Elliot J Fuller

List of Publications by Year
in descending order

20 papers	3,029 citations	623734 14 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	3420 citing authors

#	Article	IF	Citations
1	A non-volatile organic electrochemical device as a low-voltage artificial synapse for neuromorphic computing. Nature Materials, 2017, 16, 414-418.	27.5	1,234
2	Parallel programming of an ionic floating-gate memory array for scalable neuromorphic computing. Science, 2019, 364, 570-574.	12.6	484
3	Liâ€Ion Synaptic Transistor for Low Power Analog Computing. Advanced Materials, 2017, 29, 1604310.	21.0	425
4	Allâ€Solidâ€State Synaptic Transistor with Ultralow Conductance for Neuromorphic Computing. Advanced Functional Materials, 2018, 28, 1804170.	14.9	335
5	Nanoscale Solid State Batteries Enabled by Thermal Atomic Layer Deposition of a Lithium Polyphosphazene Solid State Electrolyte. Chemistry of Materials, 2017, 29, 3740-3753.	6.7	122
6	Filamentâ€Free Bulk Resistive Memory Enables Deterministic Analogue Switching. Advanced Materials, 2020, 32, e2003984.	21.0	83
7	Low-Voltage, CMOS-Free Synaptic Memory Based on Li_XTiO₂ Redox Transistors. ACS Applied Materials & Interfaces, 2019, 11, 38982-38992.	8.0	78
8	Optimized pulsed write schemes improve linearity and write speed for low-power organic neuromorphic devices. Journal Physics D: Applied Physics, 2018, 51, 224002.	2.8	53
9	Achieving ideal accuracies in analog neuromorphic computing using periodic carry. , 2017, , .		39
10	Kineticsâ€Controlled Degradation Reactions at Crystalline LiPON/Li_xCoO₂ and Crystalline LiPON/Liâ€Metal Interfaces. ChemSusChem, 2018, 11, 1956-1969.	6.8	32
11	Efficient Electronic Tunneling Governs Transport in Conducting Polymer-Insulator Blends. Journal of the American Chemical Society, 2022, 144, 10368-10376.	13.7	26
12	In situ Parallel Training of Analog Neural Network Using Electrochemical Random-Access Memory. Frontiers in Neuroscience, 2021, 15, 636127.	2.8	24
13	Spatially Resolved Potential and Li-Ion Distributions Reveal Performance-Limiting Regions in Solid-State Batteries. ACS Energy Letters, 2021, 6, 3944-3951.	17.4	18
14	Quantitative Kelvin probe force microscopy of current-carrying devices. Applied Physics Letters, 2013, 102, .	3.3	17
15	Tin Oxynitride Anodes by Atomic Layer Deposition for Solid-State Batteries. Chemistry of Materials, 2018, 30, 2526-2534.	6.7	16
16	Distinguishing carbon nanotube defect chemistry using scanning gate spectroscopy. Physical Review B, 2012, 85, .	3.2	14
17	Mean free paths in single-walled carbon nanotubes measured by Kelvin probe force microscopy. Physical Review B, 2014, 89, .	3.2	13
18	Co-Design of Free-Space Metasurface Optical Neuromorphic Classifiers for High Performance. ACS Photonics, 2021, 8, 2103-2111.	6.6	7

#	Article	IF	Citations
19	One-Dimensional Poole-Frenkel Conduction in the Single Defect Limit. Nano Letters, 2015, 15, 5248-5253.	9.1	5
20	High accuracy single-layer free-space diffractive neuromorphic classifiers for spatially incoherent light. Optics Express, 2022, 30, 12510.	3.4	4