Ivan Gladich

List of Publications by Citations

35 papers	663 citations	15 h-index	25 g-index
38 ext. papers	786 ext. citations	6.3 avg, IF	3.67 L-index

#	Paper	IF	Citations
35	A review of air-ice chemical and physical interactions (AICI): liquids, quasi-liquids, and solids in snow. *Atmospheric Chemistry and Physics*, **2014**, 14, 1587-1633	6.8	185
34	A surface-stabilized ozonide triggers bromide oxidation at the aqueous solution-vapour interface. *Nature Communications*, **2017**, 8, 700	17.4	39
33	Self-organization of 1-methylnaphthalene on the surface of artificial snow grains: a combined experimental-computational approach. *Journal of Physical Chemistry A*, **2011**, 115, 11412-22	2.8	38
32	Hydrogen bonding and orientation effects on the accommodation of methylamine at the air-water interface. *Journal of Chemical Physics*, **2016**, 144, 214701	3.9	27
31	Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice. *Physical Chemistry Chemical Physics*, **2011**, 13, 19960-9	3.6	26
30	Halide affinity for the water-air interface in aqueous solutions of mixtures of sodium salts. *Journal of Physical Chemistry A*, **2011**, 115, 5895-9	2.8	25
29	Spectroscopic properties of benzene at the air-ice interface: a combined experimental-computational approach. *Journal of Physical Chemistry A*, **2014**, 118, 7535-47	2.8	23
28	Interfaces Select Specific Stereochemical Conformations: The Isomerization of Glyoxal at the Liquid Water Interface. *Journal of the American Chemical Society*, **2017**, 139, 27-30	16.4	23
27	Comparison of selected polarizable and nonpolarizable water models in molecular dynamics simulations of ice I(h). *Physical Chemistry Chemical Physics*, **2012**, 14, 11371-85	3.6	21
26	Impact of atmospheric dust emission schemes on dust production and concentration over the Arabian Peninsula. *Modeling Earth Systems and Environment*, **2016**, 2, 1	3.2	19
25	Adsorption, mobility, and self-association of naphthalene and 1-methylnaphthalene at the water-vapor interface. *Journal of Physical Chemistry A*, **2014**, 118, 1052-66	2.8	19
24	The ice-vapor interface and the melting point of ice I(h) for the polarizable POL3 water model. *Journal of Physical Chemistry A*, **2011**, 115, 5973-82	2.8	18
23	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	16.4	17
22	Simulating global horizontal irradiance in the Arabian Peninsula: Sensitivity to explicit treatment of aerosols. *Solar Energy*, **2018**, 163, 347-355	6.8	15
21	Peptide biosensors for anticancer drugs: Design in silico to work in denaturizing environment. *Biosensors and Bioelectronics*, **2018**, 100, 298-303	11.8	15
20	Halide and sodium ion parameters for modeling aqueous solutions in TIP5P-Ew water. *Chemical Physics Letters*, **2010**, 489, 113-117	2.5	15
19	Designing High-Affinity Peptides for Organic Molecules by Explicit Solvent Molecular Dynamics. *Journal of Physical Chemistry B*, **2015**, 119, 12963-9	3.4	14

18	Hydration, Solvation, and Isomerization of Methylglyoxal at the Air/Water Interface: New Mechanistic Pathways. *Journal of the American Chemical Society*, **2020**, 142, 5574-5582	16.4	13
17	Negative heat capacity of small systems in the microcanonical ensemble. *Europhysics Letters*, **2010**, 90, 63001	1.6	13
16	Surface Propensity of Aqueous Atmospheric Bromine at the Liquid-Gas Interface. *Journal of Physical Chemistry Letters*, **2020**, 11, 3422-3429	6.4	13
15	In Silico Design of Short Peptides as Sensing Elements for Phenolic Compounds. *ACS Sensors*, **2016**, 1, 279-286	9.2	11
14	Ab initio study of the reaction of ozone with bromide ion. *Journal of Physical Chemistry A*, **2015**, 119, 4482-8	2.8	11
13	On the diurnal cycle of deep moist convection in the southern side of the Alps analysed through cloud-to-ground lightning activity. *Atmospheric Research*, **2011**, 100, 371-376	5.4	10
12	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	4.6	9
11	Protein-protein structure prediction by scoring molecular dynamics trajectories of putative poses. *Proteins: Structure, Function and Bioinformatics*, **2016**, 84, 1312-20	4.2	9
10	Mechanism of anisotropic surface self-diffusivity at the prismatic ice-vapor interface. *Physical Chemistry Chemical Physics*, **2015**, 17, 22947-58	3.6	6
9	A quasi-liquid mediated continuum model of faceted ice dynamics. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 14,035-14,055	4.4	6
8	A surface-promoted redox reaction occurs spontaneously on solvating inorganic aerosol surfaces. *Science*, **2021**, 374, 747-752	33.3	6
7	Tuning CO Capture at the Gas/Amine Solution Interface by Changing the Solvent Polarity. *Journal of Physical Chemistry B*, **2020**, 124, 10245-10256	3.4	5
6	Liquid-Gas Interface of Iron Aqueous Solutions and Fenton Reagents.. *Journal of Physical Chemistry Letters*, **2022**, 2994-3001	6.4	3
5	Stability of a Monoethanolamine-CO Zwitterion at the Vapor/Liquid Water Interface: Implications for Low Partial Pressure Carbon Capture Technologies. *Journal of Physical Chemistry B*, **2021**, 125, 4890-4897	3.4	2
4	Adsorption and isomerization of glyoxal and methylglyoxal at the air/hydroxylated silica surface. *Journal of Chemical Physics*, **2020**, 152, 164702	3.9	1
3	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	3.8	1
2	Computational Evolution Protocol for Peptide Design.. *Methods in Molecular Biology*, **2022**, 2405, 335-359	1.4	1
1	Molecular Dynamics of Ice, Ice Surfaces and Impurities on Ice **2021**, 173-257		