Dmitry V Korabel'nikov

List of Publications by Year
in descending order

21	174	1162889 8	1125617 13
papers	citations	h-index	g-index

21	21	21	113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ab initio investigations of the elastic properties of chlorates and perchlorates. Physics of the Solid State, 2016, 58, 1166-1171.	0.2	29
2	The nature of the chemical bond in oxyanionic crystals based on QTAIM topological analysis of electron densities. RSC Advances, 2019, 9, 12020-12033.	1.7	21
3	Effect of pressure on the structure and the electronic properties of LiClO4, NaClO4, KClO4, and NH4ClO4. Physics of the Solid State, 2017, 59, 254-261.	0.2	16
4	Theoretical study of the thermodynamic properties of lithium, sodium, and potassium nitrates. Physics of the Solid State, 2013, 55, 1765-1772.	0.2	15
5	Structure and electronic properties of MNO3 (M: Li, Na, K, NH4) under pressure: DFT-D study. Journal of Physics and Chemistry of Solids, 2015, 87, 38-47.	1.9	14
6	Positive and negative linear compressibility and electronic properties of energetic and porous hybrid crystals with nitrate anions. Physical Chemistry Chemical Physics, 2016, 18, 33126-33133.	1.3	10
7	Structural, elastic, electronic and vibrational properties of a series of sulfates from first principles calculations. Journal of Physics and Chemistry of Solids, 2018, 119, 114-121.	1.9	10
8	Compressibility Anisotropy and Electronic Properties of Oxyanionic Hydrates. Journal of Physical Chemistry A, 2017, 121, 6481-6490.	1.1	9
9	Semi-empirical andab initiocalculations for crystals under pressure at fixed temperatures: the case of guanidinium perchlorate. RSC Advances, 2020, 10, 42204-42211.	1.7	8
10	Structure and electronic properties of oxyanionic crystal surfaces. Journal of Surface Investigation, 2013, 7, 1067-1071.	0.1	7
11	Structure and electronic properties of the surface of alkali metal peroxides. Journal of Structural Chemistry, 2012, 53, 639-644.	0.3	5
12	Physicochemical properties of l- and dl-valine: first-principles calculations. Amino Acids, 2020, 52, 425-433.	1.2	5
13	Research of cation dependences of structural and elastic properties of metal carbonates series by density functional theory calculations. Materials Today Communications, 2021, 28, 102509.	0.9	5
14	Compressibility and Electronic Properties of Metal Cyanides. Physics of the Solid State, 2021, 63, 1021-1027.	0.2	5
15	First-principle studies of the pressure effect on metal carbonates elastic properties. Solid State Communications, 2022, 346, 114706.	0.9	4
16	Elastic and Photoelastic Properties of M(NO3)2, MO (M = Mg, Ca, Sr, Ba). Russian Physics Journal, 2017, 60, 149-156.	0.2	3
17	First-Principles Study of the Elastic Properties of Nitrates. Russian Physics Journal, 2017, 59, 2122-2129.	0.2	3
18	Structure and electronic properties of Na2O2/NaClO4(001), K2O/KClO3(001) systems. Journal of Structural Chemistry, 2015, 56, 203-208.	0.3	2

#	Article	IF	Citations
19	Structure and electronic properties of 3,3â€²-diamino-4,4â€²-azo-1,2,4-triazole nitrate and perchlorate. Journal of Structural Chemistry, 2016, 57, 446-453.	0.3	2
20	A first-principles investigation of surface oxidation of lithium in the slab model. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 337-340.	0.3	1
21	The Effect of Pressure on the Structure and Electronic Properties of Hydrated Calcium Carbonates. Izvestiya of Altai State University, 2020, , 33-38.	0.1	0