Dmitry A Lapkin

List of Publications by Year in Descending Order

17 papers	292 citations	9 h-index	17 g-index
21 ext. papers	370 ext. citations	5.6 avg, IF	3.2 L-index

#	Paper	IF	Citations
17	Spatially resolved fluorescence of caesium lead halide perovskite supercrystals reveals quasi-atomic behavior of nanocrystals.. *Nature Communications*, **2022**, 13, 892	17.4	2
16	High spatial coherence and short pulse duration revealed by the Hanbury Brown and Twiss interferometry at the European XFEL. *Structural Dynamics*, **2021**, 8, 044305	3.2	1
15	Exploring the 3D structure and defects of a self-assembled gold mesocrystal by coherent X-ray diffraction imaging. *Nanoscale*, **2021**, 13, 10425-10435	7.7	1
14	Associative STDP-like learning of neuromorphic circuits based on polyaniline memristive microdevices. *Journal Physics D: Applied Physics*, **2020**, 53, 414001	3	17
13	Structure-Transport Correlation Reveals Anisotropic Charge Transport in Coupled PbS Nanocrystal Superlattices. *Advanced Materials*, **2020**, 32, e2002254	24	12
12	Optical Monitoring of the Resistive States of a Polyaniline-Based Memristive Device. *Advanced Electronic Materials*, **2020**, 6, 2000511	6.4	8
11	Hybrid polyaniline/polyamide-6 fibers and nonwoven materials for assembling organic memristive elements. *Synthetic Metals*, **2019**, 254, 63-67	3.6	7
10	Parylene Based Memristive Devices with Multilevel Resistive Switching for Neuromorphic Applications. *Scientific Reports*, **2019**, 9, 10800	4.9	59
9	Revealing Grain Boundaries and Defect Formation in Nanocrystal Superlattices by Nanodiffraction. *Small*, **2019**, 15, e1904954	11	17
8	Poly-para-xylylene-Based Memristors on Flexible Substrates. *Technical Physics Letters*, **2019**, 45, 1103-1106	0.7	5
7	Polyaniline-based memristive microdevice with high switching rate and endurance. *Applied Physics Letters*, **2018**, 112, 043302	3.4	40
6	Spike-timing-dependent plasticity of polyaniline-based memristive element. *Microelectronic Engineering*, **2018**, 185-186, 43-47	2.5	26
5	Planar and 3D fibrous polyaniline-based materials for memristive elements. *Soft Matter*, **2017**, 13, 7300-7306	3.3	9
4	An Organic Memristive Element Based on Single Polyaniline/Polyamide-6 Fiber. *Technical Physics Letters*, **2017**, 43, 1102-1104	0.7	1
3	Neuromorphic elements and systems as the basis for the physical implementation of artificial intelligence technologies. *Crystallography Reports*, **2016**, 61, 992-1001	0.6	11
2	First steps towards the realization of a double layer perceptron based on organic memristive devices. *AIP Advances*, **2016**, 6, 111301	1.5	65
1	Organic Memristive Device Based on Polyaniline Film Prepared by Spin Coating. *BioNanoScience*, **2015**, 5, 181-184	3.4	8