Yury Basalaev

List of Publications by Year
in descending order

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51 papers	256 citations	1163117 8 h-index	1125743 13 g-index
51 all docs	51 docs citations	51 times ranked	137 citing authors

#	Article	IF	Citations
1	Lattice dynamics of chalcopyrite semiconductors LiAlTe₂, LiGaTe₂ and LiInTe₂. Physica Status Solidi (B): Basic Research, 2009, 246, 364-371.	1.5	46
2	Energy band genesis from sublattice states in MgSiN2 and MgGeN2 crystals. Journal of Structural Chemistry, 2010, 51, 1191-1194.	1.0	14
3	Energy Band Structure of Beâ€"(C, Si, Ge, Sn)â€"N2 Crystals. Russian Physics Journal, 2017, 60, 900-907.	0.4	12
4	Chemical bonding in isostructural Li-containing ternary chalcogenides. Journal of Structural Chemistry, 2007, 48, 1001-1005.	1.0	11
5	Role of sublattices in the formation of the chemical bond in ion-covalent crystals. Journal of Structural Chemistry, 2009, 50, 1177-1180.	1.0	11
6	Electronic Structure of Alkali Metal Oxides and Sulfides. Russian Physics Journal, 2001, 44, 398-403.	0.4	10
7	New Diamond-Like Compounds with Anti-chalcopyrite Structure. Russian Physics Journal, 2014, 57, 558-560.	0.4	10
8	Electronic Structure of Triple Phosphides MgSiP2, ZnSiP2, and CdSiP2. Russian Physics Journal, 2005, 48, 78-83.	0.4	9
9	A First-Principles Simulation of Electronic Structure of MCN2 Crystals (M = Be, Mg, Ca, Zn, Cd, Hg). Journal of Structural Chemistry, 2020, 61, 337-343.	1.0	9
10	Electronic and Vibrational Properties of LiBO2 Crystals. Russian Physics Journal, 2019, 61, 1868-1875.	0.4	8
11	SIMULATION OF ELECTRONIC STRUCTURES OF Hgâ€"IVâ€"V2 COMPOUNDS. Journal of Structural Chemistry, 2020, 61, 1007-1016.	1.0	8
12	Electron structure of hypothetical IVâ€"IVâ€"IV2-type crystals having a chalcopyrite-type lattice. Russian Physics Journal, 2009, 52, 992-994.	0.4	7
13	Zone structure and its genesis from the states of sublattices in orthorhombic MgGeN2. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2011, 66, 39-44.	0.4	6
14	Sublattice effect on the formation of the band structure of crystals with the chalcopyrite lattice: B2CN, BC2N, BCN2. Journal of Structural Chemistry, 2016, 57, 8-13.	1.0	6
15	Ab initio and phenomenological simulation of the phonon spectra BeMN2 (M = C, Si, Ge, Sn) crystals. Journal of Structural Chemistry, 2017, 58, 1588-1596.	1.0	6
16	Electron Structure of Beâ€"IVâ€"P2 Crystals with a Chalcopyrite Lattice. Physics of the Solid State, 2020, 62, 2016-2023.	0.6	6
17	LiPN2 and NaPN2 crystals: Structural features and chemical bonding. Journal of Structural Chemistry, 2007, 48, 996-1000.	1.0	5
18	Ab Initio and Phenomenological Modeling of the Phonon Spectrum of Superhard cp-BC2N. Russian Physics Journal, 2015, 58, 978-986.	0.4	5

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19	Ab initio study of the electronic and vibrational structures of tetragonal cadmium diarsenide. Semiconductors, 2017, 51, 783-788.	0.5	5
20	An Ab Initio Study of Electronic Structure of Lithium Metaborate. Journal of Structural Chemistry, 2018, 59, 1501-1506.	1.0	5
21	Special features of the electronic structure of Ga2AsSb crystals. Russian Physics Journal, 2011, 53, 1216-1218.	0.4	4
22	Electronic structure of the CuBS2 crystal. Physics of the Solid State, 2012, 54, 1764-1767.	0.6	4
23	Influence of the sublattice symmetry on the band structure of a MgSiN2 crystal. Russian Physics Journal, 2012, 54, 1145-1151.	0.4	4
24	Role of sublattices in the formation of the electronic structure and chemical bonding in a Zn2SiO4 crystal with a defect chalcopyrite lattice. Journal of Structural Chemistry, 2012, 53, 35-38.	1.0	4
25	Electron Density Calculations for Crystals with a NaCl Lattice. Journal of Structural Chemistry, 2001, 42, 172-176.	1.0	3
26	The genesis of energy bands formed by sublattice states in alkaline-earth metal oxides and sulfides. Physics of the Solid State, 2004, 46, 848-852.	0.6	3
27	Optical Properties of ZnGeP[sub 2] in the UV Spectral Region. Semiconductors, 2005, 39, 1004.	0.5	3
28	Features of the band structure of (CuInSe2)1 â^' x (MeSe) x alloys (Me = Mn, Fe). Semiconductors, 2014, 48, 417-422.	0.5	3
29	Electronic structure of single-layer superlattices (GeC)1(SiC)1, (SnC)1(SiC)1, and (SnC)1(GeC)1. Semiconductors, 2017, 51, 617-620.	0.5	3
30	ELECTRONIC STRUCTURE OF PNICTIDES HgCX2. Journal of Structural Chemistry, 2020, 61, 1839-1844.	1.0	3
31	Specific features of electronic and vibrational properties of I-V-V2 crystals. Semiconductors, 2009, 43, 735-739.	0.5	2
32	Modeling of Electronic Structure of Cu2BrCl Crystals with Chalcopyrite Lattice. Russian Physics Journal, 2015, 58, 1201-1204.	0.4	2
33	Electronic structure and lattice dynamics of the Î±-Zncl2 crystal. Journal of Structural Chemistry, 2015, 56, 823-828.	1.0	2
34	Electronic Structure and Elastic Properties of ZnCdSe2 Crystal with the Chalcopyrite Structure. Journal of Structural Chemistry, 2018, 59, 15-19.	1.0	2
35	Ab Initio Study of the ZnSnSb2 Semiconductor. Semiconductors, 2018, 52, 1715-1720.	0.5	2
36	Crystalline, Electronic, and Vibrational Structures of Zinc Cyanides. Journal of Structural Chemistry, 2018, 59, 1761-1767.	1.0	2

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37	Electronic Structure of CO2 and CS2 Crystals. Journal of Structural Chemistry, 2019, 60, 1019-1026.	1.0	2
38	Modeling of Hypothetical BeXAs2 (X = Si, Ge, Sn) Crystal Structure and Phonon Spectra. Russian Physics Journal, 2019, 61, 1978-1984.	0.4	2
39	Features of the valence electron charge distribution in LiBIIXV crystals. Journal of Structural Chemistry, 2015, 56, 1036-1042.	1.0	1
40	Modeling of half-Heusler crystals with the chalcopyrite structure: Li2MgZnX 2 (X = N, P, As, Sb). Journal of Structural Chemistry, 2016, 57, 1499-1504.	1.0	1
41	Modeling of Electronic Structure of a Monolayer Superlattice SiC/GeC. Russian Physics Journal, 2016, 59, 1111-1114.	0.4	1
42	Electronic, Vibrational, and Elastic Properties of Zn2SeTe Crystals with Antihalcopirite Structure. Russian Physics Journal, 2018, 61, 1425-1428.	0.4	1
43	Simulation of the Crystal Structure of GelSimCn Compounds and the Study of Their Electronic Structure. Journal of Structural Chemistry, 2019, 60, 518-523.	1.0	1
44	WANNIER FUNCTIONS AND CHEMICAL BONDING IN COMPOUNDS Beâ€“IVâ€“P2 (IVÂ=ÂC, Si, Ge, Sn) WITH CHALCOPYRITE STRUCTURE. Journal of Structural Chemistry, 2021, 62, 817-823.	1.0	1
45	The electronic structure and chemical bonding in MgPbP 2. Physica Status Solidi (B): Basic Research, 0, , .	1.5	1
46	Bond charges and structural features in A2B4C 2 5 crystals. Journal of Structural Chemistry, 1992, 32, 534-537.	1.0	0
47	Structure effects in the electronic energy spectrum of sodium nitrate. Journal of Structural Chemistry, 1996, 37, 508-510.	1.0	0
48	Title is missing!. Theoretical and Experimental Chemistry, 2003, 39, 81-84.	0.8	0
49	Optical functions of ternary Li-containing tellurides. Russian Physics Journal, 2007, 50, 1232-1236.	0.4	0
50	ELECTRONIC AND VIBRATIONAL STRUCTURES OF BeCâ€“V2 PNICTIDES. Journal of Structural Chemistry, 2021, 62, 985-994.	1.0	0
51	BAND STRUCTURE OF BePbâ€“V2 PNICTIDES: AB INITIO CALCULATIONS. Journal of Structural Chemistry, 2022, 63, 588-592.	1.0	0