Jeong Ho Cho

List of Publications by Year
in descending order

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297 papers	16,806 citations	14614 66 h-index	19136 118 g-index
303 all docs	303 docs citations	303 times ranked	19939 citing authors

#	Article	IF	Citations
1	Printable ion-gel gate dielectrics for low-voltage polymer thin-film transistorsÂonÂplastic. Nature Materials, 2008, 7, 900-906.	13.3	1,077
2	Highâ€Performance Perovskiteâ€“Graphene Hybrid Photodetector. Advanced Materials, 2015, 27, 41-46.	11.1	753
3	Stretchable and Multimodal All Graphene Electronic Skin. Advanced Materials, 2016, 28, 2601-2608.	11.1	493
4	Photoresponse of CsPbBr₃ and Cs₄PbBr₆ Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2017, 8, 565-570.	2.1	395
5	High-Performance Flexible Graphene Field Effect Transistors with Ion Gel Gate Dielectrics. Nano Letters, 2010, 10, 3464-3466.	4.5	390
6	Stretchable Graphene Transistors with Printed Dielectrics and Gate Electrodes. Nano Letters, 2011, 11, 4642-4646.	4.5	351
7	Ion Gel-Gated Polymer Thin-Film Transistors: Operating Mechanism and Characterization of Gate Dielectric Capacitance, Switching Speed, and Stability. Journal of Physical Chemistry C, 2009, 113, 8972-8981.	1.5	325
8	Highâ€Performance Triboelectric Nanogenerators Based on Electrospun Polyvinylidene Fluorideâ€“Silver Nanowire Composite Nanofibers. Advanced Functional Materials, 2018, 28, 1703778.	7.8	291
9	Active Matrix Electronic Skin Strain Sensor Based on Piezopotentialâ€Powered Graphene Transistors. Advanced Materials, 2015, 27, 3411-3417.	11.1	287
10	Optoelectronic Synapse Based on IGZOâ€Alkylated Graphene Oxide Hybrid Structure. Advanced Functional Materials, 2018, 28, 1804397.	7.8	280
11	Dye-Sensitized MoS₂ Photodetector with Enhanced Spectral Photoresponse. ACS Nano, 2014, 8, 8285-8291.	7.3	268
12	Large-scale organic nanowire lithography and electronics. Nature Communications, 2013, 4, 1773.	5.8	262
13	Large-Area MXene Electrode Array for Flexible Electronics. ACS Nano, 2019, 13, 11392-11400.	7.3	224
14	Effect of the Phase States of Self-Assembled Monolayers on Pentacene Growth and Thin-Film Transistor Characteristics. Journal of the American Chemical Society, 2008, 130, 10556-10564.	6.6	221
15	Sensing with MXenes: Progress and Prospects. Advanced Materials, 2021, 33, e2005846.	11.1	219
16	Solubilityâ€Induced Ordered Polythiophene Precursors for Highâ€Performance Organic Thinâ€Film Transistors. Advanced Functional Materials, 2009, 19, 1200-1206.	7.8	214
17	Lowâ€Temperature, Solutionâ€Processed and Alkali Metal Doped ZnO for Highâ€Performance Thinâ€Film Transistors. Advanced Materials, 2012, 24, 834-838.	11.1	202
18	Transparent, Lowâ€Power Pressure Sensor Matrix Based on Coplanarâ€Gate Graphene Transistors. Advanced Materials, 2014, 26, 4735-4740.	11.1	185

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19	Stable Superhydrophobic Organicâ^'Inorganic Hybrid Films by Electrostatic Self-Assembly. Journal of Physical Chemistry B, 2005, 109, 20773-20778.	1.2	184
20	Printed Subâ€2 V Gelâ€Electrolyteâ€Gated Polymer Transistors and Circuits. Advanced Functional Materials, 2010, 20, 587-594.	7.8	180
21	Importance of Solubilizing Group and Backbone Planarity in Low Band Gap Polymers for High Performance Ambipolar field-effect Transistors. Chemistry of Materials, 2012, 24, 1316-1323.	3.2	168
22	Lead-Free Perovskite Nanocrystals for Light-Emitting Devices. Journal of Physical Chemistry Letters, 2018, 9, 1573-1583.	2.1	167
23	Synthesis of wafer-scale uniform molybdenum disulfide films with control over the layer number using a gas phase sulfur precursor. Nanoscale, 2014, 6, 2821.	2.8	166
24	Modulation of Quantum Tunneling via a Vertical Two-Dimensional Black Phosphorus and Molybdenum Disulfide pâ€"n Junction. ACS Nano, 2017, 11, 9143-9150.	7.3	164
25	A roll-to-roll welding process for planarized silver nanowire electrodes. Nanoscale, 2014, 6, 11828-11834.	2.8	161
26	Epitaxial Synthesis of Molybdenum Carbide and Formation of a Mo₂C/MoS₂ Hybrid Structure via Chemical Conversion of Molybdenum Disulfide. ACS Nano, 2018, 12, 338-346.	7.3	148
27	Effect of side chain length on molecular ordering and field-effect mobility in poly(3-alkylthiophene) transistors. Organic Electronics, 2006, 7, 514-520.	1.4	147
28	Multibit MoS₂ Photoelectronic Memory with Ultrahigh Sensitivity. Advanced Materials, 2016, 28, 9196-9202.	11.1	145
29	Solution-processable pentacene microcrystal arrays for high performance organic field-effect transistors. Applied Physics Letters, 2007, 90, 132106.	1.5	140
30	Comparison of the Mobilityâ€"Carrier Density Relation in Polymer and Singleâ€Crystal Organic Transistors Employing Vacuum and Liquid Gate Dielectrics. Advanced Materials, 2009, 21, 2174-2179.	11.1	140
31	Graphene-based flexible and stretchable thin film transistors. Nanoscale, 2012, 4, 4870.	2.8	135
32	Low-voltage and high-field-effect mobility organic transistors with a polymer insulator. Applied Physics Letters, 2006, 88, 072101.	1.5	130
33	Vertical organic synapse expandable to 3D crossbar array. Nature Communications, 2020, 11, 4595.	5.8	130
34	Flexible and Transparent Metallic Grid Electrodes Prepared by Evaporative Assembly. ACS Applied Materials & Interfaces, 2014, 6, 12380-12387.	4.0	128
35	Semiconductorâ€Dielectric Blends: A Facile All Solution Route to Flexible Allâ€Organic Transistors. Advanced Materials, 2009, 21, 4243-4248.	11.1	120
36	Probing Out-of-Plane Charge Transport in Black Phosphorus with Graphene-Contacted Vertical Field-Effect Transistors. Nano Letters, 2016, 16, 2580-2585.	4.5	119

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37	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. Nature Communications, 2020, 11, 2874.	5.8	114
38	Multifunctional Hybrid Fabrics with Thermally Stable Superhydrophobicity. Advanced Materials, 2010, 22, 2138-2141.	11.1	113
39	Enhanced Raman Scattering of Rhodamine 6G Films on Two-Dimensional Transition Metal Dichalcogenides Correlated to Photoinduced Charge Transfer. Chemistry of Materials, 2016, 28, 180-187.	3.2	112
40	High-mobility low-temperature ZnO transistors with low-voltage operation. Applied Physics Letters, 2010, 96, .	1.5	110
41	Coplanar-Gate Transparent Graphene Transistors and Inverters on Plastic. ACS Nano, 2012, 6, 8646-8651.	7.3	110
42	Multifunctional Graphene Optoelectronic Devices Capable of Detecting and Storing Photonic Signals. Nano Letters, 2015, 15, 2542-2547.	4.5	110
43	Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. Nano Energy, 2019, 66, 104095.	8.2	100
44	MoS₂â€“InGaZnO Heterojunction Phototransistors with Broad Spectral Responsivity. ACS Applied Materials & Interfaces, 2016, 8, 8576-8582.	4.0	98
45	Control of mesoscale and nanoscale ordering of organic semiconductors at the gate dielectric/semiconductor interface for organic transistors. Journal of Materials Chemistry, 2010, 20, 2549.	6.7	97
46	Effects of metal penetration into organic semiconductors on the electrical properties of organic thin film transistors. Applied Physics Letters, 2006, 89, 132101.	1.5	96
47	Ultrathin Organic Solar Cells with Graphene Doped by Ferroelectric Polarization. ACS Applied Materials & Interfaces, 2014, 6, 3299-3304.	4.0	91
48	Lowâ€Voltage Complementary Electronics from Ionâ€Gelâ€Gated Vertical Van der Waals Heterostructures. Advanced Materials, 2016, 28, 3742-3748.	11.1	91
49	Effects of the permanent dipoles of self-assembled monolayer-treated insulator surfaces on the field-effect mobility of a pentacene thin-film transistor. Applied Physics Letters, 2007, 90, 132104.	1.5	90
50	2D MXeneâ€“TiO₂ Coreâ€“Shell Nanosheets as a Dataâ€Storage Medium in Memory Devices. Advanced Materials, 2020, 32, e1907633.	11.1	89
51	2Dâ€“Organic Hybrid Heterostructures for Optoelectronic Applications. Advanced Materials, 2019, 31, e1803831.	11.1	86
52	Highly Tunable Charge Transport in Layer-by-Layer Assembled Graphene Transistors. ACS Nano, 2012, 6, 2432-2440.	7.3	84
53	Solvent effect of inkjet printed source/drain electrodes on electrical properties of polymer thin-film transistors. Applied Physics Letters, 2006, 88, 082102.	1.5	82
54	An Organic Vertical Fieldâ€Effect Transistor with Undersideâ€Doped Graphene Electrodes. Advanced Materials, 2016, 28, 4803-4810.	11.1	82

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55	Halide Welding for Silver Nanowire Network Electrode. ACS Applied Materials & Interfaces, 2017, 9, 30779-30785.	4.0	82
56	Transparent and Self-Powered Multistage Sensation Matrix for Mechanosensation Application. ACS Nano, 2018, 12, 254-262.	7.3	81
57	Fingerprintâ€Inspired Conducting Hierarchical Wrinkles for Energyâ€Harvesting Eâ€Skin. Advanced Functional Materials, 2019, 29, 1903580.	7.8	79
58	Influence of the dielectric constant of a polyvinyl phenol insulator on the field-effect mobility of a pentacene-based thin-film transistor. Applied Physics Letters, 2005, 87, 152105.	1.5	77
59	Change of molecular ordering in soluble acenes via solvent annealing and its effect on field-effect mobility. Applied Physics Letters, 2007, 91, 092105.	1.5	75
60	Robust Superhydrophobic Mats based on Electrospun Crystalline Nanofibers Combined with a Silane Precursor. ACS Applied Materials & Interfaces, 2010, 2, 658-662.	4.0	75
61	Oriented Grains with Preferred Lowâ€Angle Grain Boundaries in Halide Perovskite Films by Pressureâ€Induced Crystallization. Advanced Energy Materials, 2018, 8, 1702369.	10.2	74
62	Roll-to-roll preparation of silver-nanowire transparent electrode and its application to large-area organic light-emitting diodes. Organic Electronics, 2017, 41, 190-197.	1.4	73
63	A polymer brush organic interlayer improves the overlying pentacene nanostructure and organic field-effect transistor performance. Journal of Materials Chemistry, 2011, 21, 15580.	6.7	71
64	Mechanically Robust Silver Nanowires Network for Triboelectric Nanogenerators. Advanced Functional Materials, 2016, 26, 7717-7724.	7.8	71
65	Multifunctional Smart Textronics with Blowâ€Spun Nonwoven Fabrics. Advanced Functional Materials, 2019, 29, 1900025.	7.8	71
66	Halide Perovskite Nanopillar Photodetector. ACS Nano, 2018, 12, 8564-8571.	7.3	70
67	A multiple negative differential resistance heterojunction device and its circuit application to ternary static random access memory. Nanoscale Horizons, 2020, 5, 654-662.	4.1	70
68	Large-Area CVD-Grown Sub-2 V ReS₂ Transistors and Logic Gates. Nano Letters, 2017, 17, 2999-3005.	4.5	68
69	Hybrid structures of organic dye and graphene for ultrahigh gain photodetectors. Carbon, 2015, 88, 165-172.	5.4	67
70	Universal three-dimensional crosslinker for all-photopatterned electronics. Nature Communications, 2020, 11, 1520.	5.8	65
71	Organic Fieldâ€Effect Transistor Memory Devices Using Discrete Ferritin Nanoparticleâ€Based Gate Dielectrics. Small, 2013, 9, 3784-3791.	5.2	64
72	Mechanosensation-Active Matrix Based on Direct-Contact Tribotronic Planar Graphene Transistor Array. ACS Nano, 2018, 12, 9381-9389.	7.3	64

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73	Wide-Range Controllable n-Doping of Molybdenum Disulfide (MoS₂) through Thermal and Optical Activation. ACS Nano, 2015, 9, 2368-2376.	7.3	60
74	Superamphiphilic Janus Fabric. Langmuir, 2010, 26, 19159-19162.	1.6	59
75	Transparent and Colorless Polyimides Containing Multiple Trifluoromethyl Groups as Gate Insulators for Flexible Organic Transistors with Superior Electrical Stability. ACS Applied Materials & Interfaces, 2020, 12, 18739-18747.	4.0	58
76	Optoelectronic Inâ€Gaâ€Znâ€O Memtransistors for Artificial Vision System. Advanced Functional Materials, 2020, 30, 2002325.	7.8	57
77	Photo-patternable ion gel-gated graphene transistors and inverters on plastic. Nanotechnology, 2014, 25, 014002.	1.3	56
78	Positively-charged reduced graphene oxide as an adhesion promoter for preparing a highly-stable silver nanowire film. Nanoscale, 2015, 7, 6798-6804.	2.8	56
79	Epitaxial-Growth-Induced Junction Welding of Silver Nanowire Network Electrodes. ACS Nano, 2018, 12, 4894-4902.	7.3	56
80	Self-Healable Hydrogelâ€“Liquid Metal Composite Platform Enabled by a 3D Printed Stamp for a Multimodular Sensor System. ACS Applied Materials & Interfaces, 2020, 12, 9824-9832.	4.0	56
81	Enhanced Electrical Properties of Reduced Graphene Oxide Multilayer Films by In-Situ Insertion of a TiO₂ Layer. ACS Nano, 2011, 5, 8884-8891.	7.3	55
82	Î²-Phase-Preferential blow-spun fabrics for wearable triboelectric nanogenerators and textile interactive interface. Nano Energy, 2020, 77, 105262.	8.2	55
83	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. ACS Applied Materials & Interfaces, 2017, 9, 44678-44686.	4.0	54
84	Nanoscopic Management of Molecular Packing and Orientation of Small Molecules by a Combination of Linear and Branched Alkyl Side Chains. ACS Nano, 2014, 8, 5988-6003.	7.3	52
85	Trap-induced photoresponse of solution-synthesized MoS₂. Nanoscale, 2016, 8, 9193-9200.	2.8	52
86	Recent Advances on Multivalued Logic Gates: A Materials Perspective. Advanced Science, 2021, 8, 2004216.	5.6	52
87	Gate-Tunable Synaptic Dynamics of Ferroelectric-Coupled Carbon-Nanotube Transistors. ACS Applied Materials & Interfaces, 2020, 12, 4707-4714.	4.0	51
88	Quantum Confinement Effects in Transferrable Silicon Nanomembranes and Their Applications on Unusual Substrates. Nano Letters, 2013, 13, 5600-5607.	4.5	49
89	High field-effect mobility pentacene thin-film transistors with nanoparticle polymer composite/polymer bilayer insulators. Applied Physics Letters, 2009, 94, .	1.5	48
90	Polyelectrolyte Interlayer for Ultra-Sensitive Organic Transistor Humidity Sensors. ACS Applied Materials & Interfaces, 2013, 5, 8591-8596.	4.0	48

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91	Electrolyteâ€Gated Graphene Schottky Barrier Transistors. Advanced Materials, 2015, 27, 5875-5881.	11.1	47
92	Large-Area Ti₃C₂T_x-MXene Coating: Toward Industrial-Scale Fabrication and Molecular Separation. ACS Nano, 2021, 15, 8860-8869.	7.3	47
93	High-Performance Stablen-Type Indenofluorenedione Field-Effect Transistors. Chemistry of Materials, 2011, 23, 4038-4044.	3.2	45
94	Graphene-Graphene Oxide Floating Gate Transistor Memory. Small, 2015, 11, 311-318.	5.2	44
95	Large-area niobium disulfide thin films as transparent electrodes for devices based on two-dimensional materials. Nanoscale, 2018, 10, 1056-1062.	2.8	44
96	Highly Sensitive and Reusable Membraneless Field-Effect Transistor (FET)-Type Tungsten Diselenide (WSe₂) Biosensors. ACS Applied Materials & Interfaces, 2018, 10, 17639-17645.	4.0	44
97	Artificial stimulus-response system capable of conscious response. Science Advances, 2021, 7, .	4.7	44
98	Highâ€Performance Perovskiteâ€Based Blue Lightâ€Emitting Diodes with Operational Stability by Using Organic Ammonium Cations as Passivating Agents. Advanced Functional Materials, 2021, 31, 2005553.	7.8	43
99	Allâ€Solutionâ€Processed Van der Waals Heterostructures for Waferâ€Scale Electronics. Advanced Materials, 2022, 34, e2106110.	11.1	43
100	Ultraclean and Direct Transfer of a Waferâ€Scale MoS₂ Thin Film onto a Plastic Substrate. Advanced Materials, 2017, 29, 1603928.	11.1	42
101	Electrically Controllable Molecularization of Terahertz Metaâ€Atoms. Advanced Materials, 2018, 30, e1802760.	11.1	42
102	Enhancement of Field-Effect Mobility and Stability of Poly(3-hexylthiophene) Field-Effect Transistors by Conformational Change. Journal of Physical Chemistry C, 2008, 112, 1705-1710.	1.5	41
103	Polymer Brush As a Facile Dielectric Surface Treatment for High-Performance, Stable, Soluble Acene-Based Transistors. Chemistry of Materials, 2010, 22, 5377-5382.	3.2	41
104	Electrospun smart fabrics that display pH-responsive tunable wettability. Soft Matter, 2012, 8, 10238.	1.2	41
105	Apparent pH sensitivity of solution-gated graphene transistors. Nanoscale, 2015, 7, 7540-7544.	2.8	41
106	Roomâ€Temperature Selfâ€Organizing Characteristics of Soluble Acene Fieldâ€Effect Transistors. Advanced Functional Materials, 2008, 18, 560-565.	7.8	40
107	Energy-Level Alignment at Interfaces Between Gold and Poly(3-hexylthiophene) Films with Two Different Molecular Structures. Electrochemical and Solid-State Letters, 2006, 9, G317.	2.2	39
108	Black phosphorus nonvolatile transistor memory. Nanoscale, 2016, 8, 9107-9112.	2.8	39

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109	Decoupling the Biasâ€Stressâ€Induced Charge Trapping in Semiconductors and Gateâ€Dielectrics of Organic Transistors Using a Double Stretchedâ€Exponential Formula. Advanced Functional Materials, 2013, 23, 690-696.	7.8	38
110	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. ACS Nano, 2016, 10, 11037-11043.	7.3	37
111	Capacitively Coupled Hybrid Ion Gel and Carbon Nanotube Thinâ€Film Transistors for Low Voltage Flexible Logic Circuits. Advanced Functional Materials, 2018, 28, 1802610.	7.8	37
112	Oxygenâ€Detecting Synaptic Device for Realization of Artificial Autonomic Nervous System for Maintaining Oxygen Homeostasis. Advanced Materials, 2020, 32, e2002653.	11.1	37
113	Enhancing Performance and Stability of Tin Halide Perovskite Light Emitting Diodes via Coordination Engineering of Lewis Acidâ€“Base Adducts. Advanced Functional Materials, 2021, 31, 2106974.	7.8	37
114	Enhancing crystallinity of C60 layer by thickness-control of underneath pentacene layer for high mobility C60/pentacene ambipolar transistors. Applied Physics Letters, 2013, 102, 043306.	1.5	35
115	Schottkyâ€Barrierâ€Controllable Graphene Electrode to Boost Rectification in Organic Vertical Pâ€“N Junction Photodiodes. Advanced Functional Materials, 2017, 27, 1704475.	7.8	35
116	In/Ga-Free, Inkjet-Printed Charge Transfer Doping for Solution-Processed ZnO. ACS Applied Materials & Interfaces, 2013, 5, 9765-9769.	4.0	33
117	Switchable Tack in Side-Chain Liquid Crystalline Polymersâ€. Macromolecules, 2003, 36, 2009-2014.	2.2	32
118	Crystallinity-Controlled Naphthalene-alt-diketopyrrolopyrrole Copolymers for High-Performance Ambipolar Field Effect Transistors. Journal of Physical Chemistry C, 2012, 116, 26204-26213.	1.5	32
119	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
120	Surface Energy Engineered, Highâ€Resolution Micropatterning of Solutionâ€Processed Reduced Graphene Oxide Thin Films. Advanced Materials, 2013, 25, 894-898.	11.1	32
121	Flexible and Mechanically Robust Organic Light-Emitting Diodes Based on Photopatternable Silver Nanowire Electrodes. Journal of Physical Chemistry C, 2016, 120, 22012-22018.	1.5	32
122	Biologically Plausible Artificial Synaptic Array: Replicating Ebbinghausâ€™ Memory Curve with Selective Attention. Advanced Materials, 2021, 33, e2007782.	11.1	32
123	A comprehensive overview on alkaline phosphatase targeting and reporting assays. Coordination Chemistry Reviews, 2022, 465, 214567.	9.5	32
124	High Crystalline Dithienosilole-Cored Small Molecule Semiconductor for Ambipolar Transistor and Nonvolatile Memory. ACS Applied Materials & Interfaces, 2014, 6, 6589-6597.	4.0	31
125	Organic Dye Graphene Hybrid Structures with Spectral Color Selectivity. Advanced Functional Materials, 2016, 26, 6593-6600.	7.8	31
126	Ambipolar transport based on CVD-synthesized ReSe ₂. 2D Materials, 2017, 4, 025014.	2.0	31

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127	Structureâ€“Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 40503-40515.	4.0	31
128	Tunable Charge Injection via Solution-Processed Reduced Graphene Oxide Electrode for Vertical Schottky Barrier Transistors. Chemistry of Materials, 2018, 30, 636-643.	3.2	31
129	Piezotronic graphene barristor: Efficient and interactive modulation of Schottky barrier. Nano Energy, 2018, 50, 598-605.	8.2	31
130	3Dâ€Printed Sugar Scaffold for Highâ€Precision and Highly Sensitive Active and Passive Wearable Sensors. Advanced Science, 2020, 7, 1902521.	5.6	31
131	Electroplated coreâ€“shell nanowire network electrodes for highly efficient organic light-emitting diodes. Nano Convergence, 2022, 9, 1.	6.3	31
132	Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. ACS Applied Materials & Interfaces, 2020, 12, 17799-17805.	4.0	30
133	Actively Operable Thermoresponsive Smart Windows for Reducing Energy Consumption. ACS Applied Materials & Interfaces, 2020, 12, 33838-33845.	4.0	30
134	Self-Organization Characteristics of Soluble Pentacene on Wettability-Controlled Patterned Substrate for Organic Field-Effect Transistors. Journal of Physical Chemistry C, 2010, 114, 2329-2333.	1.5	29
135	Counterion-Induced Reversibly Switchable Transparency in Smart Windows. ACS Nano, 2011, 5, 7397-7403.	7.3	29
136	Monolithic Metal Oxide Transistors. ACS Nano, 2015, 9, 4288-4295.	7.3	29
137	Organic field-effect transistors integrated with Ti₂CT_x electrodes. Nanoscale, 2018, 10, 5191-5197.	2.8	29
138	Ion-Gel-Gated Graphene Optical Modulator with Hysteretic Behavior. ACS Applied Materials & Interfaces, 2018, 10, 1836-1845.	4.0	29
139	Graphene nano-floating gate transistor memory on plastic. Nanoscale, 2014, 6, 15286-15292.	2.8	28
140	Metallic Grid Electrode Fabricated via Flow Coating for High-Performance Flexible Piezoelectric Nanogenerators. Journal of Physical Chemistry C, 2015, 119, 7802-7808.	1.5	28
141	Petal-Inspired Diffractive Grating on a Wavy Surface: Deterministic Fabrications and Applications to Colorizations and LED Devices. ACS Applied Materials & Interfaces, 2017, 9, 9935-9944.	4.0	28
142	Direct synthesis of large-area continuous ReS ₂ films on a flexible glass at low temperature. 2D Materials, 2017, 4, 025057.	2.0	28
143	Photosensitive Graphene Pâ€“N Junction Transistors and Ternary Inverters. ACS Applied Materials & Interfaces, 2018, 10, 12897-12903.	4.0	28
144	Vertically Stacked CVD-Grown 2D Heterostructure for Wafer-Scale Electronics. ACS Applied Materials & Interfaces, 2019, 11, 35444-35450.	4.0	27

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145	Double Negative Differential Resistance Device Based on Hafnium Disulfide/Pentacene Hybrid Structure. Advanced Science, 2020, 7, 2000991.	5.6	27
146	Comb-type polymer-hybridized MXene nanosheets dispersible in arbitrary polar, nonpolar, and ionic solvents. Science Advances, 2022, 8, eabl5299.	4.7	27
147	Interpenetrating polymer network dielectrics for high-performance organic field-effect transistors. Journal of Materials Chemistry, 2011, 21, 6968.	6.7	26
148	Electrical Transport through Single Nanowires of Dialkyl Perylene Diimide. Journal of Physical Chemistry C, 2013, 117, 10743-10749.	1.5	26
149	High Performance of Low Band Gap Polymer-Based Ambipolar Transistor Using Single-Layer Graphene Electrodes. ACS Applied Materials & Interfaces, 2015, 7, 6002-6012.	4.0	26
150	Printed In-Ga-Zn-O drop-based thin-film transistors sintered using intensely pulsed white light. RSC Advances, 2015, 5, 78655-78659.	1.7	26
151	Largeâ€Area Schottky Barrier Transistors Based on Vertically Stacked Grapheneâ€“Metal Oxide Heterostructures. Advanced Functional Materials, 2017, 27, 1700651.	7.8	26
152	Area-Selective Chemical Doping on Solution-Processed MoS₂ Thin-Film for Multi-Valued Logic Gates. Nano Letters, 2022, 22, 570-577.	4.5	26
153	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. Journal of Materials Chemistry, 2011, 21, 13068.	6.7	25
154	Correlation between Crystallinity, Charge Transport, and Electrical Stability in an Ambipolar Polymer Field-Effect Transistor Based on Poly(naphthalene-alt-diketopyrrolopyrrole). Journal of Physical Chemistry C, 2013, 117, 11479-11486.	1.5	25
155	Water-Gel for Gating Graphene Transistors. Nano Letters, 2014, 14, 2610-2616.	4.5	25
156	High-responsivity PtSe2 photodetector enhanced by photogating effect. Applied Physics Letters, 2021, 118, .	1.5	25
157	Evaluation of the Adhesion Properties of Inorganic Materials with High Surface Energies. Langmuir, 2004, 20, 10174-10178.	1.6	24
158	Control of the electrical and adhesion properties of metal/organic interfaces with self-assembled monolayers. Applied Physics Letters, 2005, 86, 171906.	1.5	24
159	Ladder-Type Silsesquioxane Copolymer Gate Dielectrics for High-Performance Organic Transistors and Inverters. Journal of Physical Chemistry C, 2016, 120, 3501-3508.	1.5	24
160	Light-transformable and -healable triboelectric nanogenerators. Nano Energy, 2017, 38, 412-418.	8.2	24
161	Improvement of efficiency of polymer solar cell by incorporation of the planar shaped monomer in low band gap polymer. Synthetic Metals, 2012, 162, 768-774.	2.1	23
162	Alkyl Side Chain Length Modulates the Electronic Structure and Electrical Characteristics of Poly(3-alkylthiophene) Thin Films. Journal of Physical Chemistry C, 2013, 117, 11764-11769.	1.5	23

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163	Polyol synthesis of silver nanostructures: Inducing the growth of nanowires by a heat-up process. Chemical Physics Letters, 2014, 602, 10-15.	1.2	23
164	Proton-Conductor-Gated MoS₂ Transistors with Room Temperature Electron Mobility of >100 cm² V^{â€“1} s^{â€“1}. Chemistry of Materials, 2018, 30, 4527-4535.	3.2	23
165	Organicâ€“inorganic hybrid perovskite electronics. Physical Chemistry Chemical Physics, 2020, 22, 13347-13357.	1.3	23
166	Metal nanowireâ€“polymer matrix hybrid layer for triboelectric nanogenerator. Nano Energy, 2019, 58, 227-233.	8.2	22
167	Aqueous-Alcohol-Processable High-Mobility Semiconducting Copolymers with Engineered Oligo(ethylene glycol) Side Chains. Chemistry of Materials, 2020, 32, 1111-1119.	3.2	22
168	Solvent-vapor-annealed Aâ€“Dâ€“A-type semicrystalline conjugated small molecules for flexible ambipolar field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 5698-5706.	2.7	21
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