Magnus Berggren

List of Publications by Year
in descending order

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348 papers	28,021 citations	4120 87 h-index	6979 154 g-index
366 all docs	366 docs citations	366 times ranked	18994 citing authors

#	Article	IF	Citations
1	Oxygen reduction reaction at conducting polymer electrodes in a wider context: Insights from modelling concerning outer and inner sphere mechanisms. Electrochemical Science Advances, 2023, 3, .	1.2	4
2	Seamless integration of bioelectronic interface in an animal model via in vivo polymerization of conjugated oligomers. Bioactive Materials, 2022, 10, 107-116.	8.6	10
3	Synergistic Effect of Multiâ€Walled Carbon Nanotubes and Ladderâ€Type Conjugated Polymers on the Performance of Nâ€Type Organic Electrochemical Transistors. Advanced Functional Materials, 2022, 32, 2106447.	7.8	14
4	Influence of Molecular Weight on the Organic Electrochemical Transistor Performance of Ladderâ€Type Conjugated Polymers. Advanced Materials, 2022, 34, e2106235.	11.1	86
5	Biostack: Nontoxic Metabolite Detection from Live Tissue. Advanced Science, 2022, 9, e2101711.	5.6	8
6	The effect of crosslinking on ion transport in nanocellulose-based membranes. Carbohydrate Polymers, 2022, 278, 118938.	5.1	11
7	Ultrathin Paper Microsupercapacitors for Electronic Skin Applications. Advanced Materials Technologies, 2022, 7, .	3.0	15
8	In Vivo Organic Bioelectronics for Neuromodulation. Chemical Reviews, 2022, 122, 4826-4846.	23.0	55
9	An Electroactive Filter with Tunable Porosity Based on Glycolated Polythiophene. Small Science, 2022, 2, .	5.8	3
10	On the Origin of Seebeck Coefficient Inversion in Highly Doped Conducting Polymers. Advanced Functional Materials, 2022, 32, .	7.8	18
11	Towards printable water-in-polymer salt electrolytes for high power organic batteries. Journal of Power Sources, 2022, 524, 231103.	4.0	11
12	Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. Nature Biomedical Engineering, 2022, 6, 741-753.	11.6	59
13	Organic electrochemical neurons and synapses with ion mediated spiking. Nature Communications, 2022, 13, 901.	5.8	110
14	Method Matters: Exploring Alkoxysulfonate-Functionalized Poly(3,4-ethylenedioxythiophene) and Its Unintentional Self-Aggregating Copolymer toward Injectable Bioelectronics. Chemistry of Materials, 2022, 34, 2752-2763.	3.2	5
15	Grapheneâ€Enabled Electrophoretic Ion Pump Delivery Devices. Advanced Materials Interfaces, 2022, 9, .	1.9	2
16	Lowâ€Power/Highâ€Gain Flexible Complementary Circuits Based on Printed Organic Electrochemical Transistors. Advanced Electronic Materials, 2022, 8, .	2.6	39
17	Rational Materials Design for In Operando Electropolymerization of Evolvable Organic Electrochemical Transistors. Advanced Functional Materials, 2022, 32, .	7.8	6
18	Utilizing native lignin as redox-active material in conductive wood for electronic and energy storage applications. Journal of Materials Chemistry A, 2022, 10, 15677-15688.	5.2	11

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19	Negativelyâ€Doped Conducting Polymers for Oxygen Reduction Reaction. Advanced Energy Materials, 2021, 11, 2002664.	10.2	28
20	Design and Operation of Hybrid Microfluidic Iontronic Probes for Regulated Drug Delivery. Advanced Materials Technologies, 2021, 6, 2001006.	3.0	6
21	Synthesis and Electronic Properties of Diketopyrrolopyrrole-Based Polymers with and without Ring-Fusion. Macromolecules, 2021, 54, 970-980.	2.2	23
22	An electronic proton-trapping ion pump for selective drug delivery. Science Advances, 2021, 7, .	4.7	22
23	Modelling of heterogeneous ion transport in conducting polymer supercapacitors. Journal of Materials Chemistry A, 2021, 9, 2184-2194.	5.2	21
24	Expanding the understanding of organic electrochemical transistor function. Applied Physics Letters, 2021, 118, .	1.5	16
25	The Role of Relative Capacitances in Impedance Sensing with Organic Electrochemical Transistors. Advanced Electronic Materials, 2021, 7, 2001173.	2.6	16
26	A Biomimetic Evolvable Organic Electrochemical Transistor. Advanced Electronic Materials, 2021, 7, 2001126.	2.6	26
27	Controlling pH by electronic ion pumps to fight fibrosis. Applied Materials Today, 2021, 22, 100936.	2.3	9
28	A high-conductivity n-type polymeric ink for printed electronics. Nature Communications, 2021, 12, 2354.	5.8	120
29	Targeted Chemotherapy of Glioblastoma Spheroids with an Iontronic Pump. Advanced Materials Technologies, 2021, 6, 2001302.	3.0	10
30	Controlling Electrochemically Induced Volume Changes in Conjugated Polymers by Chemical Design: from Theory to Devices. Advanced Functional Materials, 2021, 31, 2100723.	7.8	35
31	Formation of Supported Lipid Bilayers Derived from Vesicles of Various Compositional Complexity on Conducting Polymer/Silica Substrates. Langmuir, 2021, 37, 5494-5505.	1.6	6
32	A digital nervous system aiming toward personalized IoT healthcare. Scientific Reports, 2021, 11, 7757.	1.6	15
33	Investigating the role of polymer size on ionic conductivity in free-standing hyperbranched polyelectrolyte membranes. Polymer, 2021, 223, 123664.	1.8	7
34	Targeted Chemotherapy: Targeted Chemotherapy of Glioblastoma Spheroids with an Iontronic Pump (Adv. Mater. Technol. 5/2021). Advanced Materials Technologies, 2021, 6, 2170026.	3.0	0
35	Nernstâ€“Planckâ€“Poisson analysis of electrolyte-gated organic field-effect transistors. Journal Physics D: Applied Physics, 2021, 54, 415101.	1.3	9
36	Autonomous Microcapillary Drug Delivery System Selfâ€Powered by a Flexible Energy Harvester. Advanced Materials Technologies, 2021, 6, 2100526.	3.0	7

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37	Tunable Structural Color Images by UVâ€Patterned Conducting Polymer Nanofilms on Metal Surfaces. Advanced Materials, 2021, 33, e2102451.	11.1	34
38	Sensing Inflammation Biomarkers with Electrolyteâ€Gated Organic Electronic Transistors. Advanced Healthcare Materials, 2021, 10, e2100955.	3.9	16
39	Designing Inverters Based on Screen Printed Organic Electrochemical Transistors Targeting Lowâ€Voltage and Highâ€Frequency Operation. Advanced Materials Technologies, 2021, 6, 2100555.	3.0	11
40	Tunable Structural Color Images by UVâ€Patterned Conducting Polymer Nanofilms on Metal Surfaces (Adv. Mater. 33/2021). Advanced Materials, 2021, 33, 2170261.	11.1	5
41	Volumetric Double-Layer Charge Storage in Composites Based on Conducting Polymer PEDOT and Cellulose. ACS Applied Energy Materials, 2021, 4, 8629-8640.	2.5	10
42	Reflective and transparent cellulose-based passive radiative coolers. Cellulose, 2021, 28, 9383-9393.	2.4	42
43	Diurnal inÂvivo xylem sap glucose and sucrose monitoring using implantable organic electrochemical transistor sensors. IScience, 2021, 24, 101966.	1.9	57
44	Electrolyte-gated transistors for enhanced performance bioelectronics. Nature Reviews Methods Primers, 2021, 1, .	11.8	172
45	Biohybrid plants with electronic roots via in vivo polymerization of conjugated oligomers. Materials Horizons, 2021, 8, 3295-3305.	6.4	14
46	Realâ€Time Monitoring of Glucose Export from Isolated Chloroplasts Using an Organic Electrochemical Transistor. Advanced Materials Technologies, 2020, 5, 1900262.	3.0	58
47	Reversible Electronic Solidâ€“Gel Switching of a Conjugated Polymer. Advanced Science, 2020, 7, 1901144.	5.6	45
48	Light-sensitive charge storage medium with spironaphthooxazine molecule-polymer blends for dual-functional organic phototransistor memory. Organic Electronics, 2020, 78, 105554.	1.4	8
49	Solar Heatâ€Enhanced Energy Conversion in Devices Based on Photosynthetic Membranes and PEDOT:PSSâ€Nanocellulose Electrodes. Advanced Sustainable Systems, 2020, 4, 1900100.	2.7	11
50	Miniaturized Ionic Polarization Diodes for Neurotransmitter Release at Synaptic Speeds. Advanced Materials Technologies, 2020, 5, 1900750.	3.0	17
51	Transcranial Electrical Stimulation and Recording of Brain Activity using Freestanding Plantâ€Based Conducting Polymer Hydrogel Composites. Advanced Materials Technologies, 2020, 5, 1900652.	3.0	22
52	Flexible Printed Organic Electrochemical Transistors for the Detection of Uric Acid in Artificial Wound Exudate. Advanced Materials Interfaces, 2020, 7, 2001218.	1.9	50
53	Highly Conducting Nanographite-Filled Paper Fabricated via Standard Papermaking Techniques. ACS Applied Materials & Interfaces, 2020, 12, 48828-48835.	4.0	8
54	Ionâ€Selective Electrocatalysis on Conducting Polymer Electrodes: Improving the Performance of Redox Flow Batteries. Advanced Functional Materials, 2020, 30, 2007009.	7.8	21

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55	Transparent nanocellulose metamaterial enables controlled optical diffusion and radiative cooling. Journal of Materials Chemistry C, 2020, 8, 11687-11694.	2.7	45
56	Spray-coated paper supercapacitors. Npj Flexible Electronics, 2020, 4, .	5.1	50
57	Effect of Sulfonation Level on Lignin/Carbon Composite Electrodes for Large-Scale Organic Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 17933-17944.	3.2	15
58	Thiophene-Based Trimers for In Vivo Electronic Functionalization of Tissues. ACS Applied Electronic Materials, 2020, 2, 4065-4071.	2.0	19
59	Sequential Doping of Ladder-Type Conjugated Polymers for Thermally Stable n-Type Organic Conductors. ACS Applied Materials & Interfaces, 2020, 12, 53003-53011.	4.0	41
60	Side Chain Redistribution as a Strategy to Boost Organic Electrochemical Transistor Performance and Stability. Advanced Materials, 2020, 32, e2002748.	11.1	181
61	High yield manufacturing of fully screen-printed organic electrochemical transistors. Npj Flexible Electronics, 2020, 4, .	5.1	52
62	Doped Conjugated Polymer Enclosing a Redox Polymer: Wiring Polyquinones with Poly(3,4â€Ethylenedioxythiophene). Advanced Energy and Sustainability Research, 2020, 1, 2000027.	2.8	14
63	Organic Microbial Electrochemical Transistor Monitoring Extracellular Electron Transfer. Advanced Science, 2020, 7, 2000641.	5.6	34
64	Enzyme-assisted in vivo polymerisation of conjugated oligomer based conductors. Journal of Materials Chemistry B, 2020, 8, 4221-4227.	2.9	23
65	Ground-state electron transfer in all-polymer donorâ€“acceptor heterojunctions. Nature Materials, 2020, 19, 738-744.	13.3	111
66	Allâ€Solidâ€State Organic Schmitt Trigger Implemented by Twin Twoâ€inâ€One Ferroelectric Memory Transistors. Advanced Electronic Materials, 2020, 6, 1901263.	2.6	5
67	Monolithic integration of display driver circuits and displays manufactured by screen printing. Flexible and Printed Electronics, 2020, 5, 024001.	1.5	22
68	Conjugated Polymers: Reversible Electronic Solidâ€“Gel Switching of a Conjugated Polymer (Adv. Sci.) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.6	1
69	Electronic Structures and Optical Properties of p-Type/n-Type Polymer Blends: Density Functional Theory Study. Journal of Physical Chemistry C, 2020, 124, 9203-9214.	1.5	6
70	Electrogeneration of Hydrogen Peroxide via Oxygen Reduction on Polyindole Films. Journal of the Electrochemical Society, 2020, 167, 086502.	1.3	13
71	Interfaces in organic electronics. Nature Reviews Materials, 2019, 4, 627-650.	23.3	237
72	Controlling the Organization of PEDOT:PSS on Cellulose Structures. ACS Applied Polymer Materials, 2019, 1, 2342-2351.	2.0	40

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73	Wireless organic electronic ion pumps driven by photovoltaics. Npj Flexible Electronics, 2019, 3, .	5.1	31
74	Understanding the characteristics of conducting polymer-redox biopolymer supercapacitors. Journal of Materials Chemistry A, 2019, 7, 23973-23980.	5.2	25
75	Improving the Performance of Paper Supercapacitors Using Redox Molecules from Plants. Advanced Sustainable Systems, 2019, 3, 1900050.	2.7	23
76	Formation of Monolithic Ion-Selective Transport Media Based on â€œClickâ€•Cross-Linked Hyperbranched Polyglycerol. Frontiers in Chemistry, 2019, 7, 484.	1.8	9
77	A ferroelectric polymer introduces addressability in electrophoretic display cells. Flexible and Printed Electronics, 2019, 4, 035004.	1.5	4
78	Modulating Inflammation in Monocytes Using Capillary Fiber Organic Electronic Ion Pumps. Advanced Healthcare Materials, 2019, 8, e1900813.	3.9	28
79	Implantable Organic Electronic Ion Pump Enables ABA Hormone Delivery for Control of Stomata in an Intact Tobacco Plant. Small, 2019, 15, e1902189.	5.2	33
80	All-printed large-scale integrated circuits based on organic electrochemical transistors. Nature Communications, 2019, 10, 5053.	5.8	156
81	Implantable Bioelectronics: Implantable Organic Electronic Ion Pump Enables ABA Hormone Delivery for Control of Stomata in an Intact Tobacco Plant (Small 43/2019). Small, 2019, 15, 1970233.	5.2	1
82	Impact of Singly Occupied Molecular Orbital Energy on the n-Doping Efficiency of Benzimidazole Derivatives. ACS Applied Materials & Interfaces, 2019, 11, 37981-37990.	4.0	32
83	An Evolvable Organic Electrochemical Transistor for Neuromorphic Applications. Advanced Science, 2019, 6, 1801339.	5.6	138
84	Exploring Hydrogen Storage in PEDOT: A Computational Study. Journal of Physical Chemistry C, 2019, 123, 2066-2074.	1.5	3
85	Organic Electrochemical Devices: Ion Electronâ€“Coupled Functionality in Materials and Devices Based on Conjugated Polymers (Adv. Mater. 22/2019). Advanced Materials, 2019, 31, 1970160.	11.1	2
86	Two-in-One Device with Versatile Compatible Electrical Switching or Data Storage Functions Controlled by the Ferroelectricity of P(VDF-TrFE) via Photocrosslinking. ACS Applied Materials & Interfaces, 2019, 11, 25358-25368.	4.0	7
87	Twinning Lignosulfonate with a Conducting Polymer via Counterâ€Ion Exchange for Largeâ€Scale Electrical Storage. Advanced Sustainable Systems, 2019, 3, 1900039.	2.7	17
88	Electronic Structures and Optical Absorption of N-Type Conducting Polymers at Different Doping Levels. Journal of Physical Chemistry C, 2019, 123, 15467-15476.	1.5	23
89	Large-area printed organic electronic ion pumps. Flexible and Printed Electronics, 2019, 4, 022001.	1.5	17
90	Capillary-Fiber Based Electrophoretic Delivery Device. ACS Applied Materials & Interfaces, 2019, 11, 14200-14207.	4.0	34

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91	Overcoming transport limitations in miniaturized electrophoretic delivery devices. Lab on A Chip, 2019, 19, 1427-1435.	3.1	26
92	Optoelectronic control of single cells using organic photocapacitors. Science Advances, 2019, 5, eaav5265.	4.7	82
93	A Multiparameter Pressureâ€“Temperatureâ€“Humidity Sensor Based on Mixed Ionicâ€“Electronic Cellulose Aerogels. Advanced Science, 2019, 6, 1802128.	5.6	114
94	Greyscale and Paper Electrochromic Polymer Displays by UV Patterning. Polymers, 2019, 11, 267.	2.0	23
95	Electric Transport Properties in PEDOT Thin Films. , 2019, , 45-128.		12
96	The intrinsic volumetric capacitance of conducting polymers: pseudo-capacitors or double-layer supercapacitors?. RSC Advances, 2019, 9, 42498-42508.	1.7	48
97	Electrochemical hydrogen production on a metal-free polymer. Sustainable Energy and Fuels, 2019, 3, 3387-3398.	2.5	24
98	PEDOTâ€Cellulose Gas Diffusion Electrodes for Disposable Fuel Cells. Advanced Sustainable Systems, 2019, 3, 1900097.	2.7	3
99	Polarons, Bipolarons, And Absorption Spectroscopy of PEDOT. ACS Applied Polymer Materials, 2019, 1, 83-94.	2.0	217
100	An Ionic Capacitor for Integrated Iontronic Circuits. Advanced Materials Technologies, 2019, 4, 1800494.	3.0	24
101	Anisotropic conductivity of Cellulose-PEDOT:PSS composite materials studied with a generic 3D four-point probe tool. Organic Electronics, 2019, 66, 258-264.	1.4	9
102	Ion Electronâ€“Coupled Functionality in Materials and Devices Based on Conjugated Polymers. Advanced Materials, 2019, 31, e1805813.	11.1	118
103	Supercapacitors on demand: all-printed energy storage devices with adaptable design. Flexible and Printed Electronics, 2019, 4, 015006.	1.5	21
104	Electrocatalytic Production of Hydrogen Peroxide with Poly(3,4â€ethylenedioxythiophene) Electrodes. Advanced Sustainable Systems, 2019, 3, 1800110.	2.7	69
105	How conducting polymer electrodes operate. Science, 2019, 364, 233-234.	6.0	133
106	Controlling the electrochromic properties of conductive polymers using UV-light. Journal of Materials Chemistry C, 2018, 6, 4663-4670.	2.7	36
107	Hybrid Plasmonic and Pyroelectric Harvesting of Light Fluctuations. Advanced Optical Materials, 2018, 6, 1701051.	3.6	15
108	Organic electrochemical transistors. Nature Reviews Materials, 2018, 3, .	23.3	1,143

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109	Nanofibrillated Celluloseâ€Based Electrolyte and Electrode for Paperâ€Based Supercapacitors. Advanced Sustainable Systems, 2018, 2, 1700121.	2.7	38
110	Complementary Logic Circuits Based on Highâ€Performance nâ€Type Organic Electrochemical Transistors. Advanced Materials, 2018, 30, 1704916.	11.1	206
111	A Decade of Iontronic Delivery Devices. Advanced Materials Technologies, 2018, 3, 1700360.	3.0	106
112	Boosting the capacity of all-organic paper supercapacitors using wood derivatives. Journal of Materials Chemistry A, 2018, 6, 145-152.	5.2	74
113	EGOFET Peptide Aptasensor for Labelâ€Free Detection of Inflammatory Cytokines in Complex Fluids. Advanced Biology, 2018, 2, 1700072.	3.0	63
114	Correlating the Seebeck coefficient of thermoelectric polymer thin films to their charge transport mechanism. Organic Electronics, 2018, 52, 335-341.	1.4	73
115	PEDOT:PSS-based Multilayer Bacterial-Composite Films for Bioelectronics. Scientific Reports, 2018, 8, 15293.	1.6	69
116	Micropatterning of organic electronic materials using a facile aqueous photolithographic process. AIP Advances, 2018, 8, 105116.	0.6	7
117	A Chemically Doped Naphthalenediimideâ€Bithiazole Polymer for nâ€Type Organic Thermoelectrics. Advanced Materials, 2018, 30, e1801898.	11.1	165
118	n-Type organic electrochemical transistors: materials and challenges. Journal of Materials Chemistry C, 2018, 6, 11778-11784.	2.7	122
119	Iontronics: A Decade of Iontronic Delivery Devices (Adv. Mater. Technol. 5/2018). Advanced Materials Technologies, 2018, 3, 1870018.	3.0	3
120	Label free urea biosensor based on organic electrochemical transistors. Flexible and Printed Electronics, 2018, 3, 024001.	1.5	43
121	Blowin' in the Wind - a Source of Energy: Hybrid Plasmonic and Pyroelectric Harvesting of Light Fluctuations (Advanced Optical Materials 11/2018). Advanced Optical Materials, 2018, 6, 1870043.	3.6	0
122	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. Nano Energy, 2018, 51, 102-112.	8.2	37
123	Ionic thermoelectric gating organic transistors. Nature Communications, 2017, 8, 14214.	5.8	99
124	Ionic Thermoelectric Figure of Merit for Charging of Supercapacitors. Advanced Electronic Materials, 2017, 3, 1700013.	2.6	146
125	Effect of (3â€glycidyloxypropyl)trimethoxysilane (GOPS) on the electrical properties of PEDOT:PSS films. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 814-820.	2.4	190
126	In vivo polymerization and manufacturing of wires and supercapacitors in plants. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2807-2812.	3.3	84

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127	Oxygen-induced doping on reduced PEDOT. Journal of Materials Chemistry A, 2017, 5, 4404-4412.	5.2	97
128	Regulating plant physiology with organic electronics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4597-4602.	3.3	51
129	Understanding the Capacitance of PEDOT:PSS. Advanced Functional Materials, 2017, 27, 1700329.	7.8	275
130	Ferroelectric surfaces for cell release. Synthetic Metals, 2017, 228, 99-104.	2.1	5
131	Infrared electrochromic conducting polymer devices. Journal of Materials Chemistry C, 2017, 5, 5824-5830.	2.7	94
132	Surface Acoustic Waves to Drive Plant Transpiration. Scientific Reports, 2017, 7, 45864.	1.6	6
133	Screen printed digital circuits based on vertical organic electrochemical transistors. Flexible and Printed Electronics, 2017, 2, 045008.	1.5	37
134	Cross-Linked Polyelectrolyte for Improved Selectivity and Processability of Iontronic Systems. ACS Applied Materials & Interfaces, 2017, 9, 30247-30252.	4.0	23
135	Redox-active conducting polymers modulate Salmonella biofilm formation by controlling availability of electron acceptors. Npj Biofilms and Microbiomes, 2017, 3, 19.	2.9	31
136	Morphology of a self-doped conducting oligomer for green energy applications. Nanoscale, 2017, 9, 13717-13724.	2.8	19
137	pH Dependence of Î³-Aminobutyric Acid Iontronic Transport. Journal of Physical Chemistry B, 2017, 121, 7284-7289.	1.2	21
138	Chemical potentialâ€“electric double layer coupling in conjugated polymerâ€“polyelectrolyte blends. Science Advances, 2017, 3, eaao3659.	4.7	112
139	Ionic thermoelectric paper. Journal of Materials Chemistry A, 2017, 5, 16883-16888.	5.2	79
140	Ferroelectric polarization induces electronic nonlinearity in ion-doped conducting polymers. Science Advances, 2017, 3, e1700345.	4.7	46
141	Electrochemical circuits from â€˜cut and stickâ€™ PEDOT:PSS-nanocellulose composite. Flexible and Printed Electronics, 2017, 2, 045010.	1.5	18
142	Spectroelectrochemistry and Nature of Charge Carriers in Selfâ€Đoped Conducting Polymer. Advanced Electronic Materials, 2017, 3, 1700096.	2.6	30
143	Polarization of ferroelectric films through electrolyte. Journal of Physics Condensed Matter, 2016, 28, 105901.	0.7	8
144	Single Crystalâ€Like Performance in Solutionâ€Coated Thinâ€Film Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2016, 26, 2379-2386.	7.8	87

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145	Thermoelectric Polymers and their Elastic Aerogels. Advanced Materials, 2016, 28, 4556-4562.	11.1	157
146	Organic Bioelectronics: Bridging the Signaling Gap between Biology and Technology. Chemical Reviews, 2016, 116, 13009-13041.	23.0	422
147	Development and Characterization of Organic Electronic Scaffolds for Bone Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 1505-1512.	3.9	39
148	Photoconductive zinc oxide-composite paper by pilot paper machine manufacturing. Flexible and Printed Electronics, 2016, 1, 044003.	1.5	8
149	Freestanding electrochromic paper. Journal of Materials Chemistry C, 2016, 4, 9680-9686.	2.7	53
150	Patterning and Conductivity Modulation of Conductive Polymers by UV Light Exposure. Advanced Functional Materials, 2016, 26, 6950-6960.	7.8	31
151	An Organic Mixed Ionâ€“Electron Conductor for Power Electronics. Advanced Science, 2016, 3, 1500305.	5.6	188
152	Spatiotemporal Control of Amyloid-Like AÎ² Plaque Formation Using a Multichannel Organic Electronic Device. Macromolecular Materials and Engineering, 2016, 301, 359-363.	1.7	4
153	Naphthalenediimide Polymers with Finely Tuned Inâ€Chain Ïâ€Conjugation: Electronic Structure, Film Microstructure, and Charge Transport Properties. Advanced Materials, 2016, 28, 9169-9174.	11.1	63
154	Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9440-9445.	3.3	107
155	Biorecognition in Organic Field Effect Transistors Biosensors: The Role of the Density of States of the Organic Semiconductor. Analytical Chemistry, 2016, 88, 12330-12338.	3.2	58
156	Thermoelectric Properties of Polymeric Mixed Conductors. Advanced Functional Materials, 2016, 26, 6288-6296.	7.8	96
157	Flexible Lamination-Fabricated Ultra-High Frequency Diodes Based on Self-Supporting Semiconducting Composite Film of Silicon Micro-Particles and Nano-Fibrillated Cellulose. Scientific Reports, 2016, 6, 28921.	1.6	15
158	Thermoelectric Properties of Solutionâ€Processed nâ€Doped Ladderâ€Type Conducting Polymers. Advanced Materials, 2016, 28, 10764-10771.	11.1	245
159	Chemical delivery array with millisecond neurotransmitter release. Science Advances, 2016, 2, e1601340.	4.7	61
160	Highâ€Performance Hole Transport and Quasiâ€Balanced Ambipolar OFETs Based on Dâ€“Aâ€“A Thienoâ€benzoâ€isoindigo Polymers. Advanced Electronic Materials, 2016, 2, 1500313.	2.6	32
161	Browsing the Real World using Organic Electronics, Siâ€Chips, and a Human Touch. Advanced Materials, 2016, 28, 1911-1916.	11.1	17
162	Energy Level Bending in Ultrathin Polymer Layers Obtained through Langmuirâ€“ShÃfer Deposition. Advanced Functional Materials, 2016, 26, 1077-1084.	7.8	38

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163	Ionic thermoelectric supercapacitors. Energy and Environmental Science, 2016, 9, 1450-1457.	15.6	312
164	Matrix Addressing of an Electronic Surface Switch Based on a Conjugated Polyelectrolyte for Cell Sorting. Advanced Functional Materials, 2015, 25, 7056-7063.	7.8	12
165	An Electrochromic Bipolar Membrane Diode. Advanced Materials, 2015, 27, 3909-3914.	11.1	18
166	Half-gate light-emitting electrochemical transistor to achieve centered emissive organic pâ€“n junction. Organic Electronics, 2015, 18, 32-36.	1.4	8
167	Solution processed liquid metal-conducting polymer hybrid thin films as electrochemical pH-threshold indicators. Journal of Materials Chemistry C, 2015, 3, 7604-7611.	2.7	13
168	Therapy using implanted organic bioelectronics. Science Advances, 2015, 1, e1500039.	4.7	161
169	An organic electronic biomimetic neuron enables auto-regulated neuromodulation. Biosensors and Bioelectronics, 2015, 71, 359-364.	5.3	44
170	Controlling Epileptiform Activity with Organic Electronic Ion Pumps. Advanced Materials, 2015, 27, 3138-3144.	11.1	138
171	Ionic Seebeck Effect in Conducting Polymers. Advanced Energy Materials, 2015, 5, 1500044.	10.2	178
172	Modulating molecular aggregation by facile heteroatom substitution of diketopyrrolopyrrole based small molecules for efficient organic solar cells. Journal of Materials Chemistry A, 2015, 3, 24349-24357.	5.2	31
173	Experimental evidence that short-range intermolecular aggregation is sufficient for efficient charge transport in conjugated polymers. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10599-10604.	3.3	175
174	One-Step Synthesis of Precursor Oligomers for Organic Photovoltaics: A Comparative Study between Polymers and Small Molecules. ACS Applied Materials & Interfaces, 2015, 7, 27106-27114.	4.0	25
175	Electronic plants. Science Advances, 2015, 1, e1501136.	4.7	190
176	Polyphosphonium-based ion bipolar junction transistors. Biomicrofluidics, 2014, 8, 064116.	1.2	15
177	Effect of Gate Electrode Workâ€Function on Source Charge Injection in Electrolyteâ€Gated Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2014, 24, 695-700.	7.8	50
178	Electroresponsive Nanoporous Membranes by Coating Anodized Alumina with Poly(3,4â€ethylenedioxythiophene) and Polypyrrole. Macromolecular Materials and Engineering, 2014, 299, 190-197.	1.7	10
179	A Fourâ€Diode Fullâ€Wave Ionic Current Rectifier Based on Bipolar Membranes: Overcoming the Limit of Electrode Capacity. Advanced Materials, 2014, 26, 5143-5147.	11.1	44
180	Semi-metallic polymers. Nature Materials, 2014, 13, 190-194.	13.3	722

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181	Electronic control of platelet adhesion using conducting polymer microarrays. Lab on A Chip, 2014, 14, 3043.	3.1	11
182	Electronic Control over Detachment of a Self-Doped Water-Soluble Conjugated Polyelectrolyte. Langmuir, 2014, 30, 6257-6266.	1.6	19
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