

M I Bichurin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7492175/publications.pdf>

Version: 2024-02-01

132
papers

7,231
citations

136885

32
h-index

54882

84
g-index

138
all docs

138
docs citations

138
times ranked

4165
citing authors

#	ARTICLE	IF	CITATIONS
1	Torsion Mode of the Magneto-Electric Effect in a Metglas/GaAs Layered Structure. IEEE Magnetics Letters, 2022, 13, 1-4.	0.6	1
2	Physics of Composites for Low-Frequency Magnetoelectric Devices. Sensors, 2022, 22, 4818.	2.1	8
3	Ultrasensitive flexible magnetoelectric sensor. APL Materials, 2021, 9, .	2.2	25
4	Magnetoelectric Structure for Energy Harvesting. , 2021, , .		0
5	Magnetoelectric Magnetic Field Sensors: A Review. Sensors, 2021, 21, 6232.	2.1	33
6	Application of magnetoelectric sensors in biomedicine. Journal of Physics: Conference Series, 2021, 2052, 012022.	0.3	2
7	The study of the Metglas/GaAs/Metglas magnetostrictive-piezo-semiconductive structure for practical application. Journal of Physics: Conference Series, 2021, 2052, 012032.	0.3	0
8	Magnetoelectric Effect in the Bidomain Lithium Niobate/Nickel/Metglas Gradient Structure. Physica Status Solidi (B): Basic Research, 2020, 257, 1900398.	0.7	12
9	A Magnetoelectric Automotive Crankshaft Position Sensor. Sensors, 2020, 20, 5494.	2.1	7
10	Modeling and Development of Position Sensors Based on Multiferroic Layered Structures. , 2020, , .		0
11	Self-Biased Bidomain LiNbO3/Ni/Metglas Magnetoelectric Current Sensor. Sensors, 2020, 20, 7142.	2.1	12
12	Hybrid magnetoelectric converter. Journal of Physics: Conference Series, 2020, 1658, 012038.	0.3	2
13	Crankshaft position magnetoelectric sensor for controller area network bus. , 2019, , .		0
14	Statistical thermodynamics of uniaxial ferroelectric: exactly solved model. Ferroelectrics, 2019, 543, 54-66.	0.3	0
15	Magnetic resonance in layered ferrite-piezoelectric structures. Ferroelectrics, 2019, 551, 1-4.	0.3	0
16	Thermal dependence of the lateral shift of a light beam reflected from a liquid crystal cell deposited on a magnetic film. Journal of Applied Physics, 2018, 123, .	1.1	9
17	Magnetoelectric effects at electromechanical resonance in laminates of lead-free piezoelectric bimorph and magnetostrictive component. IOP Conference Series: Materials Science and Engineering, 2018, 441, 012038.	0.3	0
18	Two-range magnetoelectric sensor. AIP Advances, 2017, 7, .	0.6	5

#	ARTICLE	IF	CITATIONS
19	Electric field induced broadening of magnetic resonance line in ferrite/piezoelectric bilayer. Journal of Applied Physics, 2017, 121, 224103.	1.1	5
20	Controlling optical beam shifts upon reflection from a magneto-electric liquid-crystal-based system for applications to chemical vapor sensing. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	16
21	Magnetolectric effects in compositionally-stepped multilayers of lead-free piezoelectric and magnetostrictive components. , 2017, , .		0
22	Exploiting the Goos-Hänchen and Imbert-Fedorov effects in a magneto-electric liquid-crystal-based system for applications to tunable chemical vapor detection. , 2017, , .		0
23	Magnetolectric Current Sensors. Sensors, 2017, 17, 1271.	2.1	50
24	Predicting Magnetolectric Coupling in Layered and Graded Composites. Sensors, 2017, 17, 1651.	2.1	13
25	Voltage-Tunable vapour detector using optical beam shifts in a magneto-electric multilayered structure. , 2017, , .		0
26	Principle of tunable chemical vapor detection exploiting the angular Goos-Hänchen shift in a magneto-electric liquid-crystal-based system. Journal of Optics (United Kingdom), 2017, 19, 095802.	1.0	13
27	The crankshaft position sensor based on magnetolectric materials. , 2016, , .		6
28	Generation of microwave oscillations in a current-driven magnetic nanocontact with ferroelectric and multiferroic junction. , 2016, , .		0
29	Dual tunable magnetolectric resonator in a slot line for Microwave Applications. , 2016, , .		1
30	Modelling of multiferroic microwave patch antenna. , 2016, , .		0
31	Controlling the Goos-Hänchen shift with external electric and magnetic fields in an electro-optic/magneto-electric heterostructure. Journal of Applied Physics, 2016, 119, .	1.1	23
32	Design of Metglas/polyvinylidene fluoride magnetolectric laminates for energy harvesting from power cords. , 2016, , .		1
33	Nomograph method for predicting magnetolectric coupling. Journal of Magnetism and Magnetic Materials, 2016, 412, 1-6.	1.0	4
34	Enhanced Magnetolectric Coupling in Layered Structure of Piezoelectric Bimorph and Metallic Alloy. Journal of Electronic Materials, 2016, 45, 4197-4201.	1.0	4
35	Magnetolectric Alternator. Energy Harvesting and Systems, 2016, 3, 173-180.	1.7	0
36	Simulation of hysteresis curves of crystalline ferroelectrics using the controlling electric field parameters. Technical Physics, 2015, 60, 1803-1808.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Magnetolectric energy harvester. , 2015, , 161-207.		5
38	Low-Frequency Magnetolectric Effects in Magnetostrictive-Piezoelectric Composites. Springer Series in Materials Science, 2014, , 19-44.	0.4	3
39	Magnetolectric Laminate Composite: Effect of Piezoelectric Layer on Magnetolectric Properties. Ferroelectrics, 2014, 473, 110-128.	0.3	7
40	Bending modes of two-phase magnetolectric structure. , 2014, , .		0
41	Current sensor based on magnetolectric effect. , 2014, , .		5
42	Hysteresis curves for ferroelectric crystals in a varying external field. Relaxation model. Technical Physics, 2014, 59, 1158-1162.	0.2	3
43	Modeling of Magnetolectric Effects in Composites. Springer Series in Materials Science, 2014, , .	0.4	35
44	Magnetolectric Interaction in Solids. Springer Series in Materials Science, 2014, , 1-17.	0.4	1
45	Maxwell-Wagner Relaxation in ME Composites. Springer Series in Materials Science, 2014, , 45-56.	0.4	2
46	Magnetolectric Effect in Electromechanical Resonance Region. Springer Series in Materials Science, 2014, , 57-73.	0.4	0
47	Magnetic Resonance in Composites. Springer Series in Materials Science, 2014, , 75-92.	0.4	0
48	ME Effect at Magnetoacoustic Resonance Range. Springer Series in Materials Science, 2014, , 93-104.	0.4	0
49	Magnetolectric effect at thickness shear mode in ferrite-piezoelectric bilayer. Applied Physics Letters, 2013, 103, .	1.5	32
50	Modeling the Hysteretic Behavior of Textured and Random Ferroelectric Ceramics. Solid State Phenomena, 2013, 202, 127-141.	0.3	2
51	Electromechanical Resonance in Magnetolectric Composites: Direct and Inverse Effect. Solid State Phenomena, 2012, 189, 129-143.	0.3	11
52	Multiferroic Magnetolectric Composites and Their Applications. Advances in Condensed Matter Physics, 2012, 2012, 1-3.	0.4	41
53	Microwave Magnetolectric Devices. Advances in Condensed Matter Physics, 2012, 2012, 1-10.	0.4	30
54	Modeling of Magnetolectric Interaction in Magnetostrictive-Piezoelectric Composites. Advances in Condensed Matter Physics, 2012, 2012, 1-12.	0.4	29

#	ARTICLE	IF	CITATIONS
55	Tunable magnetoelectric response of dimensionally gradient laminate composites. Applied Physics Letters, 2012, 100, .	1.5	18
56	Multimodal energy harvesting system. Proceedings of SPIE, 2011, , .	0.8	3
57	Demagnetizing factors for two parallel ferromagnetic plates and their applications to magnetoelectric laminated sensors. Journal of Applied Physics, 2011, 109, .	1.1	24
58	Magnetoelectric Interaction in Magnetically Ordered Materials (Review)., 2011, , .		3
59	Magnetoelectric Interactions in Lead-Based and Lead-Free Composites. Materials, 2011, 4, 651-702.	1.3	52
60	Electrically-tunable MM-wave waveguide phase shifter based on hexaferrite-piezoelectric layered structure. , 2010, , .		0
61	Electromechanical resonance in magnetoelectric layered structures. Physics of the Solid State, 2010, 52, 2116-2122.	0.2	48
62	Microwave magnetoelectric effects in bilayers of piezoelectrics and ferrites with cubic magnetocrystalline anisotropy. Journal of Applied Physics, 2010, 108, 063923.	1.1	20
63	Microwave magnetoelectric effects in ferrite-”piezoelectric composites and dual electric and magnetic field tunable filters. Journal of Electroceramics, 2010, 24, 5-9.	0.8	47
64	Magnetoelectric effect in magnetostriction-piezoelectric multiferroics. Low Temperature Physics, 2010, 36, 544-549.	0.2	29
65	Present status of theoretical modeling the magnetoelectric effect in magnetostrictive-piezoelectric nanostructures. Part I: Low frequency and electromechanical resonance ranges. Journal of Applied Physics, 2010, 107, 053904.	1.1	54
66	Electromechanical resonance in ferrite-piezoelectric nanopillars, nanowires, nanobilayers, and magnetoelectric interactions. Journal of Applied Physics, 2010, 107, .	1.1	19
67	Modeling of the magnetoelectric effect in finite-size three-layer laminates under closed-circuit conditions. Journal of Applied Physics, 2010, 107, 09D914.	1.1	5
68	Present status of theoretical modeling the magnetoelectric effect in magnetostrictive-piezoelectric nanostructures. Part II: Magnetic and magnetoacoustic resonance ranges. Journal of Applied Physics, 2010, 107, .	1.1	25
69	Metal-ceramic laminate composite magnetoelectric gradiometer. Review of Scientific Instruments, 2010, 81, 033906.	0.6	10
70	Microwave and MM-wave magnetoelectric interactions in ferrite-ferroelectric bilayers. European Physical Journal B, 2009, 71, 371-375.	0.6	26
71	Magnetoelectric gradiometer. European Physical Journal B, 2009, 71, 387-392.	0.6	7
72	Magnetoelectric gyrator. European Physical Journal B, 2009, 71, 383-385.	0.6	34

#	ARTICLE	IF	CITATIONS
73	Modelling of magneto-acoustic resonance in ferrite-piezoelectric bilayers. Journal Physics D: Applied Physics, 2009, 42, 215001.	1.3	3
74	Microwave magnetoelectric effects in bilayer of ferrite and piezoelectric. EPJ Applied Physics, 2009, 45, 30801.	0.3	14
75	Flexural deformation and bending mode of magnetoelectric nanobilayer. Journal of Applied Physics, 2009, 106, .	1.1	26
76	Theory of magnetoelectric effect for bending modes in magnetostrictive-piezoelectric bilayers. Journal of Applied Physics, 2009, 105, .	1.1	105
77	A magnetic field controlled negative-index microwave lens. Microwave and Optical Technology Letters, 2008, 50, 2804-2807.	0.9	4
78	Multiferroic magnetoelectric composites: Historical perspective, status, and future directions. Journal of Applied Physics, 2008, 103, .	1.1	3,224
79	Large magnetoelectric susceptibility: The fundamental property of piezoelectric and magnetostrictive laminated composites. Journal of Applied Physics, 2007, 101, 014102.	1.1	54
80	Three-dimensional left-handed material lens. Applied Physics Letters, 2007, 91, .	1.5	4
81	Magnetoelectric Tunable Microwave Band-Pass Filter. , 2007, , .		0
82	Theory of magnetoelectric effects in ferrite piezoelectric nanocomposites. Physical Review B, 2007, 75, .	1.1	105
83	Magnetoelectric effects in porous ferromagnetic-piezoelectric bulk composites: Experiment and theory. Physical Review B, 2007, 75, .	1.1	78
84	Magnetoelectric interactions in ferromagnetic-piezoelectric layered structures: Phenomena and devices. Journal of Electroceramics, 2007, 19, 243-250.	0.8	69
85	A quasi(unidirectional) Tellegen gyrator. Journal of Applied Physics, 2006, 100, 124509.	1.1	67
86	Ferrite-Piezoelectric Composites for Microwave Devices. , 2006, , .		0
87	Magnetoelectric gyration effect in $Tb_{1-x}Dy_xFe_2 \cdot y \cdot Pb(Zr,Ti)O_3$ laminated composites at the electromechanical resonance. Applied Physics Letters, 2006, 89, 243512.	1.5	84
88	Magnetoelectric microwave phase shifter. Applied Physics Letters, 2006, 88, 183507.	1.5	98
89	Magnetoacoustic resonance in tangentially magnetized ferrite-piezoelectric bilayers. Technical Physics Letters, 2006, 32, 1021-1023.	0.2	7
90	Microwave Magneto-Electric Interactions in Multiferroics. Materials Research Society Symposia Proceedings, 2006, 966, 1.	0.1	1

#	ARTICLE	IF	CITATIONS
91	Electric-Field-Induced Shift of the Magnetic Resonance Line in Ferriteâ€“Piezoelectric Composites. Technical Physics Letters, 2005, 31, 673.	0.2	2
92	Magnetolectric effect in hybrid magnetostrictive-piezoelectric composites in the electromechanical resonance region. Journal of Applied Physics, 2005, 97, 113910.	1.1	24
93	Magnetolectric interactions in bilayers of yttrium iron garnet and lead magnesium niobate-lead titanate: Evidence for strong coupling in single crystals and epitaxial films. Applied Physics Letters, 2005, 86, 222506.	1.5	30
94	Resonant magnetolectric coupling in trilayers of ferromagnetic alloys and piezoelectric lead zirconate titanate: The influence of bias magnetic field. Physical Review B, 2005, 71, .	1.1	109
95	Theory of magnetolectric effects at magnetoacoustic resonance in single-crystal ferromagnetic-ferroelectric heterostructures. Physical Review B, 2005, 72, .	1.1	79
96	Frequency and field dependence of magnetolectric interactions in layered ferromagnetic transition metal-piezoelectric lead zirconate titanate. Applied Physics Letters, 2005, 87, 222507.	1.5	71
97	FERROMAGNETIC-FERROELECTRIC LAYERED STRUCTURES: MAGNETOELECTRIC INTERACTIONS AND DEVICES. Integrated Ferroelectrics, 2005, 71, 45-57.	0.3	18
98	Influence of mechanical boundary conditions and microstructural features on magnetolectric behavior in a three-phase multiferroic particulate composite. Physical Review B, 2004, 70, .	1.1	29
99	Giant magnetolectric effect in composite materials in the region of electromechanical resonance. Technical Physics Letters, 2004, 30, 6-8.	0.2	43
100	Resonant amplification of the magnetolectric effect in ferrite-piezoelectric composites. Physics of the Solid State, 2004, 46, 1674-1680.	0.2	34
101	Microwave magnetolectric effects in single crystal bilayers of yttrium iron garnet and lead magnesium niobate-lead titanate. Physical Review B, 2004, 70, .	1.1	181
102	Magnetolectric Effects in Ferromagnetic and Piezoelectric Multilayer Composites. , 2004, , 35-55.		3
103	Magnetolectric Effects in Ferromagnetic Metal-Piezoelectric Oxide Layered Structures. , 2004, , 57-63.		2
104	Modeling of Magnetolectric Effects in Ferromagnetic / Piezoelectric Bulk Composites. , 2004, , 65-70.		11
105	Left-Handed Materials Based on Ferromagnetic â€” Ferroelectric Composites. , 2004, , 81-86.		2
106	Electromechanical Resonance in Multilayer and Bulk Magnetolectric Composites. , 2004, , 71-80.		0
107	Resonance magnetolectric effects in layered magnetostrictive-piezoelectric composites. Physical Review B, 2003, 68, .	1.1	391
108	Theory of low-frequency magnetolectric coupling in magnetostrictive-piezoelectric bilayers. Physical Review B, 2003, 68, .	1.1	451

#	ARTICLE	IF	CITATIONS
109	Magnetolectric Sensor of Magnetic Field. <i>Ferroelectrics</i> , 2002, 280, 199-202.	0.3	39
110	Short Introduction to the Proceedings of MEIPIC-4. <i>Ferroelectrics</i> , 2002, 280, 23-26.	0.3	0
111	Electrodynamics Analysis of Strip Line on Magnetolectric Substrate. <i>Ferroelectrics</i> , 2002, 280, 203-209.	0.3	4
112	Modeling of Magnetolectric Effect in Ferromagnetic/Piezoelectric Multilayer Composites. <i>Ferroelectrics</i> , 2002, 280, 165-175.	0.3	34
113	Magnetic and magnetolectric susceptibilities of a ferroelectric/ferromagnetic composite at microwave frequencies. <i>Physical Review B</i> , 2002, 66, .	1.1	131
114	Theory of low-frequency magnetolectric effects in ferromagnetic-ferroelectric layered composites. <i>Journal of Applied Physics</i> , 2002, 92, 7681-7683.	1.1	215
115	Resonance Magnetolectric Effect in Multilayer Composites. <i>Ferroelectrics</i> , 2002, 280, 187-197.	0.3	8
116	Magnetolectric Microwave Devices. <i>Ferroelectrics</i> , 2002, 280, 211-218.	0.3	19
117	Short Introduction to the Proceedings of MEIPIC-4. <i>Ferroelectrics</i> , 2002, 279, 17-20.	0.3	1
118	Short Introduction to the Proceedings of MEIPIC-4. <i>Ferroelectrics</i> , 2002, 279, xvii-xx.	0.3	2
119	Theory of magnetolectric effects at microwave frequencies in a piezoelectric/magnetostrictive multilayer composite. <i>Physical Review B</i> , 2001, 64, .	1.1	135
120	Magnetolectric properties of LiCoPO ₄ and LiNiPO ₄ . <i>Physical Review B</i> , 2000, 62, 12247-12253.	1.1	130
121	Magnetolectric properties of LiCoPO ₄ : microscopic theory. <i>Physica B: Condensed Matter</i> , 1999, 271, 304-308.	1.3	19
122	Optical absorption of Co ²⁺ in LiCoPO ₄ . <i>Physica B: Condensed Matter</i> , 1999, 270, 82-87.	1.3	10
123	Microscopic mechanism of magnetolectric effect in microwave range. <i>Ferroelectrics</i> , 1997, 204, 225-232.	0.3	13
124	Magnetolectric microwave phase shifters. <i>Ferroelectrics</i> , 1997, 204, 311-319.	0.3	43
125	Investigation of magnetolectric interaction in composite. <i>Ferroelectrics</i> , 1997, 204, 289-297.	0.3	50
126	Influence of external electric field on magnetic resonance frequency in magnetic ferroelectrics. <i>Ferroelectrics</i> , 1995, 167, 147-150.	0.3	6

#	ARTICLE	IF	CITATIONS
127	Composite magnetoelectrics: Their microwave properties. <i>Ferroelectrics</i> , 1994, 162, 33-35.	0.3	26
128	Magnetoelectrics in microwave range. <i>Ferroelectrics</i> , 1994, 161, 53-57.	0.3	5
129	Structure – Property Relationships of Near-Eutectic BaTiO ₃ – CoFe ₂ O ₄ Magnetoelectric Composites. , 0, , .		0
130	Bending Modes and Magnetoelectric Effects in Asymmetric Ferromagnetic-Ferroelectric Structure. <i>Solid State Phenomena</i> , 0, 190, 281-284.	0.3	5
131	Magnetic Field Tunable Electromechanical Resonance Properties of Magnetoelectric Bilayer. <i>Solid State Phenomena</i> , 0, 233-234, 349-352.	0.3	1
132	Magnetoelectric Effect in Ferrite-Piezoelectric Dual-Phase Structure. <i>Solid State Phenomena</i> , 0, 233-234, 353-356.	0.3	0