Andrey A Golov

List of Publications by Year
in descending order

23 papers	528 citations	758635 12 h-index	676716 22 g-index
23 all docs	23 docs citations	23 times ranked	727 citing authors

#	Article	IF	Citations
1	Homo Citans and Carbon Allotropes: For an Ethics of Citation. Angewandte Chemie - International Edition, 2016, 55, 10962-10976.	7.2	251
2	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
3	Topology versus porosity: what can reticular chemistry tell us about free space in metalâ€“organic frameworks?. Chemical Communications, 2020, 56, 9616-9619.	2.2	34
4	D-carbon: Ab initio study of a novel carbon allotrope. Journal of Chemical Physics, 2018, 149, 114702.	1.2	33
5	Network topological model of reconstructive solid-state transformations. Scientific Reports, 2019, 9, 6007.	1.6	21
6	Homo Citans und Kohlenstoffallotrope: FÃ¼r eine Ethik des Zitierens. Angewandte Chemie, 2016, 128, 11122-11139.	1.6	17
7	Combined DFT and geometricalâ€“topological analysis of Li-ion conductivity in complex hydrides. Inorganic Chemistry Frontiers, 2020, 7, 3115-3125.	3.0	17
8	Molecular-Level Insight into the Interfacial Reactivity and Ionic Conductivity of a Li-Argyrodite Li₆PS₅Cl Solid Electrolyte at Bare and Coated Li-Metal Anodes. ACS Applied Materials & Interfaces, 2021, 13, 43734-43745.	4.0	15
9	A New sp2â€“sp3-Hybridized Metallic Carbon Network for Lithium-Ion Battery Anode with Enhanced Safety and Lithium-Ion Diffusion Rate. Journal of Physical Chemistry C, 2019, 123, 15412-15418.	1.5	14
10	Ionic Transport in Doped Solid Electrolytes by Means of DFT Modeling and ML Approaches: A Case Study of Ti-Doped KFeO₂. Journal of Physical Chemistry C, 2019, 123, 29533-29542.	1.5	14
11	Natural tilings and free space in zeolites: models, statistics, correlations, prediction. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 421-436.	0.4	14
12	High-throughput systematic topological generation of low-energy carbon allotropes. Npj Computational Materials, 2021, 7, .	3.5	14
13	Acid-Driven Dimensionality Control of Cd(II) Complexes: From Discrete Double Open Cubane to One- and Three-Dimensional Networks. Crystal Growth and Design, 2014, 14, 4124-4137.	1.4	11
14	Sorption of multivalent cations on titanosilicate obtained from natural raw materials. The mechanism and thermodynamics of sorption. Microporous and Mesoporous Materials, 2021, 311, 110716.	2.2	11
15	Expanding the family of mineral-like anhydrous alkali copper sulfate framework structures: new phases, topological analysis and evaluation of ion migration potentialities. Journal of Applied Crystallography, 2021, 54, 237-250.	1.9	7
16	Perceiving Zeolite Self-Assembly: A Combined Top-Down and Bottom-Up Approach within the Tiling Model. Journal of Physical Chemistry C, 2020, 124, 1523-1528.	1.5	5
17	Topological analysis of procrystal electron densities as a tool for computational modeling of solid electrolytes: A case study of known and promising potassium conductors. AIP Conference Proceedings, 2019, , .	0.3	4
18	Studying the Sorption of Certain Benzimidazoles on Octadecyl Silica Gel from Waterâ€“Acetonitrile Solutions via Liquid Chromatography. Russian Journal of Physical Chemistry A, 2018, 92, 1572-1582.	0.1	3

#	Article	IF	Citations
19	Combinatorial-topological modeling of the cluster self-assembly of zeolite crystal structures: computer search for molecular templates for new zeolite ISC-2. Russian Chemical Bulletin, 2016, 65, 29-39.	0.4	2
20	Space filling of permethylated Î²â€cyclodextrin by volatile hydrophobic and hydrophilic guests in polyethylene glycol. Journal of the Chinese Chemical Society, 2019, 66, 157-163.	0.8	2
21	A combined DFT/topological analysis approach for modeling disordered solid electrolytes. EPJ Web of Conferences, 2019, 201, 02005.	0.1	1
22	Complex approach to analysis of crystal structures based on a unified topological model. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e153-e154.	0.0	1
23	SACADA - the database of three periodic carbon allotropes. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s356-s356.	0.0	0