Bovtun Viktor

List of Publications by Year
in descending order

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103	2,604	201674	206112
papers	citations	27 h-index	48 g-index

104	104	104	2411
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unusual dynamics of the ferroelectric phase transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> crystals. Physical Review B, 2022, 105, .	3.2	2
2	Ferroelectric soft mode and microwave dielectric relaxation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:m mathvariant="normal">O</mml:m. Physical Review Materials, 2021, 5, .	2.4	4
3	Broadband Dielectric, Terahertz, and Infrared Spectroscopy of BaTiO₃â€“BaZrO₃ Solid Solution: From Proper Ferroelectric over Diffuse and Relaxor Ferroelectrics and Dipolar Glass to Normal Dielectric. Physica Status Solidi (B): Basic Research, 2021, 258, 2100259.	1.5	6
4	Magnetoelectric coupling in multiferroic Z-type hexaferrite revealed by electric-field-modulated magnetic resonance studies. Journal of Materials Science, 2020, 55, 7624-7633.	3.7	8
5	A mixing formula accounting for inversion of matrix structure. AIP Advances, 2020, 10, 015115.	1.3	1
6	Soft mode driven local ferroelectric transition in lead-based relaxors. Applied Physics Letters, 2019, 114, .	3.3	3
7	Dynamics of mesoscopic polarization in the uniaxial tetragonal tungsten bronze (SrxBa1â^'x)Nb2O6. Physical Review B, 2019, 100, .	3.2	3
8	Dielectric relaxation in epitaxial films of paraelectric-magnetic SrTiO3-SrMnO3 solid solution. Applied Physics Letters, 2018, 112, .	3.3	2
9	Microwave absorbing and shielding properties of inhomogeneous conductors and high-loss dielectrics. Ferroelectrics, 2018, 532, 57-66.	0.6	5
10	Origin of the colossal permittivity of (Nbâ€‰+â€‰In) co-doped rutile ceramics by wide-range dielectric spectroscopy. Phase Transitions, 2018, 91, 932-941.	1.3	14
11	Composition dependent microwave properties of dielectric-conductor nanocomposites. Phase Transitions, 2018, 91, 1027-1035.	1.3	6
12	Wide range dielectric and infrared spectroscopy of (Nb+In) co-doped rutile ceramics. Physical Review Materials, 2018, 2, .	2.4	21
13	Multiple polarization mechanisms across the ferroelectric phase transition of the tetragonal tungsten-bronze <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow><mml:mn>0.35 mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>6.04</mml:mn></mml:mrow></mml:msub></mml:mrow>. Physical Review Materials, 2018, 2, .	2.4	8
14	Interfaced conducting polymers. Synthetic Metals, 2017, 224, 109-115.	3.9	15
15	Spin-phonon coupling in epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.6</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">	3.2	12
16	Unusual ferroelectric and magnetic phases in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:msub><mml:mrow><mml:mi>H</mml:mi> ceramics. Physical Review B, 2017, 95, .	3.2	8
17	Dynamics and spectroscopy of the soft and central modes in <mml:math		

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19	Diamond Coated LW-SAW Sensors-Study of Diamond Thickness Effect. Proceedings (mdpi), 2017, 1, .	0.2	0
20	Effective dielectric function of BaTiO3-NiO composites. , 2016, , .		0
21	THz spectroscopic investigations of magnetodielectric coupling in Sr<inf>0.55</inf>Ba<inf>0.45</inf>MnO<inf>3</inf> ceramics. , 2016, , .		0
22	Viscoelastic properties of cellular polypropylene ferroelectrets. Journal of Applied Physics, 2016, 119, 125101.	2.5	10
23	Spectroscopic studies of the ferroelectric and magnetic phase transitions in multiferroic Sr_{1â^'x}Ba_xMnO₃. Journal of Physics Condensed Matter, 2016, 28, 175901.	1.8	11
24	Raman spectra and anomalies of dielectric properties and thermal expansion of lead-free (1â^'x)Na0.5Bi0.5TiO3-xSrTiO3 (x = 0, 0.08 and 0.1) ceramics. Phase Transitions, 2016, 89, 823-828.	1.3	3
25	Dielectric, thermal and Raman spectroscopy studies of lead-free (Na0.5Bi0.5)1â^'xSrxTiO3 (x = 0, 0.04 and) Tj ETQq1 1 0.784314 rgBT /(	1.3	4
26	Lattice dynamics and domain wall oscillations of morphotropic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:m mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>ceramics. Physical Review B, 2016, 94, .	3.2	20
27	Broadband dielectric spectroscopy of standard and core-shell BaTiO₃-NiO ceramic composites compared to the BaTiO₃ ceramics. Ferroelectrics, 2016, 500, 1-19.	0.6	6
28	Broad-band dielectric response of 0.5Ba(Ti_{0.8}Zr_{0.2})O₃â€“0.5(Ba_{0.7}Ca_{0.3})TiO₃piezoceram soft and central mode behaviour. Phase Transitions, 2016, 89, 785-793.	1.3	8
29	High-Frequency Dielectric Properties of Nanocomposite and Ceramic Titanates. IEEE Nanotechnology Magazine, 2015, 14, 585-592.	2.0	3
30	Lattice dynamics and dielectric spectroscopy of BZT and NBT lead-free perovskite relaxors â€“ comparison with lead-based relaxors. Phase Transitions, 2015, 88, 320-332.	1.3	27
31	Broadband Dielectric Spectroscopy of Ba(Zr,Ti)O₃: Dynamics of Relaxors and Diffuse Ferroelectrics. Ferroelectrics, 2014, 469, 14-25.	0.6	33
32	Peculiar Bi-ion dynamics in Na_{1/2}Bi_{1/2}TiO₃from terahertz and microwave dielectric spectroscopy. Phase Transitions, 2014, 87, 953-965.	1.3	24
33	Modeling of metal-dielectric nanocomposite coatings with ferromagnetic inclusions for electromagnetic protection of electronic devices. , 2014, , .		6
34	Conductivity of metal (Al, Cu)-dielectric composites and modeling of the single- and multi-layer composite coatings for microwave applications. , 2014, , .		4
35	Synthesis and dielectric properties of BaTi<inf>1−x</inf>Zr<inf>x</inf>O<inf>3</inf>-based ceramic and film materials. , 2014, , .		0
36	Strong spin-phonon coupling in infrared and Raman spectra of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>SrMnO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:ma Physical Review B, 2014, 89, .	3.2	49

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37	Origin of the correlation between the standard Gibbs energies of ion transfer from water to a hydrophobic ionic liquid and to a molecular solvent. Electrochimica Acta, 2013, 87, 591-598.	5.2	8
38	Optical, magnetic, and dielectric properties of opal matrices with intersphere nanocavities filled with crystalline multiferroic, piezoelectric, and segnetoelectric materials. Russian Journal of General Chemistry, 2013, 83, 2132-2147.	0.8	7
39	Microwave characterization of dielectric substrates for thin films deposition. , 2013, , .		2
40	Broadband dielectric and conductivity spectroscopy of inhomogeneous and composite conductors. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2259-2271.	1.8	50
41	Polar phonon anomalies in single-crystalline TbScO₃. Phase Transitions, 2013, 86, 206-216.	1.3	16
42	Dielectric properties of carbon nanofibre/alumina composites. Carbon, 2013, 57, 380-387.	10.3	15
43	Broad-band conductivity and dielectric spectroscopy of composites of multiwalled carbon nanotubes and poly(ethylene terephthalate) around their low percolation threshold. Nanotechnology, 2013, 24, 055707.	2.6	47
44	Broadband dielectric and conductivity spectra of dielectric — Metal nanocomposites for microwave applications. , 2013, , .		5
45	Enhanced electromechanical response of ferroelectret ultrasonic transducers under high voltage excitation. Advances in Applied Ceramics, 2013, 112, 97-102.	1.1	12
46	Ferroelektret-PrÃ¼fkÃ¶pfe fÃ¼r die zerstÃ¶rungsfreie PrÃ¼fung mit Luftultraschall. Materialpruefung/Materials Testing, 2013, 55, 96-102.	2.2	1
47	Piezoelectric and electrostrictive effects in ferroelectret ultrasonic transducers. Journal of Applied Physics, 2012, 112, 084505.	2.5	27
48	Magnetodielectric effect and phonon properties of compressively strained EuTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>thin films deposited on (001)(LaAlO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	21
49	Lattice dynamics and broad-band dielectric properties of the KTaO3 ceramics. Journal of Applied Physics, 2012, 111, .	2.5	19
50	Broadband dielectric response of Ba(Zr,Ti)O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>ceramics: From incipient via relaxor and diffuse up to classical ferroelectric behavior. Physical Review B, 2012, 86, .	3.2	66
51	Incipient Ferroelectric Properties of NaTaO₃. Ferroelectrics, 2012, 426, 206-214.	0.6	8
52	Design of microwave dielectric resonator antenna using MZTOâ€“CSTO composite. Ceramics International, 2012, 38, 2355-2362.	4.8	18
53	Ferroelectric phase transition in polycrystalline KTaO3 thin film revealed by terahertz spectroscopy. Applied Physics Letters, 2011, 99, .	3.3	26
54	Parameter reproducibility of polypropylene ferroelectret transducers for air-coupled ultrasonic testing. , 2011, , .		1

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55	An electrode-free method of characterizing the microwave dielectric properties of high-permittivity thin films. Journal of Applied Physics, 2011, 109, .	2.5	22
56	Dielectric, magnetic and structural properties of novel multiferroic Eu_{0.5}Ba_{0.5}TiO₃ceramics. Journal of Physics Condensed Matter, 2011, 23, 025904.	1.8	18
57	Nonlinear electromechanical response of the ferroelectret ultrasonic transducers. Applied Physics A: Materials Science and Processing, 2010, 100, 479-485.	2.3	20
58	Ultrabroadband dielectric spectroscopy and phonons in (Pb1â^'x/2Lax)(Zr0.9Ti0.1)O3. Journal of Applied Physics, 2010, 108, 104101.	2.5	17
59	Broadband dielectric response and grain-size effect in K0.5Na0.5NbO3 ceramics. Journal of Applied Physics, 2010, 107, .	2.5	58
60	Dielectric, magnetic, and lattice dynamics properties of Y-type hexaferrite Ba0.5Sr1.5Zn2Fe12O22: Comparison of ceramics and single crystals. Journal of Applied Physics, 2010, 107, .	2.5	35
61	Properties of BaTiO<inf>3</inf> confined in opal matrices — lattice packings of nanospheres silica dioxide. , 2010, , .		0
62	Broadband dielectric spectroscopy of phonons and polar nanoclusters in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PbMg</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2009, 79, .	3.2	48
63	Soft mode behavior in SrTiO3/DyScO3 thin films: Evidence of ferroelectric and antiferrodistortive phase transitions. Applied Physics Letters, 2009, 95, .	3.3	44
64	Broad-band dielectric spectroscopy and ferroelectric soft-mode response in the Ba_{0.6}Sr_{0.4}TiO₃solid solution. Journal of Physics Condensed Matter, 2009, 21, 474215.	1.8	37
65	Ferroelectric and Incipient Ferroelectric Properties of a Novel Sr9â^'xPbxCe2Ti2O36(x = 0â^'9) Ceramic System. Chemistry of Materials, 2009, 21, 811-819.	6.7	16
66	MICROWAVE CHARACTERIZATION OF THIN FERROELECTRIC FILMS WITHOUT ELECTRODES BY COMPOSITE DIELECTRIC RESONATOR. Integrated Ferroelectrics, 2008, 98, 53-61.	0.7	11
67	Second harmonic generation and dielectric study of the fine and coarse grain PMN-35PT ceramics. Phase Transitions, 2008, 81, 1059-1064.	1.3	6
68	Air-Coupled Ultrasonic Applications of Ferroelectrets. Ferroelectrics, 2008, 370, 11-17.	0.6	19
69	Quantum paraelectric behavior of pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Pb</mml:mi><mml:mn>1.83</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Mg</mml:mi><mml:mn>0.29</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Nb</mml:mi><mml:mn>1.71</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6.39</mml:mn></mml:msub></mml:mrow></mml:math>. Phy	3.2	19
70	Relaxor-like behavior of lead-free Sr2LaTi2Nb3O15 ceramics with tetragonal tungsten bronze structure. Journal of Applied Physics, 2007, 101, 054115.	2.5	29
71	Dielectric relaxation and polar phonon softening in relaxor ferroelectric PbMg1/3Ta2/3O3. Journal of Applied Physics, 2007, 102, 074106.	2.5	32
72	Microwave Characterization of Bulk Ferroelectrics and Relaxors using Composite Dielectric Resonator. , 2007, , .		0

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73	Air-Coupled Ultrasonic Transducers Based on Cellular Polypropylene Ferroelectret Films. Ferroelectrics, 2007, 353, 186-192.	0.6	7
74	Ferroelectret non-contact ultrasonic transducers. Applied Physics A: Materials Science and Processing, 2007, 88, 737-743.	2.3	41
75	Complex permittivity measurements of ferroelectrics employing composite dielectric resonator technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1883-1888.	3.0	20
76	Comparison of microwave dielectric behavior between Bi1.5Zn0.92Nb1.5O6.92 and Bi1.5ZnNb1.5O7. Journal of the European Ceramic Society, 2006, 26, 1889-1893.	5.7	30
77	Broad-band dielectric response of PbMg1/3Nb2/3O3 relaxor ferroelectrics: Single crystals, ceramics and thin films. Journal of the European Ceramic Society, 2006, 26, 2867-2875.	5.7	91
78	Publisher's Note: Dynamics of the phase transitions in Bi-layered ferroelectrics with Aurivillius structure: Dielectric response in the terahertz spectral range [Phys. Rev. B74, 134105 (2006)]. Physical Review B, 2006, 74, .	3.2	0
79	Dynamics of the phase transitions in Bi-layered ferroelectrics with Aurivillius structure: Dielectric response in the terahertz spectral range. Physical Review B, 2006, 74, .	3.2	27
80	Dielectric spectra of a new relaxor ferroelectric system Ba2LnTi2Nb3O15 (Ln=La, Nd). Journal of the European Ceramic Society, 2005, 25, 3069-3073.	5.7	26
81	Soft and central mode behaviour in PbMg1/3Nb2/3O3relaxor ferroelectric. Journal of Physics Condensed Matter, 2005, 17, 3965-3974.	1.8	91
82	Comparison of the Dielectric Response of Relaxor PbMg1/3 Nb2/3O3 Ceramics and Single Crystals. Integrated Ferroelectrics, 2005, 69, 3-10.	0.7	9
83	Broad-Band Dielectric Spectroscopy of PZN-8%PT Single Crystal. Ferroelectrics, 2005, 318, 179-183.	0.6	9
84	Characterisation of carbon black filled rubber compounds by the Microwave Coaxial Method. Materialpruefung/Materials Testing, 2005, 47, 118-122.	2.2	2
85	Broad-band dielectric spectroscopy ofSrTiO3:Biceramics. Physical Review B, 2004, 69, .	3.2	33
86	Temperature Dependence of Microwave and THz Dielectric Response in Srn + 1TinO3n + 1 (n = 1â€“4). Integrated Ferroelectrics, 2004, 62, 199-203.	0.7	11
87	Low-Temperature Dielectric Response of Relaxor Ferroelectrics and Related Disordered Materials. Ferroelectrics, 2004, 302, 241-245.	0.6	0
88	Broad-band dielectric response of doped incipient ferroelectrics. Journal of the European Ceramic Society, 2004, 24, 1545-1549.	5.7	16
89	Central-Peak Components and Polar Soft Mode in Relaxor PbMg1/3Nb2/3O3Crystals. Ferroelectrics, 2004, 298, 23-30.	0.6	87
90	High-Frequency Dielectric Spectroscopy and Soft Lattice Dynamics of Disordered Ferroelectrics. Ferroelectrics, 2004, 298, 219-233.	0.6	5

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91	Dielectric relaxation in tetragonal tungsten bronze ceramics. Journal of Physics and Chemistry of Solids, 2003, 64, 471-476.	4.0	44
92	Frequency-independent dielectric losses (1/fnoise) in PLZT relaxors at low temperatures. Journal of Physics Condensed Matter, 2003, 15, 6017-6030.	1.8	54
93	Anomalous broad dielectric relaxation inBi1.5Zn1.0Nb1.5O7pyrochlore. Physical Review B, 2002, 66, .	3.2	193
94	Wide-Frequency Range Dielectric Relaxations in Sr 1â^'1.5x Bi x TiO 3 Ceramics. Ferroelectrics, 2002, 272, 357-362.	0.6	4
95	Wide-Frequency Range Dielectric Relaxations in Sr 1â^'1.5x Bi x TiO 3 Ceramics. Ferroelectrics, 2002, 272, 357-362.	0.6	1
96	Far infrared and Raman spectroscopy of ferroelectric soft mode in SrTiO3 thin films and ceramics. Integrated Ferroelectrics, 2001, 32, 11-20.	0.7	8
97	Structure of the dielectric spectrum of relaxor ferroelectrics. Journal of the European Ceramic Society, 2001, 21, 1307-1311.	5.7	117
98	Polar phonons and central mode in antiferroelectric PbZrO3ceramics. Journal of Physics Condensed Matter, 2001, 13, 2677-2689.	1.8	55
99	Dielectric, infrared, and Raman response of undopedSrTiO3ceramics: Evidence of polar grain boundaries. Physical Review B, 2001, 64, .	3.2	248
100	Microwave dielectric properties of the Ag1â^'xLixNbO3(x = 0 Ã· 0.06) ceramics. Ferroelectrics, 2000, 238, 131-138.	0.6	14
101	Microwave dielectric properties of the ordered and disordered Pb(ScÂ½TaÂ½)o3ceramics. Ferroelectrics, 2000, 238, 17-24.	0.6	15
102	Dielectric dispersion of the relaxor PLZT ceramics in the frequency range 20 Hz-100 THz. Journal of Physics Condensed Matter, 2000, 12, 497-519.	1.8	155
103	Infrared and microwave dielectric response of the disordered antiferroelectric Ag(Ta,Nb)O3system. Ferroelectrics, 1999, 223, 235-246.	0.6	52