

Pavel Borisov

List of Publications by Year in descending order

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65
papers

3,363
citations

201385

27
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138251

58
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68
all docs

68
docs citations

68
times ranked

4482
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition from noise-induced to self-sustained current spiking generated by a NbOx thin film threshold switch. Applied Physics Letters, 2021, 118, .	1.5	6
2	Deterministic mechanisms of spiking in diffusive memristors. Chaos, Solitons and Fractals, 2021, 149, 110997.	2.5	10
3	Search for the Magnetic Monopole at a Magnetoelectric Surface. Physical Review X, 2019, 9, .	2.8	15
4	Structural and electrical characterization of polycrystalline NbO2 thin film vertical devices grown on TiN-coated SiO2/Si substrates. Journal of Applied Physics, 2018, 124, .	1.1	19
5	Comparative study of the structural and optical properties of epitaxial CuFeO2 and CuFe1-xGaxO2 delafossite thin films grown by pulsed laser deposition methods. Thin Solid Films, 2017, 626, 110-116.	0.8	18
6	Weak ferromagnetism and short range polar order in NaMnF3 thin films. Applied Physics Letters, 2017, 110, 092901.	1.5	5
7	Terahertz time-domain spectroscopy of magnons in antiferromagnetic MnF2 (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
8	Room temperature ferroelectricity in fluoroperovskite thin films. Scientific Reports, 2017, 7, 7182.	1.6	19
9	STEM EBIC Mapping of the Metal-Insulator Transition in Thin-film NbO ₂ . Microscopy and Microanalysis, 2017, 23, 1428-1429.	0.2	1
10	The role of defects in the electrical properties of NbO2 thin film vertical devices. AIP Advances, 2016, 6, 125006.	0.6	4
11	STEM Video of Electronically-Driven Metal-Insulator Transitions in Nanoscale NbO ₂ Devices. Microscopy and Microanalysis, 2016, 22, 1254-1255.	0.2	2
12	Magnetolectric properties of 500-nm C _r O ₃ films. Physical Review B, 2016, 93, .	1.1	46
13	Antiferromagnetic Spin Seebeck Effect. Physical Review Letters, 2016, 116, 097204.	2.9	248
14	Multiferroic BaCoF ₄ in Thin Film Form: Ferroelectricity, Magnetic Ordering, and Strain. ACS Applied Materials & Interfaces, 2016, 8, 2694-2703.	4.0	16
15	Optical detection of carbon dioxide adsorption on epitaxial CuFe1-xGaxO2 Delafossite film grown by pulse laser deposition. Surface Science, 2016, 648, 23-28.	0.8	8
16	Structural properties of Bi ₂ Mn ₃ Se ₃ thin films grown via molecular beam epitaxy. Journal of Applied Physics, 2015, 118, .	1.1	6
17	Structural and magnetic properties of epitaxial delafossite CuFeO2 thin films grown by pulsed laser deposition. Journal of Applied Physics, 2015, 117, .	1.1	37
18	Tilt engineering of spontaneous polarization and magnetization above 300 K in a bulk layered perovskite. Science, 2015, 347, 420-424.	6.0	181

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19	Phase Diagram of a Three-Dimensional Antiferromagnet with Random Magnetic Anisotropy. Physical Review Letters, 2015, 114, 097201.	2.9	6
20	Preparation, characterization, and electrical properties of epitaxial NbO ₂ thin film lateral devices. Journal Physics D: Applied Physics, 2015, 48, 335308.	1.3	38
21	Coherent control of injection currents in high-quality films of Bi ₂ Se ₃ . Applied Physics Letters, 2015, 106, .	1.5	26
22	Designing switchable polarization and magnetization at room temperature in an oxide. Nature, 2015, 525, 363-366.	13.7	122
23	Electrically induced insulator to metal transition in epitaxial SmNiO ₃ thin films. Applied Physics Letters, 2014, 105, .	1.5	35
24	Engineered spatial inversion symmetry breaking in an oxide heterostructure built from isosymmetric room-temperature magnetically ordered components. Chemical Science, 2014, 5, 1599-1610.	3.7	30
25	Comment on "The Origin of Magnetism in Mn-Doped SrTiO ₃ ". Advanced Functional Materials, 2013, 23, 2229-2230.	7.8	11
26	Electric in-plane polarization in multiferroic CoFe ₂ O ₄ /BaTiO ₃ nanocomposite tuned by magnetic fields. Nature Communications, 2013, 4, 2051.	5.8	126
27	Growth of M-type hexaferrite thin films with conical magnetic structure. Applied Physics Letters, 2013, 102, 032902.	1.5	16
28	Magnetic Anomaly and Dielectric Tunability of (Sr,Mn)TiO ₃ Thin Films. Ferroelectrics, 2012, 426, 274-281.	0.3	3
29	Multiferroic and magnetoelectric materials " Developments and perspectives. EPJ Web of Conferences, 2012, 29, 00046.	0.1	14
30	Artificial Construction of the Layered Ruddlesden-Popper Manganite La ₂ Sr ₂ Mn ₃ O ₁₀ by Reflection High Energy Electron Diffraction Monitored Pulsed Laser Deposition. Journal of the American Chemical Society, 2012, 134, 7700-7714.	6.6	29
31	Converse magnetoelectric effect in CoFe ₂ O ₄ /BaTiO ₃ composites with a core-shell structure. Smart Materials and Structures, 2011, 20, 075006.	1.8	74
32	Magnetic and polar phases and dynamical clustering in multiferroic layered solid solutions CuCr _{1-x} Mn _x Fe ₂ O ₇ . Journal of Applied Physics, 2011, 110, 074102.	1.1	23
33	Structural, ferroelectric and magnetic properties of Bi _{0.85} Sm _{0.15} FeO ₃ perovskite. Crystal Research and Technology, 2011, 46, 238-242.	0.6	43
34	Exchange bias and ferromagnetic coercivity in heterostructures with antiferromagnetic Cr ₂ O ₃ . Journal of Applied Physics, 2011, 110, .	1.1	25
35	Spin cluster glass and magnetoelectricity in Mn-doped KTaO ₃ . Journal of Applied Physics, 2010, 107, .	1.1	17
36	Effect of Sm substitution on ferroelectric and magnetic properties of BiFeO ₃ . Scripta Materialia, 2010, 62, 238-241.	2.6	95

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37	Study of Ni ²⁺ Mn ²⁺ Ga phase formation by magnetron sputtering film deposition at low temperature onto Si substrates and LaNiO ₃ •Pb(Ti,Zr)O ₃ buffer. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 6-10.	0.9	27
38	Large off-diagonal magnetoelectric coupling in the quantum paraelectric antiferromagnet EuTiO_3 . Physical Review B, 2010, 81, .	1.1	91
39	Multiferroic and magnetoelectric materials – recent developments and perspectives. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2228-2232.	1.7	19
40	Coexistence of Antiferromagnetic and Spin Cluster Glass Order in the Magnetoelectric Relaxor Multiferroic $\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3$. Physical Review Letters, 2010, 105, 257202.	2.9	156
41	Interface-driven magnetoelectric effects in granular CrO_2 . Europhysics Letters, 2010, 91, 17006.	0.7	8
42	Successive antiferromagnetic phase transitions in In_2MnS probed by the exchange bias effect. Applied Physics Letters, 2009, 94, .	1.5	3
43	Epitaxial growth and magnetoelectric relaxor behavior in multiferroic $0.8\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ • $0.2\text{Pb}(\text{Mg}_{1/2}\text{W}_{1/2})\text{O}_3$ thin films. Applied Physics Letters, 2009, 95, 132507.	1.5	19
44	Magnetoelectricity in multiferroically composed multilayers and multiglasses. Journal of Magnetism and Magnetic Materials, 2009, 321, 1785-1789.	1.0	4
45	Doping strategies for increased performance in BiFeO_3 . Journal of Magnetism and Magnetic Materials, 2009, 321, 1692-1698.	1.0	161
46	Effect of Gd substitution on the crystal structure and multiferroic properties of BiFeO_3 . Acta Materialia, 2009, 57, 5137-5145.	3.8	144
47	Multiglass order and magnetoelectricity in Mn^{2+} doped incipient ferroelectrics. European Physical Journal B, 2009, 71, 407-410.	0.6	44
48	Crystal structure and magnetic properties of $\text{Bi}_{0.8}(\text{Gd}_{1-x}\text{Ba}_x)\text{O}_2\text{FeO}_3$ ($x=0, 0.5, 1$) multiferroics. Journal Physics D: Applied Physics, 2009, 42, 045418.	1.3	40
49	Spin-lattice coupling in multiferroic $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ thin films. Applied Physics Letters, 2009, 94, .	1.5	54
50	MAGNETOELECTRIC Cr_2O_3 FOR SPINTRONIC APPLICATIONS. Integrated Ferroelectrics, 2008, 99, 69-76.	0.3	21
51	Thin Cr_2O_3 Films for Magnetoelectric Data Storage Deposited by Reactive E-beam Evaporation. Ferroelectrics, 2008, 370, 147-152.	0.3	16
52	Crystal structure and multiferroic properties of Gd-substituted BiFeO_3 . Applied Physics Letters, 2008, 93, .	1.5	172
53	(Sr,Mn)TiO ₃ : A Magnetoelectric Multiglass. Physical Review Letters, 2008, 101, 165704.	2.9	151
54	Coexistence of spontaneous ferroelectricity and weak ferromagnetism in $\text{Bi}_{0.8}\text{Pb}_{0.2}\text{FeO}_{2.9}$ perovskite. Journal of Physics Condensed Matter, 2008, 20, 155207.	0.7	18

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55	(Sr,Mn)TiO ₃ a magnetoelectrically coupled multiglass. Journal of Physics Condensed Matter, 2008, 20, 434216.	0.7	34
56	ENHANCED MAGNETIZATION IN BiFeO ₃ /BaTiO ₃ MULTILAYERS: AN INTERFACE EFFECT?. Integrated Ferroelectrics, 2008, 100, 165-176.	0.3	25
57	Multiferroic and Magnetoelectric Materials for Spintronics. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 3-11.	0.2	4
58	Superconducting quantum interference device setup for magnetoelectric measurements. Review of Scientific Instruments, 2007, 78, 106105.	0.6	68
59	Application of the magnetoelectric effect to exchange bias. Journal of Magnetism and Magnetic Materials, 2007, 310, 2313-2315.	1.0	16
60	Magnetoelectric exchange bias systems in spintronics. Applied Physics Letters, 2006, 89, 202508.	1.5	163
61	Multiferroically composed exchange bias systems. Phase Transitions, 2006, 79, 1123-1133.	0.6	16
62	Perpendicular exchange bias and its control by magnetic, stress and electric fields. European Physical Journal B, 2005, 45, 197-201.	0.6	22
63	Electrically controlled exchange bias for spintronic applications. Journal of Applied Physics, 2005, 97, 10C514.	1.1	73
64	Magnetoelectric Switching of Exchange Bias. Physical Review Letters, 2005, 94, 117203.	2.9	417
65	Interfacial Magnetoelectric Switching in Multiferroic Heterostructures. Materials Science Forum, 0, 783-786, 1623-1627.	0.3	2