Natalia A Kabanova

List of Publications by Year
in descending order

22	522	840119 11	713013 21
papers	citations	h-index	g-index

22	22	22	468
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of local heteropolyhedral substitutions in the stoichiometry, topological characteristics and ion-migration paths in the eudialyte-related structures: a quantitative analysis. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 80-90.	0.5	8
2	THEORETICAL ANALYSIS OF CATION- MIGRATION PATHS IN MICROPOROUS HETEROPHYLLOSILICATES WITH ASTROPHYLLITE AND VEBLENITE TYPE STRUCTURES. Journal of Structural Chemistry, 2022, 63, 293-301.	0.3	1
3	Ion-Exchange-Induced Transformation and Mechanism of Cooperative Crystal Chemical Adaptation in Sitinakite: Theoretical and Experimental Study. Minerals (Basel, Switzerland), 2022, 12, 248.	0.8	4
4	Mechanism of Conductivity in the Rare Earth Layered Ln₂MoO₆ (Ln = La, Pr,) Tj ETQq0 0 0 rgBT /Overlock 10 T 2022, 126, 9623-9633.	1.5	7
5	Topological Features of the Alluaudite-Type Framework and Its Derivatives: Synthesis and Crystal Structure of NaMnNi2(H2/3PO4)3. Crystals, 2021, 11, 237.	1.0	4
6	Crystal structure of NaFeO2 and NaAlO2 and their correlation with ionic conductivity. Ionics, 2020, 26, 2917-2926.	1.2	8
7	The Na2â^'nHn[Zr(Si2O7)]â^™mH2O Minerals and Related Compounds (n = 0â€“0.5; m = 0.1): Structure Refinement, Framework Topology, and Possible Na+-Ion Migration Paths. Crystals, 2020, 10, 1016.	1.0	6
8	Empirical Electronic Polarizabilities: Deviations from the Additivity Rule. II. Structures Exhibiting Ion Conductivity. Crystal Research and Technology, 2019, 54, 1900037.	0.6	6
9	Ab initio modeling of oxygen ion migration in non-stoichiometric bismuth titanate pyrochlore Bi1.5Ti2O6.25. Solid State Ionics, 2019, 335, 135-141.	1.3	12
10	Crystallochemical tools in the search for cathode materials of rechargeable Na-ion batteries and analysis of their transport properties. Solid State Ionics, 2018, 314, 129-140.	1.3	51
11	High-throughput search for potential potassium ion conductors: A combination of geometrical-topological and density functional theory approaches. Solid State Ionics, 2018, 326, 188-199.	1.3	37
12	Crystal Structure and Li-Ion Transport in Li₂CoPO₄F High-Voltage Cathode Material for Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 3194-3202.	1.5	37
13	Ionic Conductivity in Ti-Doped KFeO₂: Experiment and Mathematical Modeling. Journal of Physical Chemistry C, 2017, 121, 21128-21135.	1.5	16
14	Crystallochemical analysis of ion conductivity in K+-oxygen containing inorganic compounds. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s292-s293.	0.0	0
15	On the Way to New Possible Naâ€Ion Conductors: The Voronoiâ€“Dirichlet Approach, Data Mining and Symmetry Considerations in Ternary Na Oxides. Chemistry - A European Journal, 2015, 21, 16601-16608.	1.7	37
16	Conduction mechanism in the low-temperature phase of KAlO2. Inorganic Materials, 2010, 46, 1234-1241.	0.2	18
17	Natural Tilings for Zeolite-Type Frameworks. Journal of Physical Chemistry C, 2010, 114, 10160-10170.	1.5	82
18	Analysis of ion-migration paths in inorganic frameworks by means of tilings and Voronoiâ€“Dirichlet partition: a comparison. Acta Crystallographica Section B: Structural Science, 2009, 65, 426-434.	1.8	32

#	Article	IF	Citations
19	Analysis of Li+ cation migration paths in oxygen-containing compounds. Russian Journal of Electrochemistry, 2009, 45, 417-428.	0.3	7
20	Migration maps of Li+ cations in oxygen-containing compounds. Solid State Ionics, 2008, 179, 2248-2254.	1.3	79
21	An analysis of migration paths of Li+ cations in ternary oxygen-containing compounds Li p X q O r. Crystallography Reports, 2008, 53, 930-936.	0.1	2
22	Analysis of migration paths in fast-ion conductors with Voronoiâ€“Dirichlet partition. Acta Crystallographica Section B: Structural Science, 2006, 62, 1010-1018.	1.8	68