Nathaniel D Robinson

List of Publications by Year
in descending order

45 papers	3,506 citations	218677 26 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	4606 citing authors

#	Article	IF	Citations
1	Organic materials for printed electronics. Nature Materials, 2007, 6, 3-5.	27.5	612
2	Electronic control of Ca2+ signalling in neuronal cells using an organic electronic ion pump. Nature Materials, 2007, 6, 673-679.	27.5	352
3	The dynamic organic pâ€“n junction. Nature Materials, 2009, 8, 672-676.	27.5	298
4	Graphene and Mobile Ions: The Key to All-Plastic, Solution-Processed Light-Emitting Devices. ACS Nano, 2010, 4, 637-642.	14.6	266
5	Low-Voltage Polymer Field-Effect Transistors Gated via a Proton Conductor. Advanced Materials, 2007, 19, 97-101.	21.0	221
6	Electrochemical Logic Circuits. Advanced Materials, 2005, 17, 353-358.	21.0	183
7	A Solid-State Organic Electronic Wettability Switch. Advanced Materials, 2004, 16, 316-320.	21.0	141
8	The effect of pH on the electrochemical over-oxidation in PEDOT:PSS films. Solid State Ionics, 2007, 177, 3521-3527.	2.7	127
9	Identifying and Alleviating Electrochemical Side-Reactions in Light-Emitting Electrochemical Cells. Journal of the American Chemical Society, 2008, 130, 4562-4568.	13.7	113
10	Flexible and Metal-Free Light-Emitting Electrochemical Cells Based on Graphene and PEDOT-PSS as the Electrode Materials. ACS Nano, 2011, 5, 574-580.	14.6	110
11	Polymer field-effect transistor gated via a poly(styrenesulfonic acid) thin film. Applied Physics Letters, 2006, 89, 143507.	3.3	97
12	Inkjet printed electrochemical organic electronics. Synthetic Metals, 2008, 158, 556-560.	3.9	96
13	Polymer Light-Emitting Electrochemical Cells: Doping Concentration, Emission-Zone Position, and Turn-On Time. Advanced Functional Materials, 2007, 17, 1807-1813.	14.9	78
14	On the Limited Operational Lifetime of Lightâ€Emitting Electrochemical Cells. Advanced Materials, 2008, 20, 1744-1749.	21.0	68
15	On the Current Saturation Observed in Electrochemical Polymer Transistors. Journal of the Electrochemical Society, 2006, 153, H39.	2.9	61
16	Doping front propagation in light-emitting electrochemical cells. Physical Review B, 2006, 74, .	3.2	56
17	The influence of electrodes on the performance of light-emitting electrochemical cells. Electrochimica Acta, 2007, 52, 6456-6462.	5.2	53
18	Electrolysisâ€reducing electrodes for electrokinetic devices. Electrophoresis, 2011, 32, 784-790.	2.4	49

#	Article	IF	Citations
19	Switchable Charge Traps in Polymer Diodes. Advanced Materials, 2005, 17, 1798-1803.	21.0	48
20	Electrochemical control of surface wettability of poly(3-alkylthiophenes). Surface Science, 2006, 600, L148-L152.	1.9	47
21	Patterning polythiophene films using electrochemical over-oxidation. Smart Materials and Structures, 2005, 14, N21-N25.	3.5	44
22	Electronic modulation of an electrochemically induced wettability gradient to control water movement on a polyaniline surface. Thin Solid Films, 2006, 515, 2003-2008.	1.8	39
23	Observations of Singularity Formation during the Capillary Collapse and Bubble Pinch-off of a Soap Film Bridge. Journal of Colloid and Interface Science, 2001, 241, 448-458.	9.4	37
24	Electronically controlled pH gradients and proton oscillations. Organic Electronics, 2008, 9, 303-309.	2.6	31
25	Evaluation of active materials designed for use in printable electrochromic polymer displays. Thin Solid Films, 2006, 515, 2485-2492.	1.8	30
26	Electrochemical doping during light emission in polymer light-emitting electrochemical cells. Physical Review B, 2008, 78, .	3.2	28
27	Selfâ€Heating in Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2020, 30, 1908649.	14.9	26
28	Electrochemical wettability switches gate aqueous liquids in microfluidic systems. Lab on A Chip, 2006, 6, 1277.	6.0	25
29	A large-area, all-plastic, flexible electroosmotic pump. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	21
30	Diodes based on blends of molecular switches and conjugated polymers. Synthetic Metals, 2005, 150, 217-221.	3.9	19
31	A clip-on electroosmotic pump for oscillating flow in microfluidic cell culture devices. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	17
32	Electrochemical quartz crystal microbalance study of polyelectrolyte film growth under anodic conditions. Applied Surface Science, 2013, 280, 783-790.	6.1	15
33	Patterning Highly Conducting Conjugated Polymer Electrodes for Soft and Flexible Microelectrochemical Devices. ACS Applied Materials & Interfaces, 2018, 10, 14978-14985.	8.0	15
34	Graphene electrodes for organic metal-free light-emitting devices. Physica Scripta, 2012, T146, 014023.	2.5	14
35	Conducting Polymer Electrodes for Gel Electrophoresis. PLoS ONE, 2014, 9, e89416.	2.5	12
36	Macroporous microcarriers for introducing cells into a microfluidic chip. Lab on A Chip, 2014, 14, 3502-3504.	6.0	11

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37	Visualizing the Electric Field in Electrolytes Using Electrochromism from a Conjugated Polymer. Electrochemical and Solid-State Letters, 2005, 8, H12.	2.2	10
38	Printable organic electrochemical circuit to record timeâ€“temperature history. Electrochimica Acta, 2010, 55, 7061-7066.	5.2	8
39	Tailoring the conductivity of PEO-based electrolytes for temperature-sensitive printed electronics. Journal of Materials Science, 2013, 48, 5756-5767.	3.7	8
40	Liquid bridge stabilization: theory guides a codimension-two experiment. Computer Methods in Applied Mechanics and Engineering, 1999, 170, 209-221.	6.6	5
41	Electroosmotic Pumps with Frits Synthesized from Potassium Silicate. PLoS ONE, 2015, 10, e0144065.	2.5	5
42	On the anodic deposition of poly-L-lysine on indium tin oxide. Electrochimica Acta, 2016, 196, 629-633.	5.2	5
43	Determination of Fucose Concentration in a Lectin-Based Displacement Microfluidic Assay. Applied Biochemistry and Biotechnology, 2019, 188, 868-877.	2.9	2
44	All-organic electrochemical device with bistable and dynamic functionality. , 2003, , .		1
45	Polymer-based electrochemical devices for logic functions and paper displays. , 2003, , .		0