Petr S Bednyakov

List of Publications by Year
in descending order

30	747	1163117 8	642732 23
papers	citations	h-index	g-index

30	30	30	1235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Real and imaginary permittivity measured by thermal noise dielectric spectroscopy. Journal of Applied Physics, 2022, 131, 214101.	2.5	0
2	Lead-substituted barium hexaferrite for tunable terahertz optoelectronics. NPG Asia Materials, 2021, 13, .	7.9	7
3	Dielectric ordering of water molecules arranged in a dipolar lattice. Nature Communications, 2020, 11, 3927.	12.8	33
4	Broadband dielectric spectroscopy of La0.65Sr0.35MnO3@TiO2 coreâ€“shell nanocomposites. Journal of Physics Condensed Matter, 2020, 32, 415701.	1.8	1
5	Broad-Band Spectroscopy of Nanoconfined Water Molecules. IFMBE Proceedings, 2020, , 7-11.	0.3	0
6	Hertz-to-terahertz dielectric response of nanoconfined water molecules. , 2019, , .		0
7	Hertz-To-Terahertz Dielectric Response of Nanoconfined Water Molecules. Proceedings (mdpi), 2019, 26, .	0.2	1
8	Black aluminum-coated Pt/Pb(Zr0.56Ti0.44)O3/Pt thin film structures for pyroelectric energy harvesting from a light source. Journal of Applied Physics, 2019, 126, .	2.5	13
9	H₂O Molecules Hosted By A Crystalline Matrix â€“ New State Of Water?. EPJ Web of Conferences, 2018, 195, 06018.	0.3	4
10	Physics and applications of charged domain walls. Npj Computational Materials, 2018, 4, .	8.7	128
11	Acoustic phonons in unfilled tetragonal tungsten-bronze crystals. Phase Transitions, 2018, 91, 976-983.	1.3	4
12	Extrinsic permittivity in domain engineered rhombohedral BaTiO3 monocrystal. Journal of Applied Physics, 2018, 124, 024101.	2.5	1
13	Dielectric and polarization studies of magnetoelectric coupling in non-relaxor Pb(Fe_{1/2}Ta_{1/2})O₃ multiferroic ceramics. Ferroelectrics, 2017, 509, 80-91.	0.6	4
14	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:ni>H</mml:mi></mml:mrow> ceramics. Physical Review B, 2017, 95, .	3.2	8
15	Observation of dielectric universalities in albumin, cytochrome C and Shewanella oneidensis MR-1 extracellular matrix. Scientific Reports, 2017, 7, 15731.	3.3	8
16	Fast polarization mechanisms in the uniaxial tungsten-bronze relaxor strontium barium niobate SBN-81. Scientific Reports, 2017, 7, 18034.	3.3	13
17	Freeâ€Carrierâ€Compensated Charged Domain Walls Produced with Superâ€Bandgap Illumination in Insulating Ferroelectrics. Advanced Materials, 2016, 28, 9498-9503.	21.0	20
18	Investigation of ferroelectric materials by the thermal noise method: Advantages and limitations. Ferroelectrics, 2016, 500, 203-217.	0.6	2

#	Article	IF	Citations
19	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
20	Electric-field influence on the neutron diffuse scattering near the ferroelectric transition of Sr0.61Ba0.39Nb2O6. Phase Transitions, 2016, 89, 808-815.	1.3	6
21	Charged Domain Walls in Ferroelectrics. Springer Series in Materials Science, 2016, , 103-138.	0.6	21
22	Formation of charged ferroelectric domain walls with controlled periodicity. Scientific Reports, 2015, 5, 15819.	3.3	83
23	Correlation between domain structure and piezoelectric properties: Experimental study of (111)<inf>c</inf> oriented BaTiO<inf>3</inf> single crystal. , 2014, , .		0
24	Free-electron gas at charged domain walls in insulating BaTiO3. Nature Communications, 2013, 4, 1808.	12.8	367
25	Dielectric and Piezoelectric Properties of K(Ta_{0.51}Nb_{0.49})O₃Single Crystal. Ferroelectrics, 2013, 447, 108-116.	0.6	4
26	Dielectric properties of K(Ta<inf>0.53</inf>Nb<inf>0.47</inf>)O<inf>3</inf> single crystal. , 2012, , .		0
27	Investigation of the dielectric properties of BaTiO3 single crystals of different qualities by the thermal noise method. Physics of the Solid State, 2011, 53, 350-357.	0.6	8
28	Investigation of the dielectric properties of polymer composite films with a ferroelectric filler using the bridge and thermal noise methods. Moscow University Physics Bulletin (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	1
29	An automated setup for studying thin ferroelectric films by the thermal-noise method. Instruments and Experimental Techniques, 2010, 53, 737-742.	0.5	2
30	Nanoscale Conductive Sheets in Ferroelectric BaTiO₃: Large Hall Electron Mobilities at Head-to-Head Domain Walls. ACS Applied Nano Materials, 0, , .	5.0	3