , 2021 , 9, e2103038	13.6	4
173	Long-term stability in ECsPbI ₃ perovskite via an ultraviolet-curable polymer network. <i>Communications Materials</i> , 2021 , 2,	6	2
172	Strategies for High-Performance Amorphous Indium-Gallium-Zinc Oxide Schottky Contact via Defect-Induced Physical Interface Modification. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1864-1872	4	3
171	Nanometer-Thick Cs ₂ SnI ₆ Perovskite/Polyethylene Glycol Dimethacrylate Composite Films for Highly Stable Broad-Band Photodetectors. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5309-5318	5.6	4
170	Probing an Interfacial Ionic Pairing-Induced Molecular Dipole Effect in Ionovoltaic System.. <i>Small Methods</i> , 2021 , 5, e2100323	12.8	3
169	Evaporative electrical energy generation via diffusion-driven ion-electron-coupled transport in semiconducting nanoporous channel. <i>Nano Energy</i> , 2021 , 80, 105522	17.1	9
168	Precise Turn-On Voltage Control of MIOSM Thin-Film Diodes with Amorphous Indium-Gallium-Zinc Oxide. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 878-886	9.5	3
167	Advanced Li metal anode by fluorinated metathesis on conjugated carbon networks. <i>Energy and Environmental Science</i> , 2021 , 14, 940-954	35.4	5
166	Electron Density-Change in Semiconductor by Ion-Adsorption at Solid-Liquid Interface. <i>Advanced Materials</i> , 2021 , 33, e2007581	24	6
165	Conductive Polymer-Assisted Metal Oxide Hybrid Semiconductors for High-Performance Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8552-8562	9.5	3
164	Rectification Mechanism of a P-type Oxide-based Metal/Insulator/Oxide Semiconductor/Metal Thin-Film Diode. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3946-3952	4	0
163	Nonwoven rGO Fiber-Aramid Separator for High-Speed Charging and Discharging of Li Metal Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001479	21.8	23
162	Highly reliable quinone-based cathodes and cellulose nanofiber separators: toward eco-friendly organic lithium batteries. <i>Cellulose</i> , 2020 , 27, 6707-6717	5.5	5
161	Expanded graphite/copper oxide composite electrodes for cell kinetic balancing of lithium-ion capacitor. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154566	5.7	9

160	Oxygen Radical Control via Atmospheric Pressure Plasma Treatment for Highly Stable IGZO Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3135-3140	2.9	8
159	Highly transparent phototransistor based on quantum-dots and ZnO bilayers for optical logic gate operation in visible-light.. <i>RSC Advances</i> , 2020 , 10, 16404-16414	3.7	8
158	An in situ formed LiF protective layer on a Li metal anode with solvent-less cross-linking. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3282-3287	5.8	9
157	An organic/inorganic composite separator for preventing shuttle effect in lithium/sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3051-3057	5.8	4
156	The effect of Surface energy characterized functional group of self-assembled monolayer for enhancing electrical stability of oxide semiconductor thin film transistor. <i>Nanotechnology</i> , 2020 ,	3.4	5
155	Solventless thermal crosslinked polymer protective layer for high stable lithium metal batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 522-527	5.8	3
154	Cu ₂ O Nanowires Based Flexible Ionovoltaic Device for Droplet-Flow-Induced Electrical Energy Generation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1253-1259	6.1	5
153	Li Metal Anodes: Nonwoven rGO Fiber-Aramid Separator for High-Speed Charging and Discharging of Li Metal Anode (Adv. Energy Mater. 27/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070119	21.8	1
152	Optical and encapsulation properties of La(OH) ₃ /poly(urethane acrylate) composites. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123281	4.4	1
151	Identification of water-infiltration-induced electrical energy generation by ionovoltaic effect in porous CuO nanowire films. <i>Energy and Environmental Science</i> , 2020 , 13, 3432-3438	35.4	11
150	Atmospheric-pressure plasma treatment toward high-quality solution-processed aluminum oxide gate dielectric films in thin-film transistors. <i>Nanotechnology</i> , 2019 , 30, 495702	3.4	8
149	Natural Evaporation-Driven Ionovoltaic Electricity Generation. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1746-1751	4	19
148	Advanced measurement and diagnosis of the effect on the underlayer roughness for industrial standard metrology. <i>Scientific Reports</i> , 2019 , 9, 1018	4.9	10
147	Investigation on Resistivity-Dependent Behavior of Carbon-Composite-Based Paintable Ionovoltaic Device. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1059-1064	4	2
146	Densification process and mechanism of solution-processed amorphous indium zinc oxide thin films for high-performance thin film transistors. <i>Applied Physics Express</i> , 2019 , 12, 071004	2.4	3
145	Superconcentrated aqueous electrolyte and UV curable polymer composite as gate dielectric for high-performance oxide semiconductor thin-film transistors. <i>Applied Physics Letters</i> , 2019 , 114, 172903	3.4	4
144	Turn-On Voltage Shift of Metal/Insulator/Oxide Semiconductor Thin-Film Diode by Adding Schottky Diode in Reverse Direction. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 530-537	4	5
143	Investigation of Vertical Current Phenomena in the Insulator/Oxide Semiconductor Heterojunction Using XPS Analysis and an Atmospheric-Pressure Plasma Treatment System. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1698-1704	4	2

142	Characteristics of transparent encapsulation materials for OLEDs prepared from mesoporous silica nanoparticle-polyurethane acrylate resin composites. <i>Composites Part B: Engineering</i> , 2019 , 175, 107188 ¹⁰	13
141	Verification of Charge Transfer in Metal-Insulator-Oxide Semiconductor Diodes via Defect Engineering of Insulator. <i>Scientific Reports</i> , 2019 , 9, 10323	4.9 15
140	Reducing the Persistent Photoconductivity Effect in Zinc Oxide by Sequential Surface Ultraviolet Ozone and Annealing Treatments. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2655-2663	4 9
139	Ni-Particle-Embedded Bilayer Gel Polymer Electrolyte for Highly Stable Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8310-8318	6.1 4
138	Mobility boost up of hybrid TFT with solvent-free cross-linked polyurethane-ionic liquid gate dielectric. <i>Applied Physics Express</i> , 2019 , 12, 101004	2.4 1
137	Surface-Functionalized Interfacial Self-Assembled Monolayers as Copper Electrode Diffusion Barriers for Oxide Semiconductor Thin-Film Transistor. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 430-436 ⁴	14
136	A visible light detector based on a heterojunction phototransistor with a highly stable inorganic CsPbI ₃ Br ₃ perovskite and InGaZnO semiconductor double-layer. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14223-14231	7.1 23
135	Ionovoltic urea sensor. <i>Nano Energy</i> , 2019 , 57, 195-201	17.1 12
134	A Surface-Functionalized Ionovoltic Device for Probing Ion-Specific Adsorption at the Solid-Liquid Interface. <i>Advanced Materials</i> , 2019 , 31, e1806268	24 17
133	Solution-Grown Homo Junction Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4103-4110	9.5 14
132	Eco-friendly cross-linked polymeric dielectric material based on natural tannic acid. <i>Chemical Engineering Journal</i> , 2019 , 358, 170-175	14.7 15
131	Vertical Transport Control of Electrical Charge Carriers in Insulator/Oxide Semiconductor Hetero-structure. <i>Scientific Reports</i> , 2018 , 8, 5643	4.9 12
130	Nanoscale in situ detection of nucleation and growth of Li electrodeposition at various current densities. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4629-4635	13 16
129	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2091-2095	16.4 37
128	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. <i>Angewandte Chemie</i> , 2018 , 130, 2113-2117	3.6 4
127	Epitaxial-Growth-Induced Junction Welding of Silver Nanowire Network Electrodes. <i>ACS Nano</i> , 2018 , 12, 4894-4902	16.7 41
126	Copper nanowire/multi-walled carbon nanotube composites as all-nanowire flexible electrode for fast-charging/discharging lithium-ion battery. <i>Nano Research</i> , 2018 , 11, 769-779	10 34
125	A position-controllable external stage for critical dimension measurements via low-noise atomic force microscopy. <i>Ultramicroscopy</i> , 2018 , 194, 48-56	3.1 2

124	Highly stable lithium metal battery with an applied three-dimensional mesh structure interlayer. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15540-15545	13	23
123	Effective Atmospheric-Pressure Plasma Treatment toward High-Performance Solution-Processed Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30581-30586	9.5	27
122	Effects of process variables on aqueous-based AlO _x insulators for high-performance solution-processed oxide thin-film transistors. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 117-123	6.3	9
121	Solution-processed amorphous ZrO gate dielectric films synthesized by a non-hydrolytic sol-gel route.. <i>RSC Advances</i> , 2018 , 8, 39115-39119	3.7	7
120	Effects of Unusual Gate Current on the Electrical Properties of Oxide Thin-Film Transistors. <i>Scientific Reports</i> , 2018 , 8, 13905	4.9	11
119	A wearable piezoelectric bending motion sensor for simultaneous detection of bending curvature and speed. <i>RSC Advances</i> , 2017 , 7, 2520-2526	3.7	21
118	Lattice Transparency of Graphene. <i>Nano Letters</i> , 2017 , 17, 1711-1718	11.5	25
117	Curved copper nanowires-based robust flexible transparent electrodes via all-solution approach. <i>Nano Research</i> , 2017 , 10, 3077-3091	10	22
116	Nonlinear piezoelectric dual sensor for the detection of angle and radius of a bending deformation. <i>Nano Energy</i> , 2017 , 38, 232-238	17.1	11
115	A high-performance polymer composite electrolyte embedded with ionic liquid for all solid lithium based batteries operating at ambient temperature. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 52, 1-6	6.3	11
114	Strong Influence of Humidity on Low-Temperature Thin-Film Fabrication via Metal Aqua Complex for High Performance Oxide Semiconductor Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 548-557	9.5	27
113	A Specific Groove Pattern Can Effectively Induce Osteoblast Differentiation. <i>Advanced Functional Materials</i> , 2017 , 27, 1703569	15.6	18
112	Electricity modulation of a water motion active transducer via surface functionality control. <i>Nano Energy</i> , 2017 , 40, 447-453	17.1	12
111	Identification of Droplet-Flow-Induced Electric Energy on Electrolyte-Insulator-Semiconductor Structure. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10968-10971	16.4	35
110	Conduction mechanism change with transport oxide layer thickness in oxide hetero-interface diode. <i>Applied Physics Letters</i> , 2017 , 111, 053506	3.4	4
109	Redox-active ionic liquid electrolyte with multi energy storage mechanism for high energy density supercapacitor. <i>RSC Advances</i> , 2017 , 7, 55702-55708	3.7	18
108	Copper-embedded reduced graphene oxide fibers for multi-sensors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12825-12832	7.1	14
107	Graphene as a thin-film catalyst booster: graphene-catalyst interface plays a critical role. <i>Nanotechnology</i> , 2017 , 28, 495708	3.4	2

106	Analysis on characteristics of contact-area-dependent electric energy induced by ion sorption at solid-liquid interface. <i>Nano Energy</i> , 2017 , 42, 257-261	17.1	11
105	Synthesis of Copper Oxide/Graphite Composite for High-Performance Rechargeable Battery Anode. <i>Chemistry - A European Journal</i> , 2017 , 23, 11629-11635	4.8	8
104	A systematic study on effects of precursors and solvents for optimization of solution-processed oxide semiconductor thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7768-7776	7.1	33
103	Zinc Oxide Nanorod-Based Piezoelectric Dermal Patch for Wound Healing. <i>Advanced Functional Materials</i> , 2017 , 27, 1603497	15.6	72
102	Self-Healing Polymer Dielectric for a High Capacitance Gate Insulator. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23854-61	9.5	34
101	Solvent-Free and Highly Transparent SiO ₂ Nanoparticle-Polymer Composite with an Enhanced Moisture Barrier Property. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9433-9439	3.9	17
100	Self-reducible copper ion complex ink for air sinterable conductive electrodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10740-10746	7.1	25
99	All solid state flexible supercapacitors operating at 4 V with a cross-linked polymer-ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4386-4391	13	32
98	Bridging Oriented Copper Nanowire-Graphene Composites for Solution-Processable, Annealing-Free, and Air-Stable Flexible Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17334-41	9.5	35
97	Electro-optic switching with liquid crystal graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 397-403	2.5	8
96	Ultrathin Photo-Oxidized Siloxane Layer for Extreme Wettability: Anti-Fogging Layer for Spectacles. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500725	4.6	11
95	Photosensitivity of InZnO thin-film transistors using a solution process. <i>Applied Physics Letters</i> , 2016 , 109, 132105	3.4	23
94	Rose rock-shaped nano Cu ₂ O anchored graphene for high-performance supercapacitors via solvothermal route. <i>Journal of Power Sources</i> , 2016 , 318, 66-75	8.9	41
93	Fully Solution-Processed and Foldable Metal-Oxide Thin-Film Transistor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12894-900	9.5	21
92	Fabric Active Transducer Stimulated by Water Motion for Self-Powered Wearable Device. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24579-84	9.5	18
91	Synthesis of Cu ₃ Sn alloy nanocrystals through sequential reduction induced by gradual increase of the reaction temperature. <i>Chemistry - A European Journal</i> , 2015 , 21, 6690-4	4.8	6
90	Effects of Li doping on the negative bias stress stability of solution-processed ZnO thin film transistors. <i>RSC Advances</i> , 2015 , 5, 68392-68396	3.7	3
89	Effective work function modulation of SWCNT/AZO NP hybrid electrodes in fully solution-processed flexible metal-oxide thin film transistors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8121-8126	7.1	8

88	Enhanced electrochemical capabilities of lithium ion batteries by structurally ideal AAO separator. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10715-10719	13	32
87	Liquid electrolyte-free cylindrical Al polymer capacitor review: Materials and characteristics. <i>Journal of Power Sources</i> , 2015 , 284, 466-480	8.9	6
86	Soft contact transplanted nanocrystal quantum dots for light-emitting diodes: effect of surface energy on device performance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10828-33	9.5	22
85	Pressure-assisted electrode fabrication using simply synthesized Cu ₃ Sn alloy nanoparticles. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2773-2777	7.1	7
84	Direct electron injection into an oxide insulator using a cathode buffer layer. <i>Nature Communications</i> , 2015 , 6, 6785	17.4	20
83	Unidirectional oxide hetero-interface thin-film diode. <i>Applied Physics Letters</i> , 2015 , 107, 143506	3.4	1
82	Fluidic Active Transducer for Electricity Generation. <i>Scientific Reports</i> , 2015 , 5, 15695	4.9	24
81	Novel Synthesis, Coating, and Networking of Curved Copper Nanowires for Flexible Transparent Conductive Electrodes. <i>Small</i> , 2015 , 11, 4576-83	11	64
80	Enhancement of the outdoor stability of dye-sensitized solar cells by a spectrum conversion layer with 1,8-naphthalimide derivatives. <i>RSC Advances</i> , 2015 , 5, 32588-32593	3.7	11
79	A robust ionic liquid-polymer gate insulator for high-performance flexible thin film transistors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4239-4243	7.1	24
78	Influences of Surface and Ionic Properties on Electricity Generation of an Active Transducer Driven by Water Motion. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 745-9	6.4	40
77	Gate Capacitance-Dependent Field-Effect Mobility in Solution-Processed Oxide Semiconductor Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2014 , 24, 4689-4697	15.6	76
76	An effective energy harvesting method from a natural water motion active transducer. <i>Energy and Environmental Science</i> , 2014 , 7, 3279-3283	35.4	103
75	Aqueous zinc ammine complex for solution-processed ZnO semiconductors in thin film transistors. <i>RSC Advances</i> , 2014 , 4, 11295	3.7	26
74	Ultrathin self-powered artificial skin. <i>Energy and Environmental Science</i> , 2014 , 7, 3994-3999	35.4	30
73	Solution-processed amorphous hafnium-lanthanum oxide gate insulator for oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1050-1056	7.1	58
72	Facile formation of a micro-crater structure for light scattering in quasi-solid state dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 28133-28139	3.7	3
71	Facile synthesis of oxidation-resistant copper nanowires toward solution-processable, flexible, foldable, and free-standing electrodes. <i>Small</i> , 2014 , 10, 5047-52	11	58

70	A high efficiency dye-sensitized solar cell with a UV-cured polymer gel electrolyte and a nano-gel electrolyte double layer. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8529	13	10
69	High-power density piezoelectric energy harvesting using radially strained ultrathin trigonal tellurium nanowire assembly. <i>Advanced Materials</i> , 2013 , 25, 2920-5	24	124
68	Organic nonvolatile resistive switching memory based on molecularly entrapped fullerene derivative within a diblock copolymer nanostructure. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 355-61	4.8	35
67	Interface engineering for suppression of flat-band voltage shift in a solution-processed ZnO/polymer dielectric thin film transistor. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7742	7.1	15
66	Alkali earth metal dopants for high performance and aqueous-derived ZnO TFT. <i>RSC Advances</i> , 2013 , 3, 21339	3.7	3
65	Solution processable silica thin film coating on microporous substrate with high tortuosity: application to a battery separator. <i>RSC Advances</i> , 2013 , 3, 16708	3.7	10
64	Water adsorption effects of nitrate ion coordinated Al ₂ O ₃ dielectric for high performance metal-oxide thin-film transistor. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7166	7.1	56
63	Fabrication of a multidomain and ultrafast-switching liquid crystal alignment layer using contact printing with a poly(dimethylsiloxane) stamp. <i>Advanced Materials</i> , 2013 , 25, 1408-14	24	10
62	Micro-patterned ZnO semiconductors for high performance thin film transistors via chemical imprinting with a PDMS stamp. <i>Chemical Communications</i> , 2013 , 49, 2783-5	5.8	13
61	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> , 2013 , 1, 1383	7.1	31
60	UV-visible spectroscopic analysis of electrical properties in alkali metal-doped amorphous zinc tin oxide thin-film transistors. <i>Advanced Materials</i> , 2013 , 25, 2994-3000	24	78
59	All-solution-processed transparent thin film transistor and its application to liquid crystals driving. <i>Advanced Materials</i> , 2013 , 25, 3209-14	24	37
58	TiO ₂ -poly(4-vinylphenol) nanocomposite dielectrics for organic thin film transistors. <i>Organic Electronics</i> , 2013 , 14, 3406-3414	3.5	18
57	Effects of annealing temperature of aqueous solution-processed ZnO electron-selective layers on inverted polymer solar cells. <i>Organic Electronics</i> , 2013 , 14, 100-104	3.5	33
56	Fast, exact, and non-destructive diagnoses of contact failures in nano-scale semiconductor device using conductive AFM. <i>Scientific Reports</i> , 2013 , 3, 2088	4.9	13
55	Low-Temperature, solution-processed and alkali metal doped ZnO for high-performance thin-film transistors. <i>Advanced Materials</i> , 2012 , 24, 834-8	24	189
54	Micropatterned crystalline organic semiconductors via direct pattern transfer printing with PDMS stamp. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22763		13
53	Low temperature and solution-processed Na-doped zinc oxide transparent thin film transistors with reliable electrical performance using methanol developing and surface engineering. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23120		44

52	All-solution-processed flexible thin film piezoelectric nanogenerator. <i>Advanced Materials</i> , 2012 , 24, 6022-7	118
51	Hierarchically-structured artificial water-repellent leaf surfaces replicated from reusable anodized aluminum oxide. <i>Macromolecular Research</i> , 2012 , 20, 762-767	1.9 4
50	Effect of redox proteins on the behavior of non-volatile memory. <i>Chemical Communications</i> , 2012 , 48, 12008-10	5.8 9
49	Surface-plasmon-enhanced visible-light emission of ZnO/Ag grating structures. <i>Optics Express</i> , 2011 , 19, 5895-901	3.3 20
48	Patterning of Flexible Transparent Thin-Film Transistors with Solution-Processed ZnO Using the Binary Solvent Mixture. <i>Advanced Functional Materials</i> , 2011 , 21, 3546-3553	15.6 45
47	Simple fabrication of hydrophilic nanochannels using the chemical bonding between activated ultrathin PDMS layer and cover glass by oxygen plasma. <i>Lab on A Chip</i> , 2011 , 11, 348-53	7.2 36
46	Thermal expansion and contraction of an elastomer stamp causes position-dependent polymer patterns in capillary force lithography. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4695-702	9.5 14
45	Efficient Inverted Top-Emitting Organic Light Emitting Diodes with Transparent and Surface-Modified Multilayer Anodes. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, J43	4
44	Observation of the hollow cathode effect from a dielectric cathode. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 495205	3 1
43	Organic Light-Emitting Bistable Memory Devices with Self-Assembled Organic Nanoparticles as a Charge Trapping Center. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, J103	2
42	Programmable direct-printing nanowire electronic components. <i>Nano Letters</i> , 2010 , 10, 1016-21	11.5 21
41	Small-Molecule Thiophene-C60 Dyads As Compatibilizers in Inverted Polymer Solar Cells. <i>Chemistry of Materials</i> , 2010 , 22, 5762-5773	9.6 61
40	Reversible Soft-Contact Lamination and Delamination for Non-Invasive Fabrication and Characterization of Bulk-Heterojunction and Bilayer Organic Solar Cells. <i>Chemistry of Materials</i> , 2010 , 22, 4931-4938	9.6 43
39	Electrical contact tunable direct printing route for a ZnO nanowire Schottky diode. <i>Nano Letters</i> , 2010 , 10, 3517-23	11.5 19
38	Dewetting-Induced Formation of Periodic Dot Arrays of Polymer/Au Composites by Capillary Force Lithography. <i>Chemistry of Materials</i> , 2010 , 22, 4166-4174	9.6 13
37	Solution-based TiO ₂ -polymer composite dielectric for low operating voltage OTFTs. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14721-3	16.4 42
36	Pressure-assisted printing with crack-free metal electrodes using an anti-adhesive rigiflex stamp. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2746	7
35	Water-soluble polymer dielectric with potential for high performance organic thin-film transistors. <i>Chemical Communications</i> , 2010 , 46, 3961-3	5.8 18

34	Delicate modification of poly(dimethylsiloxane) ultrathin film by low-energy ion beam treatment for durable intermediate liquid crystal pretilt angles. <i>Langmuir</i> , 2010 , 26, 5072-6	4	10
33	Thin-film formation of imidazolium-based conjugated polydiacetylenes and their application for sensing anionic surfactants. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1422-5	16.4	247
32	Layer-by-layer growth of polymer/quantum dot composite multilayers by nucleophilic substitution in organic media. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 359-63	16.4	53
31	Characteristics and self-cleaning effect of the transparent super-hydrophobic film having nanofibers array structures. <i>Applied Surface Science</i> , 2010 , 256, 6729-6735	6.7	34
30	Oxidation of silver electrodes induces transition from conventional to inverted photovoltaic characteristics in polymer solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 183301	3.4	68
29	Low-Cost Fabrication of Transparent Hard Replica Molds for Imprinting Lithography. <i>Advanced Materials</i> , 2009 , 21, 4050-4053	24	19
28	Sequence of annealing polymer photoactive layer influences the air stability of inverted solar cells. <i>Organic Electronics</i> , 2009 , 10, 1483-1488	3.5	19
27	In-plane growth and directional control of Se nanowires in polymer thin films. <i>Chemical Communications</i> , 2009 , 1855-7	5.8	12
26	Free-standing film electronics using photo-crosslinking layer-by-layer assembly. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4488		22
25	Nanoparticle assembly into a patterned template by controlling the surface wettability. <i>Nanotechnology</i> , 2008 , 19, 355301	3.4	11
24	Surface property controllable multilayered gate dielectric for low voltage organic thin film transistors. <i>Applied Physics Letters</i> , 2008 , 93, 083504	3.4	4
23	Increase in indium diffusion by tetrafluoromethane plasma treatment and its effects on the device performance of polymer light-emitting diodes. <i>Journal of Applied Physics</i> , 2008 , 103, 114502	2.5	22
22	The Directional Peeling Effect of Nanostructured Rigiflex Molds on Liquid-Crystal Devices: Liquid-Crystal Alignment and Optical Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 1340-1347	15.6	34
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