

# Alexander N Morozov

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

395  
citations

759233

12  
h-index

752698

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mass growth through ring expansion in polycyclic aromatic hydrocarbons via radical-radical reactions. <i>Nature Communications</i> , 2019, 10, 3689.	12.8	59
2	Low-temperature gas-phase formation of indene in the interstellar medium. <i>Science Advances</i> , 2021, 7, .	10.3	42
3	Gas-phase synthesis of benzene via the propargyl radical self-reaction. <i>Science Advances</i> , 2021, 7, .	10.3	34
4	A Theoretical Study of Pyrolysis of <i>exo</i> -Tetrahydrodicyclopentadiene and Its Primary and Secondary Unimolecular Decomposition Products. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4920-4934.	2.5	28
5	Gas phase synthesis of [4]-helicene. <i>Nature Communications</i> , 2019, 10, 1510.	12.8	27
6	Elucidating the Chemical Dynamics of the Elementary Reactions of the 1-Propynyl Radical ( $\text{CH}_3\text{C}\equiv\text{C}\cdot$ ; $\text{X}^2\text{A}^1$ ) with Methylacetylene ( $\text{H}_3\text{C}\text{C}\equiv\text{C}\text{H}$ ); $\text{Tj ETQq0 0 0 rrgBT /Overlock 10 T}$	2.5	25
7	Aggregation induced emission enhancement (AIEE) of tripodal pyrazole derivatives for sensing of nitroaromatics and vapor phase detection of picric acid. <i>New Journal of Chemistry</i> , 2019, 43, 7251-7258.	2.8	23
8	Theoretical study of the reaction mechanism and kinetics of the phenyl + propargyl association. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6868-6880.	2.8	22
9	Chloroperoxidase-Catalyzed Epoxidation of <i>cis</i> - $\beta$ -Methylstyrene: Distal Pocket Flexibility Tunes Catalytic Reactivity. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12905-12914.	2.6	16
10	Remarkably selective $\text{NH}_4^+$ binding and fluorescence sensing by tripodal tris(pyrazolyl) receptors derived from 1,3,5-triethylbenzene: structural and theoretical insights on the role of ion pairing. <i>New Journal of Chemistry</i> , 2017, 41, 14835-14838.	2.8	15
11	Gas-Phase Formation of Fulvenallene ( $\text{C}_7\text{H}_6$ ) via the Jahn-Teller Distorted Tropylium Radical Intermediate under Single-Collision Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 3205-3213.	13.7	15
12	Enantiospecificity of Chloroperoxidase-Catalyzed Epoxidation: Biased Molecular Dynamics Study of a <i>Cis</i> - $\beta$ -Methylstyrene/Chloroperoxidase-Compound I Complex. <i>Biophysical Journal</i> , 2011, 100, 1066-1075.	0.5	14
13	Theoretical Study of the Reaction Mechanism and Kinetics of the Phenyl + Allyl and Related Benzyl + Vinyl Associations. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1720-1729.	2.5	14
14	A Possible Mechanism for Redox Control of Human Neuroglobin Activity. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1997-2003.	5.4	11
15	Theoretical Study of the Phenoxy Radical Recombination with the $\text{O}^3\text{P}$ Atom, Phenyl plus Molecular Oxygen Revisited. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3965-3977.	2.5	11
16	Chloroperoxidase-Catalyzed Epoxidation of <i>Cis</i> - $\beta$ -Methylstyrene: $\text{NH}\cdots\text{S}$ Hydrogen Bonds and Proximal Helix Dipole Change the Catalytic Mechanism and Significantly Lower the Reaction Barrier. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14350-14363.	2.6	8
17	Proximal Pocket Controls Alkene Oxidation Selectivity of Cytochrome P450 and Chloroperoxidase toward Small, Nonpolar Substrates. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7828-7838.	2.6	7
18	The Reaction of <i>ortho</i> -Benzyne with Vinylacetylene: An Unexplored Way to Produce Naphthalene. <i>ChemPhysChem</i> , 2022, 23, .	2.1	7

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19	Proximal Pocket Hydrogen Bonds Significantly Influence the Mechanism of Chloroperoxidase Compound I Formation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12590-12602.	2.6	6
20	How the Proximal Pocket May Influence the Enantiospecificities of Chloroperoxidase-Catalyzed Epoxidations of Olefins. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1297.	4.1	5
21	1,3,5-Tris-(4-(iso-propyl)-phenylsulfamoylmethyl)benzene as a potential Am(III) extractant: experimental and theoretical study of Sm(III) complexation and extraction and theoretical correlation with Am(III). <i>Molecular Physics</i> , 2018, 116, 2719-2727.	1.7	2
22	Spectroscopic and Theoretical Insights into Surprisingly Effective Sm(III) Extraction from Alkaline Aqueous Media by <i>o</i> -Phenylenediamine-Derived Sulfonamides. <i>Inorganic Chemistry</i> , 2020, 59, 6884-6894.	4.0	2
23	Chromatographic framework for coffee ring effect-driven separation of small molecules in surface enhanced Raman spectroscopy analysis. <i>Talanta</i> , 2022, 250, 123688.	5.5	2