Jessamyn A Fairfield

List of Publications by Year
in descending order

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22 papers	701 citations	758635 12 h-index	752256 20 g-index
23 all docs	23 docs citations	23 times ranked	1308 citing authors

#	Article	IF	Citations
1	Synaptic plasticity functions in an organic electrochemical transistor. Applied Physics Letters, 2015, 107, .	1.5	144
2	Orientation selectivity in a multi-gated organic electrochemical transistor. Scientific Reports, 2016, 6, 27007.	1.6	79
3	Manipulating Connectivity and Electrical Conductivity in Metallic Nanowire Networks. Nano Letters, 2012, 12, 5966-5971.	4.5	76
4	A Single Nanoscale Junction with Programmable Multilevel Memory. ACS Nano, 2014, 8, 11724-11729.	7.3	53
5	Quantitative Study of the Photothermal Properties of Metallic Nanowire Networks. ACS Nano, 2015, 9, 5551-5558.	7.3	53
6	Nanostructured Materials for Neural Electrical Interfaces. Advanced Functional Materials, 2018, 28, 1701145.	7.8	50
7	Associative Enhancement of Time Correlated Response to Heterogeneous Stimuli in a Neuromorphic Nanowire Device. Advanced Electronic Materials, 2016, 2, 1500458.	2.6	37
8	Programmability of nanowire networks. Nanoscale, 2014, 6, 9632-9639.	2.8	33
9	Game-Based Learning to Engage Students With Physics and Astronomy Using a Board Game. International Journal of Game-Based Learning, 2019, 9, 42-57.	0.9	31
10	Controlling Nanogap Quantum Dot Photoconductivity through Optoelectronic Trap Manipulation. Nano Letters, 2009, 9, 4191-4197.	4.5	29
11	Effective Electrode Length Enhances Electrical Activation of Nanowire Networks: Experiment and Simulation. ACS Nano, 2014, 8, 9542-9549.	7.3	29
12	Reduced Charge Diffusion in Thick, Fully Depleted CCDs With Enhanced Red Sensitivity. IEEE Transactions on Nuclear Science, 2006, 53, 3877-3881.	1.2	17
13	High-voltage-compatable, fully depleted CCDs. , 2006, , .		14
14	Quantum point contacts and resistive switching in Ni/NiO nanowire junctions. Applied Physics Letters, 2016, 109, .	1.5	12
15	Co-percolation to tune conductive behaviour in dynamical metallic nanowire networks. Nanoscale, 2016, 8, 18516-18523.	2.8	11
16	Characterization of memory and measurement history in photoconductivity of nanocrystal arrays. Applied Physics Letters, 2010, 97, .	1.5	7
17	Improved Spatial Resolution in Thick, Fully-Depleted CCDs with Enhanced Red Sensitivity. , 0, , .		5
18	Fluorescence Dynamics of Semiconductor Nanorod Clusters Studied by Correlated Atomic Force, Transmission Electron, and Fluorescence Microscopy. Journal of Physical Chemistry C, 2008, 112, 19945-19956.	1.5	5

#	Article	IF	Citations
19	Designing physics board games: a practical guide for educators. Physics Education, 2022, 57, 035006.	0.3	5
20	Radiation-tolerant, red-sensitive CCDs for dark energy investigations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 526-527.	0.7	4
21	Alternative Conceptions of Astronomy: How Irish Secondary Students Understand Gravity, Seasons, and the Big Bang. Eurasia Journal of Mathematics, Science and Technology Education, 2021, 17, em1950.	0.7	3
22	Smarter machines. Physics World, 2017, 30, 33-36.	0.0	2