

Avilov Vadim

List of Publications by Year in descending order

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22
papers

255
citations

840776

11
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940533

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22
all docs

22
docs citations

22
times ranked

78
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of a memristor matrix based on titanium oxide and investigation by probe-nanotechnology methods. <i>Semiconductors</i> , 2014, 48, 1757-1762.	0.5	26
2	Synthesis and Memristor Effect of a Forming-Free ZnO Nanocrystalline Films. <i>Nanomaterials</i> , 2020, 10, 1007.	4.1	26
3	Studying the modes of nanodimensional surface profiling of Gallium Arsenide epitaxial structures by local anodic oxidation. <i>Nanotechnologies in Russia</i> , 2015, 10, 214-219.	0.7	25
4	A study of the formation modes of nanosized oxide structures of gallium arsenide by local anodic oxidation. <i>Semiconductors</i> , 2012, 46, 1616-1621.	0.5	22
5	Study of Nanoscale Profiling Modes of GaAs Epitaxial Structures by Focused Ion Beams. <i>Nanotechnologies in Russia</i> , 2018, 13, 26-33.	0.7	21
6	Simulation of the formation of nanosize oxide structures by local anode oxidation of the metal surface. <i>Technical Physics</i> , 2015, 60, 717-723.	0.7	17
7	Scanning probe nanolithography of resistive memory element based on titanium oxide memristor structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 256, 012001.	0.6	17
8	Study of the phase composition of nanostructures produced by the local anodic oxidation of titanium films. <i>Semiconductors</i> , 2016, 50, 601-606.	0.5	14
9	Investigation into the Memristor Effect in Nanocrystalline ZnO Films. <i>Semiconductors</i> , 2019, 53, 72-77.	0.5	13
10	Droplet epitaxy of GaAs nanostructures on the As-stabilized GaAs(001) surface. <i>Journal of Physics: Conference Series</i> , 2017, 917, 032037.	0.4	12
11	Nanoscale-Resistive Switching in Forming-Free Zinc Oxide Memristive Structures. <i>Nanomaterials</i> , 2022, 12, 455.	4.1	11
12	Formation of ZnO memristor structures by scratching probe nanolithography. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 443, 012036.	0.6	10
13	The Effect of Growth Parameters on Electrophysical and Memristive Properties of Vanadium Oxide Thin Films. <i>Molecules</i> , 2021, 26, 118.	3.8	8
14	Investigation of memristor effect on the titanium nanowires fabricated by focused ion beam. <i>Proceedings of SPIE</i> , 2016, , .	0.8	7
15	Resistive Switching of GaAs Oxide Nanostructures. <i>Materials</i> , 2020, 13, 3451.	2.9	7
16	Formation of memristor nanostructures for RRAM memory by local anodic oxidation. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 443, 012004.	0.6	6
17	Modelling of local anodic oxidation of titanium oxide nanostructures formation process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 443, 012013.	0.6	4
18	Investigation of the electrode material influence on the titanium oxide nanosize structures memristor effect. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 022019.	0.4	3

#	ARTICLE	IF	CITATIONS
19	Influence of the FIB parameters on the etching of planar nanosized multigraphene/SiC field emitters. IOP Conference Series: Materials Science and Engineering, 2018, 443, 012012.	0.6	3
20	Nanoscale profiling and memristor effect of ZnO thin films for RRAM and neuromorphic devices application. , 2019, , .		2
21	Local Anodic Oxidation Proceses Influence and Temperature Stability on the Memristive Propherties of Titanium Oxide Nanostructures for ReRAM Development. , 2020, , .		1
22	Investigation of resistive switching effect in nanocrystalline TiO2 thin film for neuromorphic system manufacturing. Journal of Physics: Conference Series, 2019, 1400, 055032.	0.4	0