

Dmitry V Korabel'nikov

List of Publications by Year in descending order

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21
papers

174
citations

1163117

8
h-index

1125743

13
g-index

21
all docs

21
docs citations

21
times ranked

113
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab initio investigations of the elastic properties of chlorates and perchlorates. <i>Physics of the Solid State</i> , 2016, 58, 1166-1171.	0.6	29
2	The nature of the chemical bond in oxyanionic crystals based on QTAIM topological analysis of electron densities. <i>RSC Advances</i> , 2019, 9, 12020-12033.	3.6	21
3	Effect of pressure on the structure and the electronic properties of LiClO ₄ , NaClO ₄ , KClO ₄ , and NH ₄ ClO ₄ . <i>Physics of the Solid State</i> , 2017, 59, 254-261.	0.6	16
4	Theoretical study of the thermodynamic properties of lithium, sodium, and potassium nitrates. <i>Physics of the Solid State</i> , 2013, 55, 1765-1772.	0.6	15
5	Structure and electronic properties of MNO ₃ (M: Li, Na, K, NH ₄) under pressure: DFT-D study. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 87, 38-47.	4.0	14
6	Positive and negative linear compressibility and electronic properties of energetic and porous hybrid crystals with nitrate anions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33126-33133.	2.8	10
7	Structural, elastic, electronic and vibrational properties of a series of sulfates from first principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 119, 114-121.	4.0	10
8	Compressibility Anisotropy and Electronic Properties of Oxyanionic Hydrates. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6481-6490.	2.5	9
9	Semi-empirical and <i>ab initio</i> calculations for crystals under pressure at fixed temperatures: the case of guanidinium perchlorate. <i>RSC Advances</i> , 2020, 10, 42204-42211.	3.6	8
10	Structure and electronic properties of oxyanionic crystal surfaces. <i>Journal of Surface Investigation</i> , 2013, 7, 1067-1071.	0.5	7
11	Structure and electronic properties of the surface of alkali metal peroxides. <i>Journal of Structural Chemistry</i> , 2012, 53, 639-644.	1.0	5
12	Physicochemical properties of l- and dl-valine: first-principles calculations. <i>Amino Acids</i> , 2020, 52, 425-433.	2.7	5
13	Research of cation dependences of structural and elastic properties of metal carbonates series by density functional theory calculations. <i>Materials Today Communications</i> , 2021, 28, 102509.	1.9	5
14	Compressibility and Electronic Properties of Metal Cyanides. <i>Physics of the Solid State</i> , 2021, 63, 1021-1027.	0.6	5
15	First-principle studies of the pressure effect on metal carbonates elastic properties. <i>Solid State Communications</i> , 2022, 346, 114706.	1.9	4
16	Elastic and Photoelastic Properties of M(NO ₃) ₂ , MO (M = Mg, Ca, Sr, Ba). <i>Russian Physics Journal</i> , 2017, 60, 149-156.	0.4	3
17	First-Principles Study of the Elastic Properties of Nitrates. <i>Russian Physics Journal</i> , 2017, 59, 2122-2129.	0.4	3
18	Structure and electronic properties of Na ₂ O ₂ /NaClO ₄ (001), K ₂ O/KClO ₃ (001) systems. <i>Journal of Structural Chemistry</i> , 2015, 56, 203-208.	1.0	2

#	ARTICLE	IF	CITATIONS
19	Structure and electronic properties of 3,3'-diamino-4,4'-azo-1,2,4-triazole nitrate and perchlorate. Journal of Structural Chemistry, 2016, 57, 446-453.	1.0	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.	1.1	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