

B P Gorshunov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	899 citations	15 h-index	26 g-index
104 ext. papers	1,083 ext. citations	2.7 avg, IF	3.5 L-index

#	Paper	IF	Citations
92	New Ground State of Dipolar Lattice of D2O@Beryl. <i>IFMBE Proceedings</i> , 2022 , 284-290	0.2	
91	Aqueous Cations and Excess of Translational Vibrations as the Evidences of Charge Transport in Biomaterials. <i>IFMBE Proceedings</i> , 2022 , 595-601	0.2	
90	Infrared fingerprints of water collective dynamics indicate proton transport in biological systems.. <i>Physical Review E</i> , 2022 , 105, 044409	2.4	
89	Grain-Size-Induced Collapse of Variable Range Hopping and Promotion of Ferromagnetism in Manganite La0.5Ca0.5MnO3. <i>Crystals</i> , 2022 , 12, 724	2.3	1
88	Distribution of D2O Molecules of First and Second Types in Hydrothermally Grown Beryl Crystals. <i>Crystal Growth and Design</i> , 2021 , 21, 2283-2291	3.5	3
87	Lead-substituted barium hexaferrite for tunable terahertz optoelectronics. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	2
86	Microwave response of interacting oxide two-dimensional electron systems. <i>Physical Review B</i> , 2020 , 102,	3.3	2
85	Incipient multiferroicity in Pnma fluoroperovskite NaMnF3. <i>Physical Review B</i> , 2020 , 101,	3.3	5
84	Aero-GaO Nanomaterial Electromagnetically Transparent from Microwaves to Terahertz for Internet of Things Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
83	Sub-lattice of Jahn-Teller centers in hexaferrite crystal. <i>Scientific Reports</i> , 2020 , 10, 7076	4.9	14
82	Dielectric ordering of water molecules arranged in a dipolar lattice. <i>Nature Communications</i> , 2020 , 11, 3927	17.4	12
81	Rotational coherence of encapsulated ortho and para water in fullerene-C revealed by time-domain terahertz spectroscopy. <i>Scientific Reports</i> , 2020 , 10, 18329	4.9	11
80	Localization of Small Impurities of Water and Carbon Dioxide in Channels of the Structure of Natural Cordierite. <i>Journal of Surface Investigation</i> , 2020 , 14, 718-721	0.5	0
79	Accurate Crystal Structure Refinement of Natrolite and Localization of Free Water. <i>Crystallography Reports</i> , 2020 , 65, 862-870	0.6	
78	Redox chemistry in the pigment eumelanin as a function of temperature using broadband dielectric spectroscopy.. <i>RSC Advances</i> , 2019 , 9, 3857-3867	3.7	12
77	Doping evolution of the gap structure and spin-fluctuation pairing in Ba(Fe1-xCox)2As2 superconductors. <i>Physical Review B</i> , 2019 , 99,	3.3	3
76	Boron 10B-11B Isotope Substitution as a Probe of the Mechanism Responsible for the Record Thermionic Emission in LaB6 with the Jahn-Teller Instability1. <i>JETP Letters</i> , 2019 , 110, 79-84	1.2	1

75	Terahertz shielding properties of aero-GaN. <i>Semiconductor Science and Technology</i> , 2019 , 34, 12LT02	1.8	8
74	Collective infrared excitation in rare-earth GdLa _{1-x} B ₆ hexaborides. <i>Physical Review B</i> , 2019 , 100,	3.3	4
73	Observation of dynamic charge stripes in TmYbB at the metal-insulator transition. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 065604	1.8	13
72	Collective Infrared Excitation in LuB ₁₂ Cage-Glass. <i>JETP Letters</i> , 2018 , 107, 100-105	1.2	9
71	Nature of Local Symmetry Violations of Ions in the Magnetic Subsystem of Magnetoplumbite Crystal, According to Raman Scattering Spectroscopy Data. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 266-268	0.4	
70	Temperature Behavior of the Rotational Order Parameters in a La _{0.25} Ca _{0.75} MnO ₃ Solid Solution. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 335-337	0.4	
69	Quantum Electric Dipole Lattice. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 799-815	2.2	4
68	Terahertz-infrared spectroscopy of <i>Shewanella oneidensis</i> MR-1 extracellular matrix. <i>Journal of Biological Physics</i> , 2018 , 44, 401-417	1.6	3
67	Quantum spin liquids unveil the genuine Mott state. <i>Nature Materials</i> , 2018 , 17, 773-777	27	36
66	Low-Energy Excitations in Quantum Spin Liquids Identified by Optical Spectroscopy. <i>Physical Review Letters</i> , 2018 , 121, 056402	7.4	9
65	Impedance spectroscopy of single bacterial nanofilament reveals water-mediated charge transfer. <i>PLoS ONE</i> , 2018 , 13, e0191289	3.7	7
64	Unique interplay between superconducting and ferromagnetic orders in EuRbFe ₄ As ₄ . <i>Physical Review B</i> , 2018 , 98,	3.3	15
63	Laser spectroscopy and dynamics of crystal lattices of chirally pure and racemic phases of amino acids. <i>Crystallography Reports</i> , 2017 , 62, 290-295	0.6	2
62	Vibrational states of nano-confined water molecules in beryl investigated by first-principles calculations and optical experiments. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30740-30748	3.6	11
61	Submillimeter ESR spectra of Fe ²⁺ ions in synthetic and natural beryl crystals. <i>Physics of the Solid State</i> , 2017 , 59, 1600-1606	0.8	1
60	Dielectric properties of semi-insulating Fe-doped InP in the terahertz spectral region. <i>Scientific Reports</i> , 2017 , 7, 7360	4.9	11
59	Observation of dielectric universalities in albumin, cytochrome C and <i>Shewanella oneidensis</i> MR-1 extracellular matrix. <i>Scientific Reports</i> , 2017 , 7, 15731	4.9	7
58	Terahertz spectroscopy of low-energy excitations in Eu _{0.42} Sr _{0.58} MnO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	1

57	Lattice modes of the chirally pure and racemic phases of tyrosine crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 124, 77-84	1	4
56	Bandlike electrical transport in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ manganites. <i>Physical Review B</i> , 2016 , 93,	3.3	3
55	Incipient ferroelectricity of water molecules confined to nano-channels of beryl. <i>Nature Communications</i> , 2016 , 7, 12842	17.4	48
54	Dispersion relations of hybrid waves in dielectric media. <i>Physics of Wave Phenomena</i> , 2016 , 24, 87-95	1.2	5
53	FTIR spectroscopy of D ₂ O and HDO molecules in the c-axis channels of synthetic beryl. <i>American Mineralogist</i> , 2016 , 101, 175-180	2.9	13
52	Effect of radiation defects on the magnetotransport properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x\text{As})_2$ high-temperature superconductor. <i>JETP Letters</i> , 2015 , 101, 247-250	1.2	3
51	Effect of nonmagnetic defects on superconducting and transport properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x\text{As})_2$ high- T_c superconductors. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 121, 853-859	1	
50	Observation of a Bulk Nodal-Gap in Overdoped $\text{Y}_{0.9}\text{Ca}_{0.1}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films. <i>Journal of Low Temperature Physics</i> , 2015 , 179, 108-112	1.3	1
49	Vibrational states of a water molecule in a nano-cavity of beryl crystal lattice. <i>Journal of Chemical Physics</i> , 2014 , 140, 224317	3.9	27
48	THzIR spectroscopy of single H ₂ O molecules confined in nanocage of beryl crystal lattice. <i>Phase Transitions</i> , 2014 , 87, 966-972	1.3	7
47	Quantum behaviour of water molecule in gemstone: terahertz fingerprints. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012019	0.3	3
46	Study of the structure of a superconducting state of Co-doped BaFe_2As_2 multiband compounds. <i>JETP Letters</i> , 2014 , 100, 328-335	1.2	
45	Terahertz-infrared spectra of the rare-earth scandate DyScO_3 single crystal. <i>Journal of Applied Physics</i> , 2013 , 114, 024102	2.5	13
44	Dynamic spectral response of solid solutions of the bismuth-strontium ferrite $\text{Bi}_{1-x}\text{Sr}_x\text{FeO}_3$ in the frequency range 0.3–0.0 THz. <i>Physics of the Solid State</i> , 2013 , 55, 1417-1430	0.8	2
43	Subterahertz electrodynamics of (TMTSF) ₂ X (X = ClO ₄ , PF ₆) salts. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 116, 460-466	1	1
42	Observation of an intersublattice exchange magnon in CoCr_2O_4 and analysis of magnetic ordering. <i>Physical Review B</i> , 2013 , 87,	3.3	23
41	Quantum Behavior of Water Molecules Confined to Nanocavities in Gemstones. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2015-20	6.4	40
40	Magnetic and dielectric response of cobalt-chromium spinel CoCr_2O_4 in the terahertz frequency range. <i>Physics of the Solid State</i> , 2012 , 54, 350-359	0.8	28

39	B-T phase diagram of CoCr ₂ O ₄ in magnetic fields up to 14 T. <i>Physical Review B</i> , 2012 , 85,	3.3	33
38	Ferroelectricity in spinel solid solution Co _{0.8} Ni _{0.2} Cr ₂ O ₄ . <i>Physical Review B</i> , 2012 , 85,	3.3	12
37	Theoretical analysis of two-gap superconductivity of magnesium diborades and iron pnictides in the generalized \mathbb{H} model. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 252-262	1	3
36	Observation of multiple superconducting gaps in the infrared reflectivity spectra of Ba(Fe _{0.9} Co _{0.1}) ₂ As ₂ . <i>JETP Letters</i> , 2012 , 94, 719-722	1.2	9
35	Nature of low-energy excitations in La _{1.87} Sr _{0.13} CuO ₄ superconducting cuprate. <i>JETP Letters</i> , 2012 , 94, 708-713	1.2	1
34	Two-band BCS mechanism of superconductivity in a Ba(Fe _{0.9} Co _{0.1}) ₂ As ₂ high-temperature superconductor. <i>JETP Letters</i> , 2011 , 93, 736-742	1.2	2
33	Polarization modes in the Ba ₂ Mg ₂ Fe ₁₂ O ₂₂ multiferroic. <i>Physics of the Solid State</i> , 2011 , 53, 736-744	0.8	4
32	Transmission spectra of epitaxial layers of Pb _{1-x} Eu _x Te (0 \leq x \leq 0.37) solid solutions in the frequency range 7000 cm ⁻¹ . <i>Physics of the Solid State</i> , 2011 , 53, 810-814	0.8	2
31	Terahertz spectroscopy of quantum phase transitions and the temperature-frequency scaling. <i>Physics of the Solid State</i> , 2011 , 53, 830-833	0.8	
30	Electronic specific heat of two-band layered superconductors: Analysis within the generalized two-band \mathbb{H} model. <i>Physical Review B</i> , 2011 , 84,	3.3	16
29	Nature of the low-energy excitations of a charge-ordered phase of La _{0.25} Ca _{0.75} MnO ₃ manganites. <i>JETP Letters</i> , 2010 , 91, 336-340	1.2	6
28	Absorption of terahertz radiation in Ge/Si(001) heterostructures with quantum dots. <i>JETP Letters</i> , 2010 , 92, 793-798	1.2	4
27	Frequency-domain magnetic-resonance spectroscopic investigations of the magnetization dynamics in Mn ₁₂ Ac single crystals. <i>Physical Review B</i> , 2009 , 79,	3.3	13
26	Localization of conduction electrons in the ferromagnetic clusters AuFe. <i>JETP Letters</i> , 2009 , 89, 466-470	1.2	1
25	Low-frequency dynamic response of the bismuth strontium ferrite (Bi,Sr)FeO _{3δ} . <i>Physics of the Solid State</i> , 2009 , 51, 498-502	0.8	4
24	IR spectroscopy of diamondlike silicon-carbon films. <i>Technical Physics</i> , 2008 , 53, 641-645	0.5	1
23	RKKY interaction and a pseudo-gap in terahertz conductivity spectra of the AuFe spin glass. <i>Physics of Metals and Metallography</i> , 2008 , 106, 247-252	1.2	
22	Methods of terahertz-subterahertz BWO spectroscopy of conducting materials. <i>Physics of the Solid State</i> , 2008 , 50, 2001-2012	0.8	28

21	Dielectric properties of nanometer-thick barium-strontium titanate films. <i>Technical Physics</i> , 2008 , 53, 1485-1489	0.5	6
20	Dispersion of dielectric constants in bismuth strontium ferrite (Bi,Sr)FeO ₃ & Variable-valence perovskite-structure solid solution. <i>Physics of the Solid State</i> , 2007 , 49, 1652-1657	0.8	4
19	Electrodynamic properties of nanoporous silicon in the range from terahertz to infrared frequencies. <i>Physics of the Solid State</i> , 2007 , 49, 2242-2250	0.8	0
18	Dynamics of the coherent ground state in intermediate-valent YbB ₁₂ . <i>Physical Review B</i> , 2006 , 73,	3.3	15
17	Terahertz spectroscopy of AuFe spin glasses. <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 887-896	1	6
16	Infrared spectroscopy of the intermediate-valence semiconductor YbB ₁₂ . <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 897-903	1	3
15	Infrared and submillimeter spectroscopy of grooved silicon structures. <i>Semiconductors</i> , 2006 , 40, 834-838.	0.7	1
14	Polar phonons and specific features of the ferroelectric states in cadmium titanate. <i>Physics of the Solid State</i> , 2005 , 47, 547	0.8	7
13	Kondo scattering and properties of TmSe in the infrared region. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 913-918	1	2
12	Terahertz BWO-Spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 1217-1240		128
11	Soft polar modes and phase states of Ca _{1-x} Pb _x TiO ₃ solid solutions. <i>Physics of the Solid State</i> , 2004 , 46, 927-941	0.8	10
10	BWO-Characterization of Materials and Devices at Frequencies 100-1000 GHz. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 631, 291		
9	Intragap states in SmB ₆ . <i>Physical Review B</i> , 2000 , 61, 9906-9909	3.3	57
8	Nature of the low-temperature anomalies in the physical properties of the intermediate-valent compound SmB ₆ . <i>Journal of Experimental and Theoretical Physics</i> , 1999 , 88, 533-537	1	25
7	Anomalous millimeter-wave absorption in the superconducting phase of La _{2-x} Sr _x CuO ₄ . <i>JETP Letters</i> , 1998 , 68, 432-436	1.2	6
6	High-Frequency Dielectric Spectroscopy of Glass-Forming Liquids. <i>ACS Symposium Series</i> , 1997 , 168-180	0.4	9
5	Evidence of charge-density-wave fluctuations in the low frequency optical conductivity of K _{0.3} MoO ₃ and (TaSe ₄) ₂ I. <i>Ferroelectrics</i> , 1996 , 176, 309-319	0.6	
4	Resonant techniques for studying the complex electrodynamic response of conducting solids in the millimeter and submillimeter wave spectral range. <i>Review of Scientific Instruments</i> , 1995 , 66, 2943-2953	1.7	28

3	Dynamical studies of fully deuterated BCCD. <i>Ferroelectrics</i> , 1994 , 159, 97-102	0.6	8
2	Far-infrared dielectric response of Rb0.75(ND4)0.25D2PO4. <i>Ferroelectrics</i> , 1994 , 157, 227-232	0.6	5
1	Subterahertz BWO spectroscopy: methods and devices		1