

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5522661/b-p-gorshunov-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	Terahertz BWO-Spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 1217-1240		128
91	Intragap states in SmB ₆ . <i>Physical Review B</i> , 2000 , 61, 9906-9909	3.3	57
90	Incipient ferroelectricity of water molecules confined to nano-channels of beryl. <i>Nature Communications</i> , 2016 , 7, 12842	17.4	48
89	Quantum Behavior of Water Molecules Confined to Nanocavities in Gemstones. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2015-20	6.4	40
88	Quantum spin liquids unveil the genuine Mott state. <i>Nature Materials</i> , 2018 , 17, 773-777	27	36
87	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
86	Magnetic and dielectric response of cobalt-chromium spinel CoCr ₂ O ₄ in the terahertz frequency range. <i>Physics of the Solid State</i> , 2012 , 54, 350-359	0.8	28
85	Methods of terahertz-subterahertz BWO spectroscopy of conducting materials. <i>Physics of the Solid State</i> , 2008 , 50, 2001-2012	0.8	28
84	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
83	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
82	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
81	Observation of an intersublattice exchange magnon in CoCr ₂ O ₄ and analysis of magnetic ordering. <i>Physical Review B</i> , 2013 , 87,	3.3	23
80	Electronic specific heat of two-band layered superconductors: Analysis within the generalized two-band model. <i>Physical Review B</i> , 2011 , 84,	3.3	16
79	Dynamics of the coherent ground state in intermediate-valent YbB ₁₂ . <i>Physical Review B</i> , 2006 , 73,	3.3	15
78	Unique interplay between superconducting and ferromagnetic orders in EuRbFe ₄ As ₄ . <i>Physical Review B</i> , 2018 , 98,	3.3	15
77	Sub-lattice of Jahn-Teller centers in hexaferrite crystal. <i>Scientific Reports</i> , 2020 , 10, 7076	4.9	14
76	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

75	Terahertz-infrared spectra of the rare-earth scandate DyScO ₃ single crystal. <i>Journal of Applied Physics</i> , 2013 , 114, 024102	2.5	13
74	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
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	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
71	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
70	Dielectric ordering of water molecules arranged in a dipolar lattice. <i>Nature Communications</i> , 2020 , 11, 3927	17.4	12
69	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
68	Dielectric properties of semi-insulating Fe-doped InP in the terahertz spectral region. <i>Scientific Reports</i> , 2017 , 7, 7360	4.9	11
67	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
66	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
65	Collective Infrared Excitation in LuB ₁₂ Cage-Glass. <i>JETP Letters</i> , 2018 , 107, 100-105	1.2	9
64	Low-Energy Excitations in Quantum Spin Liquids Identified by Optical Spectroscopy. <i>Physical Review Letters</i> , 2018 , 121, 056402	7.4	9
63	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
62	High-Frequency Dielectric Spectroscopy of Glass-Forming Liquids. <i>ACS Symposium Series</i> , 1997 , 168-180	0.4	9
61	Terahertz shielding properties of aero-GaN. <i>Semiconductor Science and Technology</i> , 2019 , 34, 12LT02	1.8	8
60	Dynamical studies of fully deuterated BCCD. <i>Ferroelectrics</i> , 1994 , 159, 97-102	0.6	8
59	Impedance spectroscopy of single bacterial nanofilament reveals water-mediated charge transfer. <i>PLoS ONE</i> , 2018 , 13, e0191289	3.7	7
58	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

57	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
56	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
55	Aero-GaO Nanomaterial Electromagnetically Transparent from Microwaves to Terahertz for Internet of Things Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
54	Nature of the low-energy excitations of a charge-ordered phase of $\text{La}_{0.25}\text{Ca}_{0.75}\text{MnO}_3$ manganites. <i>JETP Letters</i> , 2010 , 91, 336-340	1.2	6
53	Anomalous millimeter-wave absorption in the superconducting phase of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>JETP Letters</i> , 1998 , 68, 432-436	1.2	6
52	Dielectric properties of nanometer-thick barium-strontium titanate films. <i>Technical Physics</i> , 2008 , 53, 1485-1489	0.5	6
51	Terahertz spectroscopy of AuFe spin glasses. <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 887-896	1	6
50	Incipient multiferroicity in Pnma fluoroperovskite NaMnF_3 . <i>Physical Review B</i> , 2020 , 101,	3.3	5
49	Dispersion relations of hybrid waves in dielectric media. <i>Physics of Wave Phenomena</i> , 2016 , 24, 87-95	1.2	5
48	Far-infrared dielectric response of $\text{Rb}_{0.75}(\text{ND}_4)_{0.25}\text{D}_2\text{PO}_4$. <i>Ferroelectrics</i> , 1994 , 157, 227-232	0.6	5
47	Quantum Electric Dipole Lattice. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 799-815	2.2	4
46	Collective infrared excitation in rare-earth $\text{Gd}_x\text{La}_{1-x}\text{B}_6$ hexaborides. <i>Physical Review B</i> , 2019 , 100,	3.3	4
45	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
44	Polarization modes in the $\text{Ba}_2\text{Mg}_2\text{Fe}_{12}\text{O}_{22}$ multiferroic. <i>Physics of the Solid State</i> , 2011 , 53, 736-744	0.8	4
43	Absorption of terahertz radiation in $\text{Ge/Si}(001)$ heterostructures with quantum dots. <i>JETP Letters</i> , 2010 , 92, 793-798	1.2	4
42	Low-frequency dynamic response of the bismuth strontium ferrite $(\text{Bi,Sr})\text{FeO}_3$. <i>Physics of the Solid State</i> , 2009 , 51, 498-502	0.8	4
41	Dispersion of dielectric constants in bismuth strontium ferrite $(\text{Bi,Sr})\text{FeO}_3$ & Variable-valence perovskite-structure solid solution. <i>Physics of the Solid State</i> , 2007 , 49, 1652-1657	0.8	4
40	Doping evolution of the gap structure and spin-fluctuation pairing in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ superconductors. <i>Physical Review B</i> , 2019 , 99,	3.3	3

39	Effect of radiation defects on the magnetotransport properties of Ba(Fe _{1-x} Co _x As) ₂ high-temperature superconductor. <i>JETP Letters</i> , 2015 , 101, 247-250	1.2	3
38	Terahertz-infrared spectroscopy of Shewanella oneidensis MR-1 extracellular matrix. <i>Journal of Biological Physics</i> , 2018 , 44, 401-417	1.6	3
37	Bandlike electrical transport in Pr _{1-x} Ca _x MnO ₃ manganites. <i>Physical Review B</i> , 2016 , 93,	3.3	3
36	Quantum behaviour of water molecule in gemstone: terahertz fingerprints. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012019	0.3	3
35	Theoretical analysis of two-gap superconductivity of magnesium diborades and iron pnictides in the generalized \mathbf{t} -model. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 252-262	1	3
34	Infrared spectroscopy of the intermediate-valence semiconductor YbB ₁₂ . <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 897-903	1	3
33	Distribution of D ₂ O Molecules of First and Second Types in Hydrothermally Grown Beryl Crystals. <i>Crystal Growth and Design</i> , 2021 , 21, 2283-2291	3.5	3
32	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
31	Microwave response of interacting oxide two-dimensional electron systems. <i>Physical Review B</i> , 2020 , 102,	3.3	2
30	Dynamic spectral response of solid solutions of the bismuth-strontium ferrite Bi _{1-x} Sr _x FeO ₃ in the frequency range 0.3-100 THz. <i>Physics of the Solid State</i> , 2013 , 55, 1417-1430	0.8	2
29	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
28	Transmission spectra of epitaxial layers of Pb _{1-x} Eu _x Te (0 ≤ x ≤ 0.37) solid solutions in the frequency range 7-1000 cm ⁻¹ . <i>Physics of the Solid State</i> , 2011 , 53, 810-814	0.8	2
27	Kondo scattering and properties of TmSe in the infrared region. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 101, 913-918	1	2
26	Lead-substituted barium hexaferrite for tunable terahertz optoelectronics. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	2
25	Boron ¹⁰ B/ ¹¹ B Isotope Substitution as a Probe of the Mechanism Responsible for the Record Thermionic Emission in LaB ₆ with the Jahn-Teller Instability. <i>JETP Letters</i> , 2019 , 110, 79-84	1.2	1
24	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
23	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
22	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

21	Observation of a Bulk Nodal-Gap in Overdoped $Y_{0.9}Ca_{0.1}Ba_2Cu_3O_{7-\delta}$ Thin Films. <i>Journal of Low Temperature Physics</i> , 2015 , 179, 108-112	1.3	1
20	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
19	Localization of conduction electrons in the ferromagnetic clusters AuFe. <i>JETP Letters</i> , 2009 , 89, 466-470	1.2	1
18	IR spectroscopy of diamondlike silicon-carbon films. <i>Technical Physics</i> , 2008 , 53, 641-645	0.5	1
17	Infrared and submillimeter spectroscopy of grooved silicon structures. <i>Semiconductors</i> , 2006 , 40, 834-838	0.7	1
16	Subterahertz BWO spectroscopy: methods and devices		1
15	Grain-Size-Induced Collapse of Variable Range Hopping and Promotion of Ferromagnetism in Manganite $La_{0.5}Ca_{0.5}MnO_3$. <i>Crystals</i> , 2022 , 12, 724	2.3	1
14	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
13	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
12	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	
11	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	
10	Effect of nonmagnetic defects on superconducting and transport properties of $Ba(Fe_{1-x}Co_xAs)_2$ high- T_c superconductors. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 121, 853-859	1	
9	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	
8	Terahertz spectroscopy of quantum phase transitions and the temperature-frequency scaling. <i>Physics of the Solid State</i> , 2011 , 53, 830-833	0.8	
7	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	
6	BWO-Characterization of Materials and Devices at Frequencies 100-1000 GHz. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 631, 291		
5	Evidence of charge-density-wave fluctuations in the low frequency optical conductivity of $K_{0.3}MoO_3$ and $(TaSe_4)_2I$. <i>Ferroelectrics</i> , 1996 , 176, 309-319	0.6	
4	New Ground State of Dipolar Lattice of $D_2O@Beryl$. <i>IFMBE Proceedings</i> , 2022 , 284-290	0.2	

- | | | |
|---|---|-----|
| 3 | Aqueous Cations and Excess of Translational Vibrations as the Evidences of Charge Transport in Biomaterials. <i>IFMBE Proceedings</i> , 2022 , 595-601 | 0.2 |
| 2 | Accurate Crystal Structure Refinement of Natrolite and Localization of Free Water. <i>Crystallography Reports</i> , 2020 , 65, 862-870 | 0.6 |
| 1 | Infrared fingerprints of water collective dynamics indicate proton transport in biological systems.. <i>Physical Review E</i> , 2022 , 105, 044409 | 2.4 |