Zhenan Bao

List of Publications by Year
in descending order

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735	139,362	37	102
papers	citations	190 h-index	350 g-index

762	762	762	73282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of Solution-Processed Reduced Graphene Oxide Films as Transparent Conductors. ACS Nano, 2008, 2, 463-470.	14.6	2,955
2	Skin-like pressure and strain sensors based on transparent elastic films of carbon nanotubes. Nature Nanotechnology, 2011, 6, 788-792.	31.5	2,839
3	Highly sensitive flexible pressure sensors with microstructured rubber dielectric layers. Nature Materials, 2010, 9, 859-864.	27.5	2,749
4	Pathways for practical high-energy long-cycling lithium metal batteries. Nature Energy, 2019, 4, 180-186.	39.5	2,101
5	25th Anniversary Article: The Evolution of Electronic Skin (Eâ€Skin): A Brief History, Design Considerations, and Recent Progress. Advanced Materials, 2013, 25, 5997-6038.	21.0	2,001
6	Pursuing prosthetic electronic skin. Nature Materials, 2016, 15, 937-950.	27.5	1,821
7	Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring. Nature Communications, 2013, 4, 1859.	12.8	1,713
8	Soluble and processable regioregular poly(3â€hexylthiophene) for thin film fieldâ€effect transistor applications with high mobility. Applied Physics Letters, 1996, 69, 4108-4110.	3.3	1,616
9	Skin electronics from scalable fabrication of an intrinsically stretchable transistor array. Nature, 2018, 555, 83-88.	27.8	1,588
10	Integrated Materials Design of Organic Semiconductors for Field-Effect Transistors. Journal of the American Chemical Society, 2013, 135, 6724-6746.	13.7	1,280
11	The rise of plastic bioelectronics. Nature, 2016, 540, 379-385.	27.8	1,280
12	An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. Nature Nanotechnology, 2012, 7, 825-832.	31.5	1,270
13	Large-scale complementary integrated circuits based on organic transistors. Nature, 2000, 403, 521-523.	27.8	1,239
14	An ultra-sensitive resistive pressure sensor based on hollow-sphere microstructure induced elasticity in conducting polymer film. Nature Communications, 2014, 5, 3002.	12.8	1,225
15	Solution-Processed Graphene/MnO₂ Nanostructured Textiles for High-Performance Electrochemical Capacitors. Nano Letters, 2011, 11, 2905-2911.	9.1	1,195
16	Ultra-high mobility transparent organic thin film transistors grown by an off-centre spin-coating method. Nature Communications, 2014, 5, 3005.	12.8	1,155
17	Stable Li-ion battery anodes by in-situ polymerization of conducting hydrogel to conformally coat silicon nanoparticles. Nature Communications, 2013, 4, 1943.	12.8	1,138
18	A highly stretchable autonomous self-healing elastomer. Nature Chemistry, 2016, 8, 618-624.	13.6	1,133

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19	Paper-like electronic displays: Large-area rubber-stamped plastic sheets of electronics and microencapsulated electrophoretic inks. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 4835-4840.	7.1	1,078
20	Enhancing the Supercapacitor Performance of Graphene/MnO₂ Nanostructured Electrodes by Conductive Wrapping. Nano Letters, 2011, 11, 4438-4442.	9.1	1,062
21	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. Nature Nanotechnology, 2014, 9, 233-239.	31.5	1,057
22	A review of fabrication and applications of carbon nanotube film-based flexible electronics. Nanoscale, 2013, 5, 1727.	5.6	1,037
23	Self-healing chemistry enables the stable operation of silicon microparticle anodes for high-energy lithium-ion batteries. Nature Chemistry, 2013, 5, 1042-1048.	13.6	1,031
24	Intrinsically stretchable and healable semiconducting polymer for organic transistors. Nature, 2016, 539, 411-415.	27.8	1,030
25	Highly Conductive and Transparent PEDOT:PSS Films with a Fluorosurfactant for Stretchable and Flexible Transparent Electrodes. Advanced Functional Materials, 2012, 22, 421-428.	14.9	1,026
26	Hierarchical nanostructured conducting polymer hydrogel with high electrochemical activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9287-9292.	7.1	1,025
27	A bioinspired flexible organic artificial afferent nerve. Science, 2018, 360, 998-1003.	12.6	982
28	Tuning charge transport in solution-sheared organic semiconductors using lattice strain. Nature, 2011, 480, 504-508.	27.8	981
29	Hybrid nanostructured materials for high-performance electrochemical capacitors. Nano Energy, 2013, 2, 213-234.	16.0	976
30	Patterning organic single-crystal transistor arrays. Nature, 2006, 444, 913-917.	27.8	963
31	A highly stretchable, transparent, and conductive polymer. Science Advances, 2017, 3, e1602076.	10.3	962
32	Electronic Skin: Recent Progress and Future Prospects for Skinâ€Attachable Devices for Health Monitoring, Robotics, and Prosthetics. Advanced Materials, 2019, 31, e1904765.	21.0	936
33	Side Chain Engineering in Solution-Processable Conjugated Polymers. Chemistry of Materials, 2014, 26, 604-615.	6.7	932
34	Organic Light-Emitting Diodes on Solution-Processed Graphene Transparent Electrodes. ACS Nano, 2010, 4, 43-48.	14.6	908
35	Highly stretchable polymer semiconductor films through the nanoconfinement effect. Science, 2017, 355, 59-64.	12.6	897
36	Solution coating of large-area organic semiconductor thin films with aligned single-crystalline domains. Nature Materials, 2013, 12, 665-671.	27.5	881

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37	Organic solar cells with solution-processed graphene transparent electrodes. Applied Physics Letters, 2008, 92, .	3.3	856
38	Synthetic Chemistry for Ultrapure, Processable, and High-Mobility Organic Transistor Semiconductors. Accounts of Chemical Research, 2001, 34, 359-369.	15.6	841
39	New Air-Stablen-Channel Organic Thin Film Transistors. Journal of the American Chemical Society, 1998, 120, 207-208.	13.7	836
40	Improving the Performance of Lithiumâ€“Sulfur Batteries by Conductive Polymer Coating. ACS Nano, 2011, 5, 9187-9193.	14.6	815
41	Tough and Waterâ€Insensitive Selfâ€Healing Elastomer for Robust Electronic Skin. Advanced Materials, 2018, 30, e1706846.	21.0	798
42	Robust and conductive two-dimensional metalâ”organic frameworks with exceptionally high volumetric and areal capacitance. Nature Energy, 2018, 3, 30-36.	39.5	786
43	Stretchable Organic Solar Cells. Advanced Materials, 2011, 23, 1771-1775.	21.0	754
44	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. Nature Communications, 2015, 6, 8011.	12.8	749
45	Organic fieldâ€effect transistors with high mobility based on copper phthalocyanine. Applied Physics Letters, 1996, 69, 3066-3068.	3.3	745
46	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. Nature Nanotechnology, 2018, 13, 1057-1065.	31.5	736
47	A skin-inspired organic digital mechanoreceptor. Science, 2015, 350, 313-316.	12.6	708
48	Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries. Nature Energy, 2020, 5, 526-533.	39.5	642
49	Siloxane-Terminated Solubilizing Side Chains: Bringing Conjugated Polymer Backbones Closer and Boosting Hole Mobilities in Thin-Film Transistors. Journal of the American Chemical Society, 2011, 133, 20130-20133.	13.7	628
50	Nanostructured conductive polypyrrole hydrogels as high-performance, flexible supercapacitor electrodes. Journal of Materials Chemistry A, 2014, 2, 6086-6091.	10.3	624
51	Highly Skinâ€Conformal Microhairy Sensor for Pulse Signal Amplification. Advanced Materials, 2015, 27, 634-640.	21.0	621
52	High-Performance Air-Stable n-Channel Organic Thin Film Transistors Based on Halogenated Perylene Bisimide Semiconductors. Journal of the American Chemical Society, 2009, 131, 6215-6228.	13.7	619
53	Biodegradable and flexible arterial-pulse sensor for the wireless monitoring of blood flow. Nature Biomedical Engineering, 2019, 3, 47-57.	22.5	580
54	Designing polymers for advanced battery chemistries. Nature Reviews Materials, 2019, 4, 312-330.	48.7	579

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55	Self-Sorted, Aligned Nanotube Networks for Thin-Film Transistors. Science, 2008, 321, 101-104.	12.6	571
56	A hierarchically patterned, bioinspired e-skin able to detect the direction of applied pressure for robotics. Science Robotics, 2018, 3, .	17.6	568
57	Crystalline Ultrasmooth Self-Assembled Monolayers of Alkylsilanes for Organic Field-Effect Transistors. Journal of the American Chemical Society, 2009, 131, 9396-9404.	13.7	562
58	Effect of Mesoscale Crystalline Structure on the Field-Effect Mobility of Regioregular Poly(3-hexyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	14.9	546
59	A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring. Advanced Materials, 2015, 27, 6954-6961.	21.0	544
60	Effects of Thermal Annealing Upon the Morphology of Polymerâ€“Fullerene Blends. Advanced Functional Materials, 2010, 20, 3519-3529.	14.9	539
61	Stretchable and self-healing polymers and devices for electronic skin. Progress in Polymer Science, 2013, 38, 1961-1977.	24.7	539
62	Morphology control strategies for solution-processed organic semiconductor thin films. Energy and Environmental Science, 2014, 7, 2145-2159.	30.8	535
63	High-Performance Plastic Transistors Fabricated by Printing Techniques. Chemistry of Materials, 1997, 9, 1299-1301.	6.7	525
64	Electronic Properties of Transparent Conductive Films of PEDOT:PSS on Stretchable Substrates. Chemistry of Materials, 2012, 24, 373-382.	6.7	503
65	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. Nature Biomedical Engineering, 2019, 3, 58-68.	22.5	499
66	Halogenated Materials as Organic Semiconductors. Chemistry of Materials, 2011, 23, 446-455.	6.7	489
67	Skin-inspired electronic devices. Materials Today, 2014, 17, 321-331.	14.2	487
68	Electronic sensing of vapors with organic transistors. Applied Physics Letters, 2001, 78, 2229-2231.	3.3	486
69	High-Mobility Field-Effect Transistors from Large-Area Solution-Grown Aligned C₆₀ Single Crystals. Journal of the American Chemical Society, 2012, 134, 2760-2765.	13.7	481
70	Stretchable Energyâ€Harvesting Tactile Electronic Skin Capable of Differentiating Multiple Mechanical Stimuli Modes. Advanced Materials, 2014, 26, 7324-7332.	21.0	481
71	Doped Organic Transistors. Chemical Reviews, 2016, 116, 13714-13751.	47.7	477
72	A stretchable and biodegradable strain and pressure sensor for orthopaedic application. Nature Electronics, 2018, 1, 314-321.	26.0	469

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73	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. Journal of the American Chemical Society, 2018, 140, 5280-5289.	13.7	464
74	Self-healing soft electronics. Nature Electronics, 2019, 2, 144-150.	26.0	464
75	Lithium Metal Anodes with an Adaptive â€œSolid-Liquidâ€•Interfacial Protective Layer. Journal of the American Chemical Society, 2017, 139, 4815-4820.	13.7	460
76	Stretchable Self-Healing Polymeric Dielectrics Cross-Linked Through Metalâ€“Ligand Coordination. Journal of the American Chemical Society, 2016, 138, 6020-6027.	13.7	453
77	Organic Semiconductor Growth and Morphology Considerations for Organic Thinâ€Film Transistors. Advanced Materials, 2010, 22, 3857-3875.	21.0	451
78	Tunable Flexible Pressure Sensors using Microstructured Elastomer Geometries for Intuitive Electronics. Advanced Functional Materials, 2014, 24, 5427-5434.	14.9	424
79	A wireless body area sensor network based on stretchable passive tags. Nature Electronics, 2019, 2, 361-368.	26.0	421
80	Continuous wireless pressure monitoring and mapping with ultra-small passive sensors for health monitoring and critical care. Nature Communications, 2014, 5, 5028.	12.8	418
81	Perylenediimide Nanowires and Their Use in Fabricating Field-Effect Transistors and Complementary Inverters. Nano Letters, 2007, 7, 2847-2853.	9.1	410
82	Transparent, Optical, Pressureâ€Sensitive Artificial Skin for Largeâ€Area Stretchable Electronics. Advanced Materials, 2012, 24, 3223-3227.	21.0	410
83	Skin-Inspired Electronics: An Emerging Paradigm. Accounts of Chemical Research, 2018, 51, 1033-1045.	15.6	407
84	Hierarchical N-Doped Carbon as CO₂ Adsorbent with High CO₂ Selectivity from Rationally Designed Polypyrrole Precursor. Journal of the American Chemical Society, 2016, 138, 1001-1009.	13.7	405
85	Multifunctional materials for implantable and wearable photonic healthcare devices. Nature Reviews Materials, 2020, 5, 149-165.	48.7	403
86	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. Journal of the American Chemical Society, 2017, 139, 11550-11558.	13.7	398
87	The Physical Chemistry of Organic Field-Effect Transistors. Journal of Physical Chemistry B, 2000, 104, 671-678.	2.6	396
88	Organic Thinâ€Film Transistors Fabricated on Resorbable Biomaterial Substrates. Advanced Materials, 2010, 22, 651-655.	21.0	384
89	Organic single-crystal field-effect transistors. Materials Today, 2007, 10, 20-27.	14.2	381
90	Flexible and Stretchable Devices. Advanced Materials, 2016, 28, 4177-4179.	21.0	378

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91	A Flexible Bimodal Sensor Array for Simultaneous Sensing of Pressure and Temperature. Advanced Materials, 2014, 26, 796-804.	21.0	375
92	High-performance sodiumâ€“organic battery by realizing four-sodium storage in disodium rhodizonate. Nature Energy, 2017, 2, 861-868.	39.5	372
93	Organic thin film transistors. Materials Today, 2004, 7, 20-27.	14.2	369
94	Thin Film Deposition, Patterning, and Printing in Organic Thin Film Transistors. Chemistry of Materials, 2004, 16, 4824-4840.	6.7	368
95	Materials and structural designs of stretchable conductors. Chemical Society Reviews, 2019, 48, 2946-2966.	38.1	367
96	Highly stable organic polymer field-effect transistor sensor for selective detection in the marine environment. Nature Communications, 2014, 5, 2954.	12.8	362
97	Introducing organic nanowire transistors. Materials Today, 2008, 11, 38-47.	14.2	359
98	Stretchable organic optoelectronic sensorimotor synapse. Science Advances, 2018, 4, eaat7387.	10.3	359
99	Stretchable, elastic materials and devices for solar energy conversion. Energy and Environmental Science, 2011, 4, 3314.	30.8	356
100	Synthesis, Crystal Structure, and Transistor Performance of Tetracene Derivatives. Journal of the American Chemical Society, 2004, 126, 15322-15323.	13.7	353
101	Use of a 1H-Benzoimidazole Derivative as an n-Type Dopant and To Enable Air-Stable Solution-Processed n-Channel Organic Thin-Film Transistors. Journal of the American Chemical Society, 2010, 132, 8852-8853.	13.7	353
102	Materials and Fabrication Needs for Low-Cost Organic Transistor Circuits. Advanced Materials, 2000, 12, 227-230.	21.0	351
103	Stabilization of Hexaaminobenzene in a 2D Conductive Metalâ€“Organic Framework for High Power Sodium Storage. Journal of the American Chemical Society, 2018, 140, 10315-10323.	13.7	351
104	A Stiff and Healable Polymer Based on Dynamicâ€Covalent Boroxine Bonds. Advanced Materials, 2016, 28, 8277-8282.	21.0	349
105	Biocompatible and totally disintegrable semiconducting polymer for ultrathin and ultralightweight transient electronics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5107-5112.	7.1	347
106	Mechanically tunable conductive interpenetrating network hydrogels that mimic the elastic moduli of biological tissue. Nature Communications, 2018, 9, 2740.	12.8	344
107	Artificial multimodal receptors based on ion relaxation dynamics. Science, 2020, 370, 961-965.	12.6	343
108	Controlled Deposition of Crystalline Organic Semiconductors for Fieldâ€Effectâ€Transistor Applications. Advanced Materials, 2009, 21, 1217-1232.	21.0	342

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109	Electronic skins and machine learning for intelligent soft robots. Science Robotics, 2020, 5, .	17.6	339
110	A Crystalâ€Engineered Hydrogenâ€Bonded Octachloroperylene Diimide with a Twisted Core: An nâ€Channel Organic Semiconductor. Angewandte Chemie - International Edition, 2010, 49, 740-743.	13.8	337
111	Rational solvent molecule tuning for high-performance lithium metal battery electrolytes. Nature Energy, 2022, 7, 94-106.	39.5	336
112	Light amplification in organic thin films using cascade energy transfer. Nature, 1997, 389, 466-469.	27.8	334
113	Chlorination: A General Route toward Electron Transport in Organic Semiconductors. Journal of the American Chemical Society, 2009, 131, 3733-3740.	13.7	334
114	Selective dispersion of high purity semiconducting single-walled carbon nanotubes with regioregular poly(3-alkylthiophene)s. Nature Communications, 2011, 2, 541.	12.8	333
115	Organic smart pixels. Applied Physics Letters, 1998, 73, 142-144.	3.3	330
116	Water-stable organic transistors and their application in chemical and biological sensors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12134-12139.	7.1	327
117	The meniscus-guided deposition of semiconducting polymers. Nature Communications, 2018, 9, 534.	12.8	324
118	From computational discovery to experimental characterization of a high hole mobility organic crystal. Nature Communications, 2011, 2, 437.	12.8	321
119	High Performance Allâ€Polymer Solar Cell via Polymer Sideâ€Chain Engineering. Advanced Materials, 2014, 26, 3767-3772.	21.0	320
120	Concentrated mixed cation acetate â€œwater-in-saltâ€•solutions as green and low-cost high voltage electrolytes for aqueous batteries. Energy and Environmental Science, 2018, 11, 2876-2883.	30.8	315
121	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2018, 140, 7851-7859.	13.7	310
122	Printable organic and polymeric semiconducting materials and devices. Journal of Materials Chemistry, 1999, 9, 1895-1904.	6.7	308
123	Effects of Polymer Coatings on Electrodeposited Lithium Metal. Journal of the American Chemical Society, 2018, 140, 11735-11744.	13.7	307
124	High-Performance Organic Single-Crystal Transistors on Flexible Substrates. Advanced Materials, 2006, 18, 2320-2324.	21.0	306
125	Diketopyrrolopyrroleâ€Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. Advanced Materials, 2015, 27, 5184-5190.	21.0	305
126	Biodegradable Polymeric Materials in Degradable Electronic Devices. ACS Central Science, 2018, 4, 337-348.	11.3	302

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127	Conductance of Small Molecular Junctions. Physical Review Letters, 2002, 88, 226801.	7.8	298
128	Exploration of the Stille Coupling Reaction for the Synthesis of Functional Polymers. Journal of the American Chemical Society, 1995, 117, 12426-12435.	13.7	297
129	Conducting AFM and 2D GIXD Studies on Pentacene Thin Films. Journal of the American Chemical Society, 2005, 127, 11542-11543.	13.7	291
130	Microengineering Pressure Sensor Active Layers for Improved Performance. Advanced Functional Materials, 2020, 30, 2003491.	14.9	290
131	Chemical and Engineering Approaches To Enable Organic Field-Effect Transistors for Electronic Skin Applications. Accounts of Chemical Research, 2012, 45, 361-371.	15.6	287
132	Flexible Wireless Temperature Sensors Based on Ni Microparticleâ€Filled Binary Polymer Composites. Advanced Materials, 2013, 25, 850-855.	21.0	281
133	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. ACS Energy Letters, 2016, 1, 1247-1255.	17.4	281
134	A Threeâ€Dimensionally Interconnected Carbon Nanotubeâ€“Conducting Polymer Hydrogel Network for Highâ€Performance Flexible Battery Electrodes. Advanced Energy Materials, 2014, 4, 1400207.	19.5	280
135	An Elastic Autonomous Selfâ€Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. Advanced Materials, 2018, 30, e1801435.	21.0	280
136	Highâ€Performance Organic Thinâ€Film Transistors through Solutionâ€Sheared Deposition of Smallâ€Molecule Organic Semiconductors. Advanced Materials, 2008, 20, 2588-2594.	21.0	275
137	Fabrication of Field-Effect Transistors from Hexathiapentacene Single-Crystal Nanowires. Nano Letters, 2007, 7, 668-675.	9.1	272
138	Rational Design of Capacitive Pressure Sensors Based on Pyramidal Microstructures for Specialized Monitoring of Biosignals. Advanced Functional Materials, 2020, 30, 1903100.	14.9	265
139	Grapheneâ€“sponges as high-performance low-cost anodes for microbial fuel cells. Energy and Environmental Science, 2012, 5, 6862.	30.8	264
140	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. Nature Electronics, 2018, 1, 183-190.	26.0	263
141	Oligofluoreneâ^'Thiophene Derivatives as High-Performance Semiconductors for Organic Thin Film Transistors. Chemistry of Materials, 2003, 15, 1778-1787.	6.7	258
142	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. Nature Communications, 2019, 10, 1164.	12.8	258
143	Ambipolar, High Performance, Acene-Based Organic Thin Film Transistors. Journal of the American Chemical Society, 2008, 130, 6064-6065.	13.7	256
144	Wireless smart contact lens for diabetic diagnosis and therapy. Science Advances, 2020, 6, eaba3252.	10.3	255

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145	Fast and reversible thermoresponsive polymer switching materials for safer batteries. Nature Energy, 2016, 1, .	39.5	253
146	Multi-scale ordering in highly stretchable polymer semiconducting films. Nature Materials, 2019, 18, 594-601.	27.5	251
147	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. Nature Communications, 2019, 10, 5384.	12.8	249
148	Ultrahigh electrical conductivity in solution-sheared polymeric transparent films. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14138-14143.	7.1	248
149	3D Porous Spongeâ€Inspired Electrode for Stretchable Lithiumâ€Ion Batteries. Advanced Materials, 2016, 28, 3578-3583.	21.0	247
150	Conjugated liquid-crystalline polymers - soluble and fusible poly(phenylenevinylene) by the Heck coupling reaction. Macromolecules, 1993, 26, 5281-5286.	4.8	244
151	Selective metal deposition at graphene line defects by atomic layer deposition. Nature Communications, 2014, 5, 4781.	12.8	243
152	Polypyrrole/Agarose-Based Electronically Conductive and Reversibly Restorable Hydrogel. ACS Nano, 2014, 8, 10066-10076.	14.6	236
153	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 311-317.	6.7	236
154	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. Advanced Materials, 2016, 28, 4441-4448.	21.0	234
155	Ultratransparent and stretchable graphene electrodes. Science Advances, 2017, 3, e1700159.	10.3	231
156	Coreâ€Fluorinated Perylene Bisimide Dyes: Air Stable nâ€Channel Organic Semiconductors for Thin Film Transistors with Exceptionally High Onâ€toâ€Off Current Ratios. Advanced Materials, 2007, 19, 3692-3695.	21.0	230
157	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics. Science, 2022, 375, 1411-1417.	12.6	230
158	Humidity effect on electrical performance of organic thin-film transistors. Applied Physics Letters, 2005, 86, 042105.	3.3	229
159	Patterned Growth of Large Oriented Organic Semiconductor Single Crystals on Self-Assembled Monolayer Templates. Journal of the American Chemical Society, 2005, 127, 12164-12165.	13.7	229
160	The Role of OTS Density on Pentacene and C₆₀ Nucleation, Thin Film Growth, and Transistor Performance. Advanced Functional Materials, 2009, 19, 1962-1970.	14.9	227
161	Liquid-Crystalline Semiconducting Copolymers with Intramolecular Donorâ"Acceptor Building Blocks for High-Stability Polymer Transistors. Journal of the American Chemical Society, 2009, 131, 6124-6132.	13.7	225
162	A New Class of Ionically Conducting Fluorinated Ether Electrolytes with High Electrochemical Stability. Journal of the American Chemical Society, 2020, 142, 7393-7403.	13.7	225

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163	Ionically Conductive Selfâ€Healing Binder for Low Cost Si Microparticles Anodes in Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703138.	19.5	224
164	Printing Process Suitable for Reel-to-Reel Production of High-Performance Organic Transistors and Circuits. Advanced Materials, 1999, 11, 741-745.	21.0	223
165	Correlating Carrier Type with Frontier Molecular Orbital Energy Levels in Organic Thin Film Transistors of Functionalized Acene Derivatives. Journal of the American Chemical Society, 2009, 131, 5264-5273.	13.7	221
166	Highâ€Performance Airâ€Stable nâ€Type Organic Transistors Based on Coreâ€Chlorinated Naphthalene Tetracarboxylic Diimides. Advanced Functional Materials, 2010, 20, 2148-2156.	14.9	221
167	A Rapid and Efficient Selfâ€Healing Thermoâ€Reversible Elastomer Crosslinked with Graphene Oxide. Advanced Materials, 2013, 25, 5785-5790.	21.0	221
168	Flow-enhanced solution printing of all-polymer solar cells. Nature Communications, 2015, 6, 7955.	12.8	221
169	Fabrication of low-cost electronic biosensors. Materials Today, 2009, 12, 12-20.	14.2	219
170	Solution-processed, high-performance n-channel organic microwire transistors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6065-6070.	7.1	218
171	Cross-Linked Polymer Gate Dielectric Films for Low-Voltage Organic Transistors. Chemistry of Materials, 2009, 21, 2292-2299.	6.7	218
172	Highly ordered vacuum-deposited thin films of metallophthalocyanines and their applications in field-effect transistors. Advanced Materials, 1997, 9, 42-44.	21.0	216
173	Rollâ€toâ€Roll Printed Largeâ€Area Allâ€Polymer Solar Cells with 5% Efficiency Based on a Low Crystallinity Conjugated Polymer Blend. Advanced Energy Materials, 2017, 7, 1602742.	19.5	214
174	Air Stablen-Channel Organic Semiconductors for Thin Film Transistors Based on Fluorinated Derivatives of Perylene Diimides. Chemistry of Materials, 2007, 19, 816-824.	6.7	213
175	High-Performance Organic Semiconductors:Â Asymmetric Linear Acenes Containing Sulphur. Journal of the American Chemical Society, 2006, 128, 16002-16003.	13.7	209
176	Stretchable electrochemical energy storage devices. Chemical Society Reviews, 2020, 49, 4466-4495.	38.1	209
177	Oxadiazole-Containing Conjugated Polymers for Light-Emitting Diodes. Advanced Materials, 1998, 10, 680-684.	21.0	208
178	Ultrahigh Surface Area Three-Dimensional Porous Graphitic Carbon from Conjugated Polymeric Molecular Framework. ACS Central Science, 2015, 1, 68-76.	11.3	207
179	Highâ€Arealâ€Capacity Silicon Electrodes with Lowâ€Cost Silicon Particles Based on Spatial Control of Selfâ€Healing Binder. Advanced Energy Materials, 2015, 5, 1401826.	19.5	207
180	High Field-Effect Mobility Oligofluorene Derivatives with High Environmental Stability. Journal of the American Chemical Society, 2001, 123, 9214-9215.	13.7	206

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181	Tetramethylpentacene: Remarkable Absence of Steric Effect on Field Effect Mobility. Advanced Materials, 2003, 15, 1090-1093.	21.0	206
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