

# Natalia A Kabanova

## List of Publications by Year in descending order

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22  
papers

522  
citations

840119

11  
h-index

713013

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

468  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Tilings for Zeolite-Type Frameworks. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10160-10170.	1.5	82
2	Migration maps of Li <sup>+</sup> cations in oxygen-containing compounds. <i>Solid State Ionics</i> , 2008, 179, 2248-2254.	1.3	79
3	Analysis of migration paths in fast-ion conductors with Voronoi–Dirichlet partition. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 1010-1018.	1.8	68
4	Crystallochemical tools in the search for cathode materials of rechargeable Na-ion batteries and analysis of their transport properties. <i>Solid State Ionics</i> , 2018, 314, 129-140.	1.3	51
5	On the Way to New Possible Na <sup>+</sup> Ion Conductors: The Voronoi–Dirichlet Approach, Data Mining and Symmetry Considerations in Ternary Na Oxides. <i>Chemistry - A European Journal</i> , 2015, 21, 16601-16608.	1.7	37
6	Crystal Structure and Li-Ion Transport in Li <sub>2</sub> CoPO <sub>4</sub> F High-Voltage Cathode Material for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3194-3202.	1.5	37
7	High-throughput search for potential potassium ion conductors: A combination of geometrical-topological and density functional theory approaches. <i>Solid State Ionics</i> , 2018, 326, 188-199.	1.3	37
8	Analysis of ion-migration paths in inorganic frameworks by means of tilings and Voronoi–Dirichlet partition: a comparison. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 426-434.	1.8	32
9	Conduction mechanism in the low-temperature phase of KAlO <sub>2</sub> . <i>Inorganic Materials</i> , 2010, 46, 1234-1241.	0.2	18
10	Ionic Conductivity in Ti-Doped KFeO <sub>2</sub> : Experiment and Mathematical Modeling. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21128-21135.	1.5	16
11	Ab initio modeling of oxygen ion migration in non-stoichiometric bismuth titanate pyrochlore Bi <sub>1.5</sub> Ti <sub>2</sub> O <sub>6.25</sub> . <i>Solid State Ionics</i> , 2019, 335, 135-141.	1.3	12
12	Crystal structure of NaFeO <sub>2</sub> and NaAlO <sub>2</sub> and their correlation with ionic conductivity. <i>Ionics</i> , 2020, 26, 2917-2926.	1.2	8
13	The role of local heteropolyhedral substitutions in the stoichiometry, topological characteristics and ion-migration paths in the eudialyte-related structures: a quantitative analysis. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2022, 78, 80-90.	0.5	8
14	Analysis of Li <sup>+</sup> cation migration paths in oxygen-containing compounds. <i>Russian Journal of Electrochemistry</i> , 2009, 45, 417-428.	0.3	7
15	Mechanism of Conductivity in the Rare Earth Layered Ln <sub>2</sub> MoO <sub>6</sub> (Ln = La, Pr.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> 2022, 126, 9623-9633.	1.5	7
16	Empirical Electronic Polarizabilities: Deviations from the Additivity Rule. II. Structures Exhibiting Ion Conductivity. <i>Crystal Research and Technology</i> , 2019, 54, 1900037.	0.6	6
17	The Na <sub>2</sub> <sup>n</sup> Hn[Zr(Si <sub>2</sub> O <sub>7</sub> ) <sub>m</sub> H <sub>2</sub> O] Minerals and Related Compounds (n = 0–0.5; m = 0.1): Structure Refinement, Framework Topology, and Possible Na <sup>+</sup> -Ion Migration Paths. <i>Crystals</i> , 2020, 10, 1016.	1.0	6
18	Topological Features of the Alluaudite-Type Framework and Its Derivatives: Synthesis and Crystal Structure of NaMnNi <sub>2</sub> (H <sub>2</sub> /3PO <sub>4</sub> ) <sub>3</sub> . <i>Crystals</i> , 2021, 11, 237.	1.0	4

#	ARTICLE	IF	CITATIONS
19	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
20	An analysis of migration paths of Li <sup>+</sup> cations in ternary oxygen-containing compounds Li <sub>p</sub> X <sub>q</sub> O <sub>r</sub> . Crystallography Reports, 2008, 53, 930-936.	0.1	2
21	THEORETICAL ANALYSIS OF CATION- MIGRATION PATHS IN MICROPOROUS HETEROPHYLLOSILICATES WITH ASTROPHYLLITE AND VELENITE TYPE STRUCTURES. Journal of Structural Chemistry, 2022, 63, 293-301.	0.3	1
22	Crystallochemical analysis of ion conductivity in K <sup>+</sup> -oxygen containing inorganic compounds. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s292-s293.	0.0	0