Youn Sang Kim

List of Publications by Year
in descending order

182	5,320	81743	123241
papers	citations	39 h-index	61 g-index

186	186	186	7345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thinâ€Film Formation of Imidazoliumâ€Based Conjugated Polydiacetylenes and Their Application for Sensing Anionic Surfactants. Angewandte Chemie - International Edition, 2010, 49, 1422-1425.	7.2	264
2	Lowâ€Temperature, Solutionâ€Processed and Alkali Metal Doped ZnO for Highâ€Performance Thinâ€Film Transistors. Advanced Materials, 2012, 24, 834-838.	11.1	202
3	Highâ€Power Density Piezoelectric Energy Harvesting Using Radially Strained Ultrathin Trigonal Tellurium Nanowire Assembly. Advanced Materials, 2013, 25, 2920-2925.	11.1	151
4	Allâ€Solutionâ€Processed Flexible Thin Film Piezoelectric Nanogenerator. Advanced Materials, 2012, 24, 6022-6027.	11.1	143
5	An effective energy harvesting method from a natural water motion active transducer. Energy and Environmental Science, 2014, 7, 3279-3283.	15.6	137
6	Highly Effective Fluorescent and Colorimetric Sensors for Pyrophosphate over H2PO4-in 100% Aqueous Solution. Journal of Organic Chemistry, 2005, 70, 9603-9606.	1.7	132
7	Zinc Oxide Nanorodâ€Based Piezoelectric Dermal Patch for Wound Healing. Advanced Functional Materials, 2017, 27, 1603497.	7.8	132
8	UVâ€“Visible Spectroscopic Analysis of Electrical Properties in Alkali Metalâ€Doped Amorphous Zinc Tin Oxide Thinâ€Film Transistors. Advanced Materials, 2013, 25, 2994-3000.	11.1	93
9	Gate Capacitanceâ€Dependent Fieldâ€Effect Mobility in Solutionâ€Processed Oxide Semiconductor Thinâ€Film Transistors. Advanced Functional Materials, 2014, 24, 4689-4697.	7.8	84
10	A simple fabrication route to a highly transparent super-hydrophobic surface with a poly(dimethylsiloxane) coated flexible mold. Chemical Communications, 2007, , 2237.	2.2	83
11	Novel Synthesis, Coating, and Networking of Curved Copper Nanowires for Flexible Transparent Conductive Electrodes. Small, 2015, 11, 4576-4583.	5.2	80
12	High density nanostructure transfer in soft molding using polyurethane acrylate molds and polyelectrolyte multilayers. Nanotechnology, 2003, 14, 1140-1144.	1.3	78
13	Facile Synthesis of Oxidationâ€Resistant Copper Nanowires toward Solutionâ€Processable, Flexible, Foldable, and Freeâ€Standing Electrodes. Small, 2014, 10, 5047-5052.	5.2	73
14	Oxidation of silver electrodes induces transition from conventional to inverted photovoltaic characteristics in polymer solar cells. Applied Physics Letters, 2009, 95, 183301.	1.5	69
15	Small-Molecule Thiophene-C₆₀ Dyads As Compatibilizers in Inverted Polymer Solar Cells. Chemistry of Materials, 2010, 22, 5762-5773.	3.2	68
16	Water adsorption effects of nitrate ion coordinated Al2O3 dielectric for high performance metal-oxide thin-film transistor. Journal of Materials Chemistry C, 2013, 1, 7166.	2.7	66
17	Solution-processed amorphous hafnium-lanthanum oxide gate insulator for oxide thin-film transistors. Journal of Materials Chemistry C, 2014, 2, 1050-1056.	2.7	63
18	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. Angewandte Chemie - International Edition, 2018, 57, 2091-2095.	7.2	58

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19	Chemically Nanopatterned Surfaces Using Polyelectrolytes and Ultraviolet-Cured Hard Molds. Nano Letters, 2005, 5, 1347-1350.	4.5	57
20	Identification of Droplet-Flow-Induced Electric Energy on Electrolyteâ€“Insulatorâ€“Semiconductor Structure. Journal of the American Chemical Society, 2017, 139, 10968-10971.	6.6	56
21	Epitaxial-Growth-Induced Junction Welding of Silver Nanowire Network Electrodes. ACS Nano, 2018, 12, 4894-4902.	7.3	56
22	Layerâ€byâ€Layer Growth of Polymer/Quantum Dot Composite Multilayers by Nucleophilic Substitution in Organic Media. Angewandte Chemie - International Edition, 2010, 49, 359-363.	7.2	54
23	Natural Evaporation-Driven Ionovoltaic Electricity Generation. ACS Applied Electronic Materials, 2019, 1, 1746-1751.	2.0	53
24	Influences of Surface and Ionic Properties on Electricity Generation of an Active Transducer Driven by Water Motion. Journal of Physical Chemistry Letters, 2015, 6, 745-749.	2.1	52
25	Enhanced electrochemical capabilities of lithium ion batteries by structurally ideal AAO separator. Journal of Materials Chemistry A, 2015, 3, 10715-10719.	5.2	52
26	Rose rock-shaped nano Cu 2 O anchored graphene for high-performance supercapacitors via solvothermal route. Journal of Power Sources, 2016, 318, 66-75.	4.0	51
27	Nanofeature-Patterned Polymer Mold Fabrication toward Precisely Defined Nanostructure Replication. Chemistry of Materials, 2005, 17, 5867-5870.	3.2	49
28	Low temperature and solution-processed Na-doped zinc oxide transparent thin film transistors with reliable electrical performance using methanol developing and surface engineering. Journal of Materials Chemistry, 2012, 22, 23120.	6.7	49
29	Solution-Based TiO₂â^'Polymer Composite Dielectric for Low Operating Voltage OTFTs. Journal of the American Chemical Society, 2010, 132, 14721-14723.	6.6	48
30	Patterning of Flexible Transparent Thinâ€Film Transistors with Solutionâ€Processed ZnO Using the Binary Solvent Mixture. Advanced Functional Materials, 2011, 21, 3546-3553.	7.8	48
31	Copper nanowire/multi-walled carbon nanotube composites as all-nanowire flexible electrode for fast-charging/discharging lithium-ion battery. Nano Research, 2018, 11, 769-779.	5.8	46
32	Identification of water-infiltration-induced electrical energy generation by ionovoltaic effect in porous CuO nanowire films. Energy and Environmental Science, 2020, 13, 3432-3438.	15.6	46
33	Orientational Transition of Liquid Crystal Molecules by a Photoinduced Transformation Process into a Recoveryâ€free Silicon Oxide Layer. Advanced Materials, 2008, 20, 3073-3078.	11.1	45
34	Reversible Soft-Contact Lamination and Delamination for Non-Invasive Fabrication and Characterization of Bulk-Heterojunction and Bilayer Organic Solar Cells. Chemistry of Materials, 2010, 22, 4931-4938.	3.2	45
35	Evaporative electrical energy generation via diffusion-driven ion-electron-coupled transport in semiconducting nanoporous channel. Nano Energy, 2021, 80, 105522.	8.2	42
36	No bias pi cell using a dual alignment layer with an intermediate pretilt angle. Applied Physics Letters, 2007, 91, .	1.5	40

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37	Bridging Oriented Copper Nanowireâ€“Graphene Composites for Solution-Processable, Annealing-Free, and Air-Stable Flexible Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 1733-1741.	4.0	40
38	A systematic study on effects of precursors and solvents for optimization of solution-processed oxide semiconductor thin-film transistors. Journal of Materials Chemistry C, 2017, 5, 7768-7776.	2.7	40
39	Effective Atmospheric-Pressure Plasma Treatment toward High-Performance Solution-Processed Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2018, 10, 30581-30586.	4.0	40
40	Organic Nonvolatile Resistive Switching Memory Based on Molecularly Entrapped Fullerene Derivative within a Diblock Copolymer Nanostructure. Macromolecular Rapid Communications, 2013, 34, 355-361.	2.0	39
41	Allâ€Solutionâ€Processed Transparent Thin Film Transistor and Its Application to Liquid Crystals Driving. Advanced Materials, 2013, 25, 3209-3214.	11.1	39
42	Self-Healing Polymer Dielectric for a High Capacitance Gate Insulator. ACS Applied Materials & Interfaces, 2016, 8, 23854-23861.	4.0	39
43	All solid state flexible supercapacitors operating at 4 V with a cross-linked polymerâ€“ionic liquid electrolyte. Journal of Materials Chemistry A, 2016, 4, 4386-4391.	5.2	39
44	Simple fabrication of hydrophilic nanochannels using the chemical bonding between activated ultrathin PDMS layer and cover glass by oxygen plasma. Lab on A Chip, 2011, 11, 348-353.	3.1	38
45	A visible light detector based on a heterojunction phototransistor with a highly stable inorganic CsPbI_xBr_{3â^'x} perovskite and Inâ€“Gaâ€“Znâ€“O semiconductor double-layer. Journal of Materials Chemistry C, 2019, 7, 14223-14231.	2.7	37
46	Characteristics and self-cleaning effect of the transparent super-hydrophobic film having nanofibers array structures. Applied Surface Science, 2010, 256, 6729-6735.	3.1	36
47	Ultrathin self-powered artificial skin. Energy and Environmental Science, 2014, 7, 3994-3999.	15.6	36
48	Nonwoven rGO Fiberâ€Aramid Separator for Highâ€Speed Charging and Discharging of Li Metal Anode. Advanced Energy Materials, 2020, 10, 2001479.	10.2	36
49	The Directional Peeling Effect of Nanostructured Rigiflex Molds on Liquidâ€Crystal Devices: Liquidâ€Crystal Alignment and Optical Properties. Advanced Functional Materials, 2008, 18, 1340-1347.	7.8	35
50	Lattice Transparency of Graphene. Nano Letters, 2017, 17, 1711-1718.	4.5	35
51	Selective patterning and immobilization of biomolecules within precisely-defined micro-reservoirs. Biosensors and Bioelectronics, 2006, 21, 2188-2193.	5.3	34
52	Effects of annealing temperature of aqueous solution-processed ZnO electron-selective layers on inverted polymer solar cells. Organic Electronics, 2013, 14, 100-104.	1.4	34
53	A wearable piezoelectric bending motion sensor for simultaneous detection of bending curvature and speed. RSC Advances, 2017, 7, 2520-2526.	1.7	34
54	The structural, optical and electrical characterization of high-performance, low-temperature and solution-processed alkali metal-doped ZnO TFTs. Journal of Materials Chemistry C, 2013, 1, 1383.	2.7	32

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55	Hydrophilic Composite Elastomeric Mold for High-Resolution Soft Lithography. Langmuir, 2006, 22, 9018-9022.	1.6	31
56	Soft Contact Transplanted Nanocrystal Quantum Dots for Light-Emitting Diodes: Effect of Surface Energy on Device Performance. ACS Applied Materials & Interfaces, 2015, 7, 10828-10833.	4.0	31
57	Aqueous zinc ammine complex for solution-processed ZnO semiconductors in thin film transistors. RSC Advances, 2014, 4, 11295.	1.7	30
58	Photosensitivity of InZnO thin-film transistors using a solution process. Applied Physics Letters, 2016, 109, .	1.5	30
59	Curved copper nanowires-based robust flexible transparent electrodes via all-solution approach. Nano Research, 2017, 10, 3077-3091.	5.8	30
60	Inducement of Azimuthal Molecular Orientation of Pentacene by Imprinted Periodic Groove Patterns for Organic Thinâ€Film Transistors. Advanced Materials, 2008, 20, 1146-1153.	11.1	29
61	Fluidic Active Transducer for Electricity Generation. Scientific Reports, 2015, 5, 15695.	1.6	29
62	Highly stable lithium metal battery with an applied three-dimensional mesh structure interlayer. Journal of Materials Chemistry A, 2018, 6, 15540-15545.	5.2	29
63	Self-reducible copper ion complex ink for air sinterable conductive electrodes. Journal of Materials Chemistry C, 2016, 4, 10740-10746.	2.7	28
64	Strong Influence of Humidity on Low-Temperature Thin-Film Fabrication via Metal Aqua Complex for High Performance Oxide Semiconductor Thin-Film Transistors. ACS Applied Materials & Interfaces, 2017, 9, 548-557.	4.0	28
65	A Specific Groove Pattern Can Effectively Induce Osteoblast Differentiation. Advanced Functional Materials, 2017, 27, 1703569.	7.8	28
66	Programmable Direct-Printing Nanowire Electronic Components. Nano Letters, 2010, 10, 1016-1021.	4.5	27
67	Hierarchical Surface Topography in Block Copolymer Thin Films Induced by Residual Solvent. Macromolecules, 2003, 36, 4907-4915.	2.2	26
68	Fully Solution-Processed and Foldable Metal-Oxide Thin-Film Transistor. ACS Applied Materials & Interfaces, 2016, 8, 12894-12900.	4.0	26
69	Surface-plasmon-enhanced visible-light emission of ZnO/Ag grating structures. Optics Express, 2011, 19, 5895.	1.7	25
70	A robust ionic liquidâ€“polymer gate insulator for high-performance flexible thin film transistors. Journal of Materials Chemistry C, 2015, 3, 4239-4243.	2.7	25
71	Redox-active ionic liquid electrolyte with multi energy storage mechanism for high energy density supercapacitor. RSC Advances, 2017, 7, 55702-55708.	1.7	25
72	Multilayer Transfer Printing on Microreservoir-Patterned Substrate Employing Hydrophilic Composite Mold for Selective Immobilization of Biomolecules. Langmuir, 2006, 22, 7689-7694.	1.6	24

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73	Nanoscale in situ detection of nucleation and growth of Li electrodeposition at various current densities. Journal of Materials Chemistry A, 2018, 6, 4629-4635.	5.2	24
74	Nitrogen-doped MoS2 as a catalytic sulfur host for lithium-sulfur batteries. Chemical Engineering Journal, 2022, 439, 135568.	6.6	24
75	Superhydrophobic modification of gate dielectrics for densely packed pentacene thin film transistors. Applied Physics Letters, 2007, 91, 063503.	1.5	23
76	Electrical Contact Tunable Direct Printing Route for a ZnO Nanowire Schottky Diode. Nano Letters, 2010, 10, 3517-3523.	4.5	23
77	TiO2-poly(4-vinylphenol) nanocomposite dielectrics for organic thin film transistors. Organic Electronics, 2013, 14, 3406-3414.	1.4	23
78	Verification of Charge Transfer in Metal-Insulator-Oxide Semiconductor Diodes via Defect Engineering of Insulator. Scientific Reports, 2019, 9, 10323.	1.6	23
79	Reducing the Persistent Photoconductivity Effect in Zinc Oxide by Sequential Surface Ultraviolet Ozone and Annealing Treatments. ACS Applied Electronic Materials, 2019, 1, 2655-2663.	2.0	23
80	Eco-friendly cross-linked polymeric dielectric material based on natural tannic acid. Chemical Engineering Journal, 2019, 358, 170-175.	6.6	23
81	Integrated Catalytic Activity of Patterned Multilayer Films Based on pHâ€Induced Electrostatic Properties of Enzymes. Advanced Materials, 2008, 20, 1843-1848.	11.1	22
82	Increase in indium diffusion by tetrafluoromethane plasma treatment and its effects on the device performance of polymer light-emitting diodes. Journal of Applied Physics, 2008, 103, 114502.	1.1	22
83	Free-standing film electronics using photo-crosslinking layer-by-layer assembly. Journal of Materials Chemistry, 2009, 19, 4488.	6.7	22
84	A Surfaceâ€Functionalized Ionovoltaic Device for Probing Ionâ€Specific Adsorption at the Solidâ€“Liquid Interface. Advanced Materials, 2019, 31, e1806268.	11.1	22
85	Water-soluble polymer dielectric with potential for high performance organic thin-film transistors. Chemical Communications, 2010, 46, 3961.	2.2	21
86	Direct electron injection into an oxide insulator using a cathode buffer layer. Nature Communications, 2015, 6, 6785.	5.8	21
87	Superporous agarose beads as a solid support for microfluidic immunoassay. Ultramicroscopy, 2008, 108, 1384-1389.	0.8	20
88	Thermal Expansion and Contraction of an Elastomer Stamp Causes Position-Dependent Polymer Patterns in Capillary Force Lithography. ACS Applied Materials & Interfaces, 2011, 3, 4695-4702.	4.0	20
89	Fabric Active Transducer Stimulated by Water Motion for Self-Powered Wearable Device. ACS Applied Materials & Interfaces, 2016, 8, 24579-24584.	4.0	20
90	Solvent-Free and Highly Transparent SiO₂ Nanoparticleâ€“Polymer Composite with an Enhanced Moisture Barrier Property. Industrial & Engineering Chemistry Research, 2016, 55, 9433-9439.	1.8	20

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91	Lowâ€Cost Fabrication of Transparent Hard Replica Molds for Imprinting Lithography. Advanced Materials, 2009, 21, 4050-4053.	11.1	19
92	Sequence of annealing polymer photoactive layer influences the air stability of inverted solar cells. Organic Electronics, 2009, 10, 1483-1488.	1.4	19
93	Fast, exact and non-destructive diagnoses of contact failures in nano-scale semiconductor device using conductive AFM. Scientific Reports, 2013, 3, 2088.	1.6	19
94	Enhancement of the outdoor stability of dye-sensitized solar cells by a spectrum conversion layer with 1,8-naphthalimide derivatives. RSC Advances, 2015, 5, 32588-32593.	1.7	19
95	Characteristics of transparent encapsulation materials for OLEDs prepared from mesoporous silica nanoparticle-polyurethane acrylate resin composites. Composites Part B: Engineering, 2019, 175, 107188.	5.9	19
96	Advanced Li metal anode by fluorinated metathesis on conjugated carbon networks. Energy and Environmental Science, 2021, 14, 940-954.	15.6	19
97	Implementation of Synaptic Device Using Ultraviolet Ozone Treated Waterâ€inâ€Bisalt/Polymer Electrolyteâ€Gated Transistor. Advanced Functional Materials, 2022, 32, .	7.8	19
98	Ionovoltaic urea sensor. Nano Energy, 2019, 57, 195-201.	8.2	18
99	Solution-Grown Homojunction Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2019, 11, 4103-4110.	4.0	18
100	Dewetting-Induced Formation of Periodic Dot Arrays of Polymer/Au Composites by Capillary Force Lithography. Chemistry of Materials, 2010, 22, 4166-4174.	3.2	17
101	Copper-embedded reduced graphene oxide fibers for multi-sensors. Journal of Materials Chemistry C, 2017, 5, 12825-12832.	2.7	17
102	Surface-Functionalized Interfacial Self-Assembled Monolayers as Copper Electrode Diffusion Barriers for Oxide Semiconductor Thin-Film Transistor. ACS Applied Electronic Materials, 2019, 1, 430-436.	2.0	17
103	Highly transparent phototransistor based on quantum-dots and ZnO bilayers for optical logic gate operation in visible-light. RSC Advances, 2020, 10, 16404-16414.	1.7	17
104	An in situ formed LiF protective layer on a Li metal anode with solvent-less cross-linking. Sustainable Energy and Fuels, 2020, 4, 3282-3287.	2.5	17
105	Interface engineering for suppression of flat-band voltage shift in a solution-processed ZnO/polymer dielectric thin film transistor. Journal of Materials Chemistry C, 2013, 1, 7742.	2.7	16
106	Analysis on characteristics of contact-area-dependent electric energy induced by ion sorption at solid-liquid interface. Nano Energy, 2017, 42, 257-261.	8.2	16
107	Effects of Unusual Gate Current on the Electrical Properties of Oxide Thin-Film Transistors. Scientific Reports, 2018, 8, 13905.	1.6	16
108	A poly(dimethylsiloxane)-coated flexible mold for nanoimprint lithography. Nanotechnology, 2007, 18, 415303.	1.3	15

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109	Nonlinear piezoelectric dual sensor for the detection of angle and radius of a bending deformation. Nano Energy, 2017, 38, 232-238.	8.2	15
110	Cu_xO Nanowires Based Flexible Ionovoltaic Device for Droplet-Flow-Induced Electrical Energy Generation. ACS Applied Energy Materials, 2020, 3, 1253-1259.	2.5	15
111	Micropatterned crystalline organic semiconductors via direct pattern transfer printing with PDMS stamp. Journal of Materials Chemistry, 2012, 22, 22763.	6.7	14
112	Micro-patterned ZnO semiconductors for high performance thin film transistors via chemical imprinting with a PDMS stamp. Chemical Communications, 2013, 49, 2783.	2.2	14
113	Electricity modulation of a water motion active transducer via surface functionality control. Nano Energy, 2017, 40, 447-453.	8.2	14
114	Vertical Transport Control of Electrical Charge Carriers in Insulator/Oxide Semiconductor Hetero-structure. Scientific Reports, 2018, 8, 5643.	1.6	14
115	Solution-processed amorphous ZrO₂ gate dielectric films synthesized by a non-hydrolytic solâ€“gel route. RSC Advances, 2018, 8, 39115-39119.	1.7	14
116	Advanced measurement and diagnosis of the effect on the underlayer roughness for industrial standard metrology. Scientific Reports, 2019, 9, 1018.	1.6	14
117	Long-term stability in Î³-CsPbI3 perovskite via an ultraviolet-curable polymer network. Communications Materials, 2021, 2, .	2.9	14
118	A high-performance polymer composite electrolyte embedded with ionic liquid for all solid lithium based batteries operating at ambient temperature. Journal of Industrial and Engineering Chemistry, 2017, 52, 1-6.	2.9	13
119	Verification of Carrier Concentrationâ€Dependent Behavior in Waterâ€Infiltrationâ€Induced Electricity Generation by Ionovoltaic Effect. Small, 2021, 17, e2103448.	5.2	13
120	Ionic Diffusionâ€Driven Ionovoltaic Transducer for Probing Ionâ€Molecular Interactions at Solidâ€“Liquid Interface. Advanced Science, 2022, 9, e2103038.	5.6	13
121	Nanoparticle assembly into a patterned template by controlling the surface wettability. Nanotechnology, 2008, 19, 355301.	1.3	12
122	In-plane growth and directional control of Se nanowires in polymer thin films. Chemical Communications, 2009, , 1855.	2.2	12
123	Liquid electrolyte-free cylindrical Al polymer capacitor review: Materials and characteristics. Journal of Power Sources, 2015, 284, 466-480.	4.0	12
124	Expanded graphite/copper oxide composite electrodes for cell kinetic balancing of lithium-ion capacitor. Journal of Alloys and Compounds, 2020, 829, 154566.	2.8	12
125	Oxygen Radical Control via Atmospheric Pressure Plasma Treatment for Highly Stable IGZO Thin-Film Transistors. IEEE Transactions on Electron Devices, 2020, 67, 3135-3140.	1.6	12
126	Interfacial Ionâ€Trapping Electrolyteâ€Gated Transistors for Highâ€Fidelity Neuromorphic Computing. Advanced Functional Materials, 2022, 32, .	7.8	12

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127	Effect of redox proteins on the behavior of non-volatile memory. Chemical Communications, 2012, 48, 12008.	2.2	11
128	A high efficiency dye-sensitized solar cell with a UV-cured polymer gel electrolyte and a nano-gel electrolyte double layer. Journal of Materials Chemistry A, 2013, 1, 8529.	5.2	11
129	Fabrication of a Multidomain and Ultrafastâ€Switching Liquid Crystal Alignment Layer Using Contact Printing with a Poly(dimethylsiloxane) Stamp. Advanced Materials, 2013, 25, 1408-1414.	11.1	11
130	Effective work function modulation of SWCNTâ€“AZO NP hybrid electrodes in fully solution-processed flexible metal-oxide thin film transistors. Journal of Materials Chemistry C, 2015, 3, 8121-8126.	2.7	11
131	Ultrathin Photoâ€Oxidized Siloxane Layer for Extreme Wettability: Antiâ€Fogging Layer for Spectacles. Advanced Materials Interfaces, 2016, 3, 1500725.	1.9	11
132	Electron Densityâ€Change in Semiconductor by Ionâ€Adsorption at Solidâ€“Liquid Interface. Advanced Materials, 2021, 33, e2007581.	11.1	11
133	Conductive Polymer-Assisted Metal Oxide Hybrid Semiconductors for High-Performance Thin-Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 8552-8562.	4.0	11
134	Interface Modeling via Tailored Energy Band Alignment: Toward Electrochemically Stabilized Allâ€Solidâ€State Liâ€Metal Batteries. Advanced Functional Materials, 2022, 32, 2107555.	7.8	11
135	Delicate Modification of Poly(dimethylsiloxane) Ultrathin Film by Low-Energy Ion Beam Treatment for Durable Intermediate Liquid Crystal Pretilt Angles. Langmuir, 2010, 26, 5072-5076.	1.6	10
136	Solution processable silica thin film coating on microporous substrate with high tortuosity: application to a battery separator. RSC Advances, 2013, 3, 16708.	1.7	10
137	Effects of process variables on aqueous-based AlOx insulators for high-performance solution-processed oxide thin-film transistors. Journal of Industrial and Engineering Chemistry, 2018, 68, 117-123.	2.9	10
138	Atmospheric-pressure plasma treatment toward high-quality solution-processed aluminum oxide gate dielectric films in thin-film transistors. Nanotechnology, 2019, 30, 495702.	1.3	10
139	Highly reliable quinone-based cathodes and cellulose nanofiber separators: toward eco-friendly organic lithium batteries. Cellulose, 2020, 27, 6707-6717.	2.4	10
140	A Simple Imprint Method for Multiâ€Tiered Polymer Nanopatterning on Large Flexible Substrates Employing a Flexible Mold and Hemispherical PDMS Elastomer. Macromolecular Rapid Communications, 2007, 28, 1995-2000.	2.0	9
141	Pressure-assisted electrode fabrication using simply synthesized Cu₃Sn alloy nanoparticles. Journal of Materials Chemistry C, 2015, 3, 2773-2777.	2.7	9
142	Electroâ€optic switching with liquid crystal graphene. Physica Status Solidi - Rapid Research Letters, 2016, 10, 397-403.	1.2	9
143	Nanometer-Thick Cs₂SnI₆ Perovskiteâ€“Polyethylene Glycol Dimethacrylate Composite Films for Highly Stable Broad-Band Photodetectors. ACS Applied Nano Materials, 2021, 4, 5309-5318.	2.4	9
144	Synthesis of Copper Oxide/Graphite Composite for Highâ€Performance Rechargeable Battery Anode. Chemistry - A European Journal, 2017, 23, 11629-11635.	1.7	8

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145	An organicâ€“inorganic composite separator for preventing shuttle effect in lithiumâ€“sulfur batteries. Sustainable Energy and Fuels, 2020, 4, 3051-3057.	2.5	8
146	Strategies for High-Performance Amorphous Indiumâ€“Galliumâ€“Zinc Oxide Schottky Contact via Defect-Induced Physical Interface Modification. ACS Applied Electronic Materials, 2021, 3, 1864-1872.	2.0	8
147	Analysis of Interface Phenomena for High-Performance Dual-Stacked Oxide Thin-Film Transistors via Equivalent Circuit Modeling. ACS Applied Materials & Interfaces, 2021, 13, 51266-51278.	4.0	8
148	Pressure-assisted printing with crack-free metal electrodes using an anti-adhesive rigiflex stamp. Journal of Materials Chemistry, 2010, 20, 2746.	6.7	7
149	Synthesis of Cu‹sub›3‹/sub›Sn Alloy Nanocrystals through Sequential Reduction Induced by Gradual Increase of the Reaction Temperature. Chemistry - A European Journal, 2015, 21, 6690-6694.	1.7	7
150	Precise Turn-On Voltage Control of MIOSM Thin-Film Diodes with Amorphous Indiumâ€“Galliumâ€“Zinc Oxide. ACS Applied Materials & Interfaces, 2021, 13, 878-886.	4.0	7
151	The effect of surface energy characterized functional groups of self-assembled monolayers for enhancing the electrical stability of oxide semiconductor thin film transistors. Nanotechnology, 2020, 31, 475203.	1.3	7
152	Investigation of Vertical Current Phenomena in the Insulator/Oxide Semiconductor Heterojunction Using XPS Analysis and an Atmospheric-Pressure Plasma Treatment System. ACS Applied Electronic Materials, 2019, 1, 1698-1704.	2.0	6
153	Turn-On Voltage Shift of Metalâ€“Insulatorâ€“Oxide Semiconductor Thin-Film Diode by Adding Schottky Diode in Reverse Direction. ACS Applied Electronic Materials, 2019, 1, 530-537.	2.0	6
154	Probing an Interfacial Ionic Pairingâ€Induced Molecular Dipole Effect in Ionovoltaic System. Small Methods, 2021, 5, e2100323.	4.6	6
155	Surface property controllable multilayered gate dielectric for low voltage organic thin film transistors. Applied Physics Letters, 2008, 93, 083504.	1.5	5
156	Hierarchically-structured artificial water-repellent leaf surfaces replicated from reusable anodized aluminum oxide. Macromolecular Research, 2012, 20, 762-767.	1.0	5
157	Graphene as a thin-film catalyst booster: graphene-catalyst interface plays a critical role. Nanotechnology, 2017, 28, 495708.	1.3	5
158	Ni-Particle-Embedded Bilayer Gel Polymer Electrolyte for Highly Stable Lithium Metal Batteries. ACS Applied Energy Materials, 2019, 2, 8310-8318.	2.5	5
159	Low leakage current gate dielectrics prepared by ion beam assisted deposition for organic thin film transistors. Journal of Applied Physics, 2007, 102, 126101.	1.1	4
160	Efficient Inverted Top-Emitting Organic Light Emitting Diodes with Transparent and Surface-Modified Multilayer Anodes. Electrochemical and Solid-State Letters, 2010, 13, J43.	2.2	4
161	Effects of Li doping on the negative bias stress stability of solution-processed ZnO thin film transistors. RSC Advances, 2015, 5, 68392-68396.	1.7	4
162	Conduction mechanism change with transport oxide layer thickness in oxide hetero-interface diode. Applied Physics Letters, 2017, 111, 053506.	1.5	4

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163	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. Angewandte Chemie, 2018, 130, 2113-2117.	1.6	4
164	Mobility boost up of hybrid TFT with solvent-free cross-linked polyurethane-ionic liquid gate dielectric. Applied Physics Express, 2019, 12, 101004.	1.1	4
165	Investigation on Resistivity-Dependent Behavior of Carbon-Composite-Based Paintable Ionovoltaic Device. ACS Applied Electronic Materials, 2019, 1, 1059-1064.	2.0	4
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