

# Ivan Gladich

## List of Publications by Year in descending order

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37  
papers

899  
citations

430874

18  
h-index

477307

29  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Dynamics of Ice, Ice Surfaces and Impurities on Ice. , 2022, , 173-257.		0
2	Liquid-Gas Interface of Iron Aqueous Solutions and Fenton Reagents. Journal of Physical Chemistry Letters, 2022, 13, 2994-3001.	4.6	7
3	Computational Evolution Protocol for Peptide Design. Methods in Molecular Biology, 2022, 2405, 335-359.	0.9	3
4	Reply to "Comment on "Liquid-Gas Interface of Iron Aqueous Solutions and Fenton Reagents". Journal of Physical Chemistry Letters, 2022, 13, 6681-6682.	4.6	2
5	Stability of a Monoethanolamine-CO <sub>2</sub> Zwitterion at the Vapor/Liquid Water Interface: Implications for Low Partial Pressure Carbon Capture Technologies. Journal of Physical Chemistry B, 2021, 125, 4890-4897.	2.6	13
6	A surface-promoted redox reaction occurs spontaneously on solvating inorganic aerosol surfaces. Science, 2021, 374, 747-752.	12.6	28
7	Uptake and hydration of sulfur dioxide on dry and wet hydroxylated silica surfaces: a computational study. Physical Chemistry Chemical Physics, 2021, 24, 172-179.	2.8	4
8	Tuning CO <sub>2</sub> Capture at the Gas/Amine Solution Interface by Changing the Solvent Polarity. Journal of Physical Chemistry B, 2020, 124, 10245-10256.	2.6	11
9	Solvation and Stabilization of Single-Strand RNA at the Air/Ice Interface Support a Primordial RNA World on Ice. Journal of Physical Chemistry C, 2020, 124, 18587-18594.	3.1	1
10	Adsorption and isomerization of glyoxal and methylglyoxal at the air/hydroxylated silica surface. Journal of Chemical Physics, 2020, 152, 164702.	3.0	4
11	Hydration, Solvation, and Isomerization of Methylglyoxal at the Air/Water Interface: New Mechanistic Pathways. Journal of the American Chemical Society, 2020, 142, 5574-5582.	13.7	26
12	Surface Propensity of Aqueous Atmospheric Bromine at the Liquid-Gas Interface. Journal of Physical Chemistry Letters, 2020, 11, 3422-3429.	4.6	22
13	Tuning the Stereoselectivity and Solvation Selectivity at Interfacial and Bulk Environments by Changing Solvent Polarity: Isomerization of Glyoxal in Different Solvent Environments. Journal of the American Chemical Society, 2018, 140, 5535-5543.	13.7	23
14	Simulating global horizontal irradiance in the Arabian Peninsula: Sensitivity to explicit treatment of aerosols. Solar Energy, 2018, 163, 347-355.	6.1	18
15	Peptide biosensors for anticancer drugs: Design in silico to work in denaturing environment. Biosensors and Bioelectronics, 2018, 100, 298-303.	10.1	20
16	Vertical Ozone Concentration Profiles in the Arabian Gulf Region during Summer and Winter: Sensitivity of WRF-Chem to Planetary Boundary Layer Schemes. Aerosol and Air Quality Research, 2018, 18, 1183-1197.	2.1	12
17	A surface-stabilized ozonide triggers bromide oxidation at the aqueous solution-vapour interface. Nature Communications, 2017, 8, 700.	12.8	59
18	Interfaces Select Specific Stereochemical Conformations: The Isomerization of Glyoxal at the Liquid Water Interface. Journal of the American Chemical Society, 2017, 139, 27-30.	13.7	38

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19	Protein-protein structure prediction by scoring molecular dynamics trajectories of putative poses. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1312-1320.	2.6	11
20	Hydrogen bonding and orientation effects on the accommodation of methylamine at the air-water interface. <i>Journal of Chemical Physics</i> , 2016, 144, 214701.	3.0	34
21	Impact of atmospheric dust emission schemes on dust production and concentration over the Arabian Peninsula. <i>Modeling Earth Systems and Environment</i> , 2016, 2, 1.	3.4	26
22	A quasi-liquid mediated continuum model of faceted ice dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,035.	3.3	10
23	In Silico Design of Short Peptides as Sensing Elements for Phenolic Compounds. <i>ACS Sensors</i> , 2016, 1, 279-286.	7.8	14
24	Ab Initio Study of the Reaction of Ozone with Bromide Ion. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4482-4488.	2.5	13
25	Designing High-Affinity Peptides for Organic Molecules by Explicit Solvent Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12963-12969.	2.6	17
26	Mechanism of anisotropic surface self-diffusivity at the prismatic ice-vapor interface. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22947-22958.	2.8	8
27	Adsorption, Mobility, and Self-Association of Naphthalene and 1-Methylnaphthalene at the Water-Vapor Interface. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1052-1066.	2.5	21
28	Spectroscopic Properties of Benzene at the Air-Ice Interface: A Combined Experimental-Computational Approach. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7535-7547.	2.5	27
29	A review of air-ice chemical and physical interactions (AICI): liquids, quasi-liquids, and solids in snow. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1587-1633.	4.9	235
30	Comparison of selected polarizable and nonpolarizable water models in molecular dynamics simulations of ice Ih. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11371.	2.8	25
31	Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19960.	2.8	29
32	The Ice-Vapor Interface and the Melting Point of Ice $\langle i \rangle_{\langle h \rangle}$ for the Polarizable POL3 Water Model. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5973-5982.	2.5	19
33	Self-Organization of 1-Methylnaphthalene on the Surface of Artificial Snow Grains: A Combined Experimental-Computational Approach. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11412-11422.	2.5	43
34	Halide Affinity for the Water-Air Interface in Aqueous Solutions of Mixtures of Sodium Salts. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5895-5899.	2.5	30
35	On the diurnal cycle of deep moist convection in the southern side of the Alps analysed through cloud-to-ground lightning activity. <i>Atmospheric Research</i> , 2011, 100, 371-376.	4.1	12
36	Negative heat capacity of small systems in the microcanonical ensemble. <i>Europhysics Letters</i> , 2010, 90, 63001.	2.0	17

#	ARTICLE	IF	CITATIONS
37	Halide and sodium ion parameters for modeling aqueous solutions in TIP5P-Ew water. Chemical Physics Letters, 2010, 489, 113-117.	2.6	16