# Andrey A Golov

List of Publications by Year
in descending order



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|---|---|---|---|
| 23 papers | 528 citations | 759233 12 h-index | 677142 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. | 13.8 | 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. | 2.7 | 37 |
| 3 | Topology versus porosity: what can reticular chemistry tell us about free space in metalâ€"organic frameworks?. Chemical Communications, 2020, 56, 9616-9619. | 4.1 | 34 |
| 4 | D-carbon: Ab initio study of a novel carbon allotrope. Journal of Chemical Physics, 2018, 149, 114702. | 3.0 | 33 |
| 5 | Network topological model of reconstructive solid-state transformations. Scientific Reports, 2019, 9, 6007. | 3.3 | 21 |
| 6 | Homo Citans und Kohlenstoffallotrope: FÃ¼r eine Ethik des Zitierens. Angewandte Chemie, 2016, 128, 11122-11139. | 2.0 | 17 |
| 7 | Combined DFT and geometricalâ€"topological analysis of Li-ion conductivity in complex hydrides. Inorganic Chemistry Frontiers, 2020, 7, 3115-3125. | 6.0 | 17 |
| 8 | Molecular-Level Insight into the Interfacial Reactivity and Ionic Conductivity of a Li-Argyrodite Li<sub>6</sub>PS<sub>5</sub>Cl Solid Electrolyte at Bare and Coated Li-Metal Anodes. ACS Applied Materials & Interfaces, 2021, 13, 43734-43745. | 8.0 | 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. | 3.1 | 14 |
| 10 | Ionic Transport in Doped Solid Electrolytes by Means of DFT Modeling and ML Approaches: A Case Study of Ti-Doped KFeO<sub>2</sub>. Journal of Physical Chemistry C, 2019, 123, 29533-29542. | 3.1 | 14 |
| 11 | Natural tilings and free space in zeolites: models, statistics, correlations, prediction. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 421-436. | 0.8 | 14 |
| 12 | High-throughput systematic topological generation of low-energy carbon allotropes. Npj Computational Materials, 2021, 7, . | 8.7 | 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. | 3.0 | 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. | 4.4 | 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. | 4.5 | 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. | 3.1 | 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, , . | 0.4 | 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. | 0.6 | 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. | 1.5 | 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. | 1.4 | 2 |
| 21 | A combined DFT/topological analysis approach for modeling disordered solid electrolytes. EPJ Web of Conferences, 2019, 201, 02005. | 0.3 | 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. | 0.1 | 1 |
| 23 | SACADA - the database of three periodic carbon allotropes. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s356-s356. | 0.1 | 0 |