

Magnus Berggren

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339
papers

21,991
citations

78
h-index

138
g-index

366
ext. papers

24,670
ext. citations

10.8
avg, IF

7.04
L-index

#	Paper	IF	Citations
339	Optimization of the thermoelectric figure of merit in the conducting polymer poly(3,4-ethylenedioxythiophene). <i>Nature Materials</i> , 2011 , 10, 429-33	27	1302
338	The Origin of the High Conductivity of Poly(3,4-ethylenedioxythiophene)Poly(styrenesulfonate) (PEDOT:PSS) Plastic Electrodes. <i>Chemistry of Materials</i> , 2006 , 18, 4354-4360	9.6	728
337	Organic electrochemical transistors. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	716
336	Light-emitting diodes with variable colours from polymer blends. <i>Nature</i> , 1994 , 372, 444-446	50.4	682
335	Semi-metallic polymers. <i>Nature Materials</i> , 2014 , 13, 190-4	27	605
334	Organic materials for printed electronics. <i>Nature Materials</i> , 2007 , 6, 3-5	27	544
333	Organic Bioelectronics. <i>Advanced Materials</i> , 2007 , 19, 3201-3213	24	514
332	Active Matrix Displays Based on All-Organic Electrochemical Smart Pixels Printed on Paper. <i>Advanced Materials</i> , 2002 , 14, 1460-1464	24	322
331	Organic Bioelectronics: Bridging the Signaling Gap between Biology and Technology. <i>Chemical Reviews</i> , 2016 , 116, 13009-13041	68.1	317
330	Light amplification in organic thin films using cascade energy transfer. <i>Nature</i> , 1997 , 389, 466-469	50.4	301
329	Printable All-Organic Electrochromic Active-Matrix Displays. <i>Advanced Functional Materials</i> , 2007 , 17, 3074-3082	15.6	293
328	Electronic control of Ca ²⁺ signalling in neuronal cells using an organic electronic ion pump. <i>Nature Materials</i> , 2007 , 6, 673-9	27	289
327	Organic electronics for precise delivery of neurotransmitters to modulate mammalian sensory function. <i>Nature Materials</i> , 2009 , 8, 742-6	27	280
326	Micrometer- and nanometer-sized polymeric light-emitting diodes. <i>Science</i> , 1995 , 267, 1479-81	33.3	275
325	Electroluminescence from Substituted Poly(thiophenes): From Blue to Near-Infrared. <i>Macromolecules</i> , 1995 , 28, 7525-7529	5.5	262
324	Tuning the thermoelectric properties of conducting polymers in an electrochemical transistor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16456-9	16.4	230
323	A water-gate organic field-effect transistor. <i>Advanced Materials</i> , 2010 , 22, 2565-9	24	227

322	Polarized electroluminescence from an oriented substituted polythiophene in a light emitting diode. <i>Advanced Materials</i> , 1995 , 7, 43-45	24	217
321	Electrocardiographic recording with conformable organic electrochemical transistor fabricated on resorbable bioscaffold. <i>Advanced Materials</i> , 2014 , 26, 3874-8	24	214
320	Advances in organic transistor-based biosensors: from organic electrochemical transistors to electrolyte-gated organic field-effect transistors. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1813-18	44	211
319	Low-Voltage Polymer Field-Effect Transistors Gated via a Proton Conductor. <i>Advanced Materials</i> , 2007 , 19, 97-101	24	196
318	An all-organic sensor transistor based on a novel electrochemical transducer concept printed electrochemical sensors on paper. <i>Sensors and Actuators B: Chemical</i> , 2002 , 86, 193-197	8.5	189
317	Ionic thermoelectric supercapacitors. <i>Energy and Environmental Science</i> , 2016 , 9, 1450-1457	35.4	188
316	Thermoelectric Properties of Solution-Processed n-Doped Ladder-Type Conducting Polymers. <i>Advanced Materials</i> , 2016 , 28, 10764-10771	24	186
315	Regioselective polymerization of 3-(4-octylphenyl)thiophene with FeCl ₃ . <i>Macromolecules</i> , 1994 , 27, 6503-6506	35	185
314	Understanding the Capacitance of PEDOT:PSS. <i>Advanced Functional Materials</i> , 2017 , 27, 1700329	15.6	178
313	Thermoelectric properties of conducting polymers: The case of poly(3-hexylthiophene). <i>Physical Review B</i> , 2010 , 82,	3.3	173
312	Electrochemical Logic Circuits. <i>Advanced Materials</i> , 2005 , 17, 353-358	24	160
311	Stimulated emission and lasing in dye-doped organic thin films with Forster transfer. <i>Applied Physics Letters</i> , 1997 , 71, 2230-2232	3.4	159
310	Insulator Polarization Mechanisms in Polyelectrolyte-Gated Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2009 , 19, 3334-3341	15.6	152
309	Complete transection of the median and radial nerves during arthroscopic release of post-traumatic elbow contracture. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 1999 , 15, 784-7	5.4	148
308	Electronic plants. <i>Science Advances</i> , 2015 , 1, e1501136	14.3	143
307	Experimental evidence that short-range intermolecular aggregation is sufficient for efficient charge transport in conjugated polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10599-604	11.5	141
306	Fiber-Embedded Electrolyte-Gated Field-Effect Transistors for e-Textiles. <i>Advanced Materials</i> , 2009 , 21, 573-7	24	141
305	Conductivity-type anisotropy in molecular solids. <i>Journal of Applied Physics</i> , 1997 , 81, 6804-6808	2.5	141

304	An Organic Mixed Ion-Electron Conductor for Power Electronics. <i>Advanced Science</i> , 2016 , 3, 1500305	13.6	140
303	Complementary Logic Circuits Based on High-Performance n-Type Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2018 , 30, 1704916	24	138
302	Ionic Seebeck Effect in Conducting Polymers. <i>Advanced Energy Materials</i> , 2015 , 5, 1500044	21.8	134
301	A Solid-State Organic Electronic Wettability Switch. <i>Advanced Materials</i> , 2004 , 16, 316-320	24	131
300	Polarons, Bipolarons, And Absorption Spectroscopy of PEDOT. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 83-94	4.3	130
299	Interfaces in organic electronics. <i>Nature Reviews Materials</i> , 2019 , 4, 627-650	73.3	129
298	Logic gates based on ion transistors. <i>Nature Communications</i> , 2012 , 3, 871	17.4	128
297	Downscaling of Organic Field-Effect Transistors with a Polyelectrolyte Gate Insulator. <i>Advanced Materials</i> , 2008 , 20, 4708-4713	24	127
296	Organic solid-state lasers with imprinted gratings on plastic substrates. <i>Applied Physics Letters</i> , 1998 , 72, 410-411	3.4	127
295	Detection of glutamate and acetylcholine with organic electrochemical transistors based on conducting polymer/platinum nanoparticle composites. <i>Advanced Materials</i> , 2014 , 26, 5658-64	24	125
294	Improving the contrast of all-printed electrochromic polymer on paper displays. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1799		125
293	Therapy using implanted organic bioelectronics. <i>Science Advances</i> , 2015 , 1, e1500039	14.3	124
292	Thermoelectric Polymers and their Elastic Aerogels. <i>Advanced Materials</i> , 2016 , 28, 4556-62	24	124
291	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. <i>Advanced Materials</i> , 2018 , 30, e1801898	24	123
290	White light from an electroluminescent diode made from poly[3(4-octylphenyl)-2,2'bibithiophene] and an oxadiazole derivative. <i>Journal of Applied Physics</i> , 1994 , 76, 7530-7534	2.5	119
289	DNA detection with a water-gated organic field-effect transistor. <i>Organic Electronics</i> , 2012 , 13, 1-6	3.5	117
288	Electrochemical modulation of epithelia formation using conducting polymers. <i>Biomaterials</i> , 2009 , 30, 6257-64	15.6	114
287	Effect of (3-glycidyloxypropyl)trimethoxysilane (GOPS) on the electrical properties of PEDOT:PSS films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 814-820	2.6	112

286	Controlling the dimensionality of charge transport in organic thin-film transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15069-73	11.5	112
285	Controlling epileptiform activity with organic electronic ion pumps. <i>Advanced Materials</i> , 2015 , 27, 3138-44	4.4	110
284	The effect of pH on the electrochemical over-oxidation in PEDOT:PSS films. <i>Solid State Ionics</i> , 2007 , 177, 3521-3527	3.3	106
283	Ion bipolar junction transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9929-32	11.5	105
282	Organic bioelectronics in nanomedicine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011 , 1810, 276-85	4	101
281	Improving the color switch contrast in PEDOT:PSS-based electrochromic displays. <i>Organic Electronics</i> , 2012 , 13, 469-474	3.5	99
280	Nano-fiber scaffold electrodes based on PEDOT for cell stimulation. <i>Sensors and Actuators B: Chemical</i> , 2009 , 142, 451-456	8.5	99
279	Electronic control of cell detachment using a self-doped conducting polymer. <i>Advanced Materials</i> , 2011 , 23, 4403-8	24	98
278	A polythiophene microcavity laser. <i>Chemical Physics Letters</i> , 1998 , 288, 879-884	2.5	98
277	Thiophene polymers in light emitting diodes: Making multicolour devices. <i>Synthetic Metals</i> , 1995 , 71, 2121-2124	3.6	97
276	Translating Electronic Currents to Precise Acetylcholine-Induced Neuronal Signaling Using an Organic Electrophoretic Delivery Device. <i>Advanced Materials</i> , 2009 , 21, 4442-4446	24	96
275	An Evolvable Organic Electrochemical Transistor for Neuromorphic Applications. <i>Advanced Science</i> , 2019 , 6, 1801339	13.6	92
274	All-printed large-scale integrated circuits based on organic electrochemical transistors. <i>Nature Communications</i> , 2019 , 10, 5053	17.4	91
273	Ionic Thermoelectric Figure of Merit for Charging of Supercapacitors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700013	6.4	89
272	Side Chain Redistribution as a Strategy to Boost Organic Electrochemical Transistor Performance and Stability. <i>Advanced Materials</i> , 2020 , 32, e2002748	24	88
271	Mechanical stimulation of epithelial cells using polypyrrole microactuators. <i>Lab on A Chip</i> , 2011 , 11, 3287-93	9.3	87
270	Polymer field-effect transistor gated via a poly(styrenesulfonic acid) thin film. <i>Applied Physics Letters</i> , 2006 , 89, 143507	3.4	87
269	Polymer diodes with high rectification. <i>Applied Physics Letters</i> , 1999 , 75, 3557-3559	3.4	86

268	An all-polymer-air PEDOT battery. <i>Organic Electronics</i> , 2012 , 13, 632-637	3.5	83
267	Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9440-5	11.5	82
266	How conducting polymer electrodes operate. <i>Science</i> , 2019 , 364, 233-234	33.3	81
265	n-Type organic electrochemical transistors: materials and challenges. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11778-11784	7.1	80
264	Poly(ethylene imine) impurities induce n-doping reaction in organic (semi)conductors. <i>Advanced Materials</i> , 2014 , 26, 6000-6	24	79
263	Control of neural stem cell adhesion and density by an electronic polymer surface switch. <i>Langmuir</i> , 2008 , 24, 14133-8	4	79
262	Conjugated Polymers: Reversible Electronic Solid-Solid Switching of a Conjugated Polymer (Adv. Sci. 2/2020). <i>Advanced Science</i> , 2020 , 7, 2070009	13.6	78
261	Tuning the threshold voltage in electrolyte-gated organic field-effect transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8394-9	11.5	78
260	Single Crystal-Like Performance in Solution-Coated Thin-Film Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 2379-2386	15.6	78
259	Chemical potential-electric double layer coupling in conjugated polymer-polyelectrolyte blends. <i>Science Advances</i> , 2017 , 3, eaao3659	14.3	77
258	Ion Electron-Coupled Functionality in Materials and Devices Based on Conjugated Polymers. <i>Advanced Materials</i> , 2019 , 31, e1805813	24	77
257	Polyelectrolyte-gated organic complementary circuits operating at low power and voltage. <i>Advanced Materials</i> , 2011 , 23, 4684-9	24	76
256	Active control of epithelial cell-density gradients grown along the channel of an organic electrochemical transistor. <i>Advanced Materials</i> , 2009 , 21, 4379-82	24	76
255	1 micron wavelength photo- and electroluminescence from a conjugated polymer. <i>Applied Physics Letters</i> , 2004 , 84, 3570-3572	3.4	76
254	Ionic thermoelectric gating organic transistors. <i>Nature Communications</i> , 2017 , 8, 14214	17.4	75
253	Low-voltage ring oscillators based on polyelectrolyte-gated polymer thin-film transistors. <i>Advanced Materials</i> , 2010 , 22, 72-6	24	75
252	Controlling colour by voltage in polymer light emitting diodes. <i>Synthetic Metals</i> , 1995 , 71, 2185-2186	3.6	75
251	Transition between energy level alignment regimes at a low band gap polymer-electrode interfaces. <i>Applied Physics Letters</i> , 2006 , 89, 213503	3.4	72

250	Transparent, Plastic, Low-Work-Function Poly(3,4-ethylenedioxythiophene) Electrodes. <i>Chemistry of Materials</i> , 2006 , 18, 4246-4252	9.6	70
249	Green Electroluminescence in Poly-(3-cyclohexylthiophene) light-emitting diodes. <i>Advanced Materials</i> , 1994 , 6, 488-490	24	68
248	Ultraviolet electroluminescence from an organic light emitting diode. <i>Advanced Materials</i> , 1995 , 7, 900-903	24	68
247	Oxygen-induced doping on reduced PEDOT. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4404-4412	13	66
246	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. <i>Advanced Functional Materials</i> , 2010 , 20, 4344-4350	15.6	66
245	Boosting the capacity of all-organic paper supercapacitors using wood derivatives. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 145-152	13	66
244	Thermoelectric Properties of Polymeric Mixed Conductors. <i>Advanced Functional Materials</i> , 2016 , 26, 6288-6296	15.6	65
243	Thermal control of near-infrared and visible electroluminescence in alkyl-phenyl substituted polythiophenes. <i>Applied Physics Letters</i> , 1994 , 65, 1489-1491	3.4	65
242	Printed passive matrix addressed electrochromic displays. <i>Organic Electronics</i> , 2013 , 14, 3371-3378	3.5	64
241	Solid-state droplet laser made from an organic blend with a conjugated polymer emitter. <i>Advanced Materials</i> , 1997 , 9, 968-971	24	64
240	Toward complementary ionic circuits: the npn ion bipolar junction transistor. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10141-5	16.4	63
239	Polymeric light-emitting diodes of submicron size structures and developments. <i>Synthetic Metals</i> , 1996 , 76, 141-143	3.6	63
238	In vivo polymerization and manufacturing of wires and supercapacitors in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2807-2812	11.5	60
237	A Multiparameter Pressure-Temperature-Humidity Sensor Based on Mixed Ionic-Electronic Cellulose Aerogels. <i>Advanced Science</i> , 2019 , 6, 1802128	13.6	59
236	Fast-switching all-printed organic electrochemical transistors. <i>Organic Electronics</i> , 2013 , 14, 1276-1280	3.5	59
235	Control of neural stem cell survival by electroactive polymer substrates. <i>PLoS ONE</i> , 2011 , 6, e18624	3.7	58
234	Infrared electrochromic conducting polymer devices. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5824-5830	11.1	57
233	Ground-state electron transfer in all-polymer donor-acceptor heterojunctions. <i>Nature Materials</i> , 2020 , 19, 738-744	27	56

232	All-printed diode operating at 1.6 GHz. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11943-8	11.5	56
231	Flexible active matrix addressed displays manufactured by printing and coating techniques. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 265-271	2.6	56
230	On the Current Saturation Observed in Electrochemical Polymer Transistors. <i>Journal of the Electrochemical Society</i> , 2006 , 153, H39	3.9	56
229	Correlating the Seebeck coefficient of thermoelectric polymer thin films to their charge transport mechanism. <i>Organic Electronics</i> , 2018 , 52, 335-341	3.5	56
228	Electric current rectification by an all-organic electrochemical device. <i>Applied Physics Letters</i> , 2002 , 81, 2011-2013	3.4	54
227	APPLIED PHYSICS: Organic Solid-State Lasers: Past and Future. <i>Science</i> , 1997 , 277, 1787-1788	33.3	52
226	Doping front propagation in light-emitting electrochemical cells. <i>Physical Review B</i> , 2006 , 74,	3.3	52
225	High carrier mobility in low band gap polymer-based field-effect transistors. <i>Applied Physics Letters</i> , 2005 , 87, 252105	3.4	52
224	Optoelectronic control of single cells using organic photocapacitors. <i>Science Advances</i> , 2019 , 5, eaav5265	4.3	50
223	On the mode of operation in electrolyte-gated thin film transistors based on different substituted polythiophenes. <i>Organic Electronics</i> , 2014 , 15, 2420-2427	3.5	50
222	Resonators and materials for organic lasers based on energy transfer. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998 , 4, 67-74	3.8	50
221	Naphthalenediimide Polymers with Finely Tuned In-Chain π Conjugation: Electronic Structure, Film Microstructure, and Charge Transport Properties. <i>Advanced Materials</i> , 2016 , 28, 9169-9174	24	49
220	Ferroelectric polarization induces electric double layer bistability in electrolyte-gated field-effect transistors. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 438-42	9.5	49
219	Effects of the Ionic Currents in Electrolyte-gated Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2008 , 18, 3529-3536	15.6	49
218	A high-conductivity n-type polymeric ink for printed electronics. <i>Nature Communications</i> , 2021 , 12, 2354	17.4	49
217	An all-printed wireless humidity sensor label. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 556-561	8.5	48
216	Ionic thermoelectric paper. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16883-16888	13	48
215	Controlling the dimensionality of charge transport in an organic electrochemical transistor by capacitive coupling. <i>Advanced Materials</i> , 2011 , 23, 4764-9	24	48

214	Electrochemical control of growth factor presentation to steer neural stem cell differentiation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12529-33	16.4	48
213	Synthesis of poly(alkylthiophenes) for light-emitting diodes. <i>Synthetic Metals</i> , 1995 , 71, 2183-2184	3.6	48
212	Chemical delivery array with millisecond neurotransmitter release. <i>Science Advances</i> , 2016 , 2, e1601340	14.3	47
211	PEDOT:PSS-based Multilayer Bacterial-Composite Films for Bioelectronics. <i>Scientific Reports</i> , 2018 , 8, 15293	4.9	46
210	Biorecognition in Organic Field Effect Transistors Biosensors: The Role of the Density of States of the Organic Semiconductor. <i>Analytical Chemistry</i> , 2016 , 88, 12330-12338	7.8	45
209	Phospholipid film in electrolyte-gated organic field-effect transistors. <i>Organic Electronics</i> , 2012 , 13, 638-644	5.4	45
208	Towards all-plastic flexible light emitting diodes. <i>Chemical Physics Letters</i> , 2006 , 433, 110-114	2.5	45
207	Electrocatalytic Production of Hydrogen Peroxide with Poly(3,4-ethylenedioxythiophene) Electrodes. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800110	5.9	45
206	Effect of Gate Electrode Work-Function on Source Charge Injection in Electrolyte-Gated Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2014 , 24, 695-700	15.6	44
205	Electrochemical control of surface wettability of poly(3-alkylthiophenes). <i>Surface Science</i> , 2006 , 600, L148-L152	1.8	44
204	Low band gap donor-acceptor-donor polymers for infra-red electroluminescence and transistors. <i>Synthetic Metals</i> , 2004 , 146, 233-236	3.6	44
203	Switchable Charge Traps in Polymer Diodes. <i>Advanced Materials</i> , 2005 , 17, 1798-1803	24	44
202	EGOFET Peptide Aptasensor for Label-Free Detection of Inflammatory Cytokines in Complex Fluids. <i>Advanced Biology</i> , 2018 , 2, 1700072	3.5	44
201	Ion diode logics for pH control. <i>Lab on A Chip</i> , 2012 , 12, 2507-13	7.2	43
200	Electrolyte-gated transistors for enhanced performance bioelectronics.. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		42
199	Patterning polythiophene films using electrochemical over-oxidation. <i>Smart Materials and Structures</i> , 2005 , 14, N21-N25	3.4	41
198	Controlling inter-chain and intra-chain excitations of a poly(thiophene) derivative in thin films. <i>Chemical Physics Letters</i> , 1999 , 304, 84-90	2.5	41
197	Tuning the Energy Levels of Photochromic Diarylethene Compounds for Opto-Electronic Switch Devices. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18396-18405	3.8	40

196	Regulating plant physiology with organic electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4597-4602	11.5	39
195	Copolythiophene-based water-gated organic field-effect transistors for biosensing. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2090-2097	7.3	38
194	Electronic modulation of an electrochemically induced wettability gradient to control water movement on a polyaniline surface. <i>Thin Solid Films</i> , 2006 , 515, 2003-2008	2.2	38
193	Improved photoluminescence efficiency of films from conjugated polymers. <i>Synthetic Metals</i> , 1997 , 85, 1383-1384	3.6	37
192	An organic electronic biomimetic neuron enables auto-regulated neuromodulation. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 359-364	11.8	36
191	Ferroelectric polarization induces electronic nonlinearity in ion-doped conducting polymers. <i>Science Advances</i> , 2017 , 3, e1700345	14.3	36
190	Spatial control of p-n junction in an organic light-emitting electrochemical transistor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 901-4	16.4	35
189	Dynamic control of surface energy and topography of microstructured conducting polymer films. <i>Langmuir</i> , 2008 , 24, 5942-8	4	34
188	Energy Level Bending in Ultrathin Polymer Layers Obtained through Langmuir-Blodgett Deposition. <i>Advanced Functional Materials</i> , 2016 , 26, 1077-1084	15.6	33
187	A four-diode full-wave ionic current rectifier based on bipolar membranes: overcoming the limit of electrode capacity. <i>Advanced Materials</i> , 2014 , 26, 5143-7	24	33
186	Selective remanent ambipolar charge transport in polymeric field-effect transistors for high-performance logic circuits fabricated in ambient. <i>Advanced Materials</i> , 2014 , 26, 7438-43	24	32
185	On the switching mechanism in Rose Bengal-based memory devices. <i>Organic Electronics</i> , 2007 , 8, 559-565	5.5	32
184	Freestanding electrochromic paper. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9680-9686	7.1	32
183	Self organizing polymer films: a route to novel electronic devices based on conjugated polymers. <i>Supramolecular Science</i> , 1997 , 4, 27-34		31
182	The intrinsic volumetric capacitance of conducting polymers: pseudo-capacitors or double-layer supercapacitors?. <i>RSC Advances</i> , 2019 , 9, 42498-42508	3.7	31
181	A sensor circuit using reference-based conductance switching in organic electrochemical transistors. <i>Applied Physics Letters</i> , 2008 , 93, 203301	3.4	30
180	High-Performance Hole Transport and Quasi-Balanced Ambipolar OFETs Based on Diarylethene Thieno-benzo-isoindigo Polymers. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500313	6.4	29
179	Optical emission from confined poly(thiophene) chains. <i>Optical Materials</i> , 1998 , 9, 104-108	3.3	29

178	Electronically controlled pH gradients and proton oscillations. <i>Organic Electronics</i> , 2008 , 9, 303-309	3.5	29
177	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. <i>Nano Energy</i> , 2018 , 51, 102-112	17.1	28
176	Nanofibrillated Cellulose-Based Electrolyte and Electrode for Paper-Based Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700121	5.9	27
175	Simplified Large-Area Manufacturing of Organic Electrochemical Transistors Combining Printing and a Self-Aligning Laser Ablation Step. <i>Advanced Functional Materials</i> , 2012 , 22, 2939-2948	15.6	27
174	A Static Model for Electrolyte-Gated Organic Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 3574-3582	2.9	27
173	Evaluation of active materials designed for use in printable electrochromic polymer displays. <i>Thin Solid Films</i> , 2006 , 515, 2485-2492	2.2	27
172	Reversible Electronic Solid-Gel Switching of a Conjugated Polymer. <i>Advanced Science</i> , 2020 , 7, 1901144	13.6	27
171	Development and Characterization of Organic Electronic Scaffolds for Bone Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1505-12	10.1	27
170	Real-Time Monitoring of Glucose Export from Isolated Chloroplasts Using an Organic Electrochemical Transistor. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900262	6.8	27
169	Polymer light-emitting diodes placed in microcavities. <i>Synthetic Metals</i> , 1996 , 76, 121-123	3.6	26
168	Label free urea biosensor based on organic electrochemical transistors. <i>Flexible and Printed Electronics</i> , 2018 , 3, 024001	3.1	25
167	Organic electrochemical transistors for signal amplification in fast scan cyclic voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 651-656	8.5	25
166	Electrochemical wettability switches gate aqueous liquids in microfluidic systems. <i>Lab on A Chip</i> , 2006 , 6, 1277-8	7.2	25
165	Spectroelectrochemistry and Nature of Charge Carriers in Self-Doped Conducting Polymer. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700096	6.4	25
164	Screen printed digital circuits based on vertical organic electrochemical transistors. <i>Flexible and Printed Electronics</i> , 2017 , 2, 045008	3.1	24
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