

Gilbert M Nathanson

List of Publications by Year in descending order

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942
citing authors

#	ARTICLE	IF	CITATIONS
1	When Liquid Rays Become Gas Rays: Can Evaporation Ever Be Non-Maxwellian?. , 2021, , 631-647.		1
2	The Wisconsin Oscillator: A Low-Cost Circuit for Powering Ion Guides, Funnel, and Traps. Journal of the American Society for Mass Spectrometry, 2021, 32, 2821-2826.	2.8	1
3	$S_{N}2$ Reactions of N_2O_5 with Ions in Water: Microscopic Mechanisms, Intermediates, and Products. Journal of Physical Chemistry A, 2020, 124, 711-720.	2.5	8
4	Experimental Depth Profiles of Surfactants, Ions, and Solvent at the Angstrom Scale: Studies of Cationic and Anionic Surfactants and Their Salting Out. Journal of Physical Chemistry B, 2020, 124, 2218-2229.	2.6	18
5	Competing Segregation of Br^- and Cl^- to a Surface Coated with a Cationic Surfactant: Direct Measurements of Ion and Solvent Depth Profiles. Journal of Physical Chemistry A, 2020, 124, 11102-11110.	2.5	7
6	Production of Br_2 from N_2O_5 and Br^- in Salty and Surfactant-Coated Water Microjets. Journal of Physical Chemistry A, 2019, 123, 8942-8953.	2.5	11
7	Sulfate and Carboxylate Suppress the Formation of $ClNO_2$ at Atmospheric Interfaces. ACS Earth and Space Chemistry, 2019, 3, 1987-1997.	2.7	18
8	<i>Ab initio</i> molecular dynamics studies of formic acid dimer colliding with liquid water. Physical Chemistry Chemical Physics, 2018, 20, 23717-23725.	2.8	15
9	Control of Interfacial Cl_2 and N_2O_5 Reactivity by a Zwitterionic Phospholipid in Comparison with Ionic and Uncharged Surfactants. Journal of Physical Chemistry A, 2018, 122, 6593-6604.	2.5	12
10	N_2O_5 at water surfaces: binding forces, charge separation, energy accommodation and atmospheric implications. Physical Chemistry Chemical Physics, 2018, 20, 17961-17976.	2.8	18
11	Reactions of N_2O_5 with Salty and Surfactant-Coated Glycerol: Interfacial Conversion of Br^- to Br_2 Mediated by Alkylammonium Cations. Journal of Physical Chemistry A, 2017, 121, 3708-3719.	2.5	18
12	Liquid Microjet Measurements of the Entry of Organic Acids and Bases into Salty Water. Journal of Physical Chemistry C, 2017, 121, 20911-20924.	3.1	14
13	Deprotonation of formic acid in collisions with a liquid water surface studied by molecular dynamics and metadynamics simulations. Physical Chemistry Chemical Physics, 2016, 18, 29756-29770.	2.8	22
14	Super-Maxwellian helium evaporation from pure and salty water. Journal of Chemical Physics, 2016, 144, 044707.	3.0	15
15	Microjets and coated wheels: versatile tools for exploring collisions and reactions at gas-liquid interfaces. Chemical Society Reviews, 2016, 45, 3609-3620.	38.1	43
16	Gas-Phase Microjet Reactive Scattering: Collisions of HCl and DCl with Cool Salty Water. Journal of Physical Chemistry Letters, 2016, 7, 730-735.	4.6	17
17	DCl Transport through Dodecyl Sulfate Films on Salty Glycerol: Effects of Seawater Ions on Gas Entry. Journal of Physical Chemistry A, 2015, 119, 12357-12366.	2.5	15
18	Probing Gas-Liquid Interfacial Dynamics by Helium Evaporation from Hydrocarbon Liquids and Jet Fuels. Journal of Physical Chemistry C, 2015, 119, 14613-14623.	3.1	14

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19	Frontispiece: Selective Photoelectrochemical Reduction of Aqueous CO ₂ to CO by Solvated Electrons. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	13.8	0
20	Ballistic Evaporation and Solvation of Helium Atoms at the Surfaces of Protic and Hydrocarbon Liquids. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3914-3918.	4.6	10
21	Collisions of Sodium Atoms with Liquid Glycerol: Insights into Solvation and Ionization. <i>Journal of the American Chemical Society</i> , 2014, 136, 3065-3074.	13.7	13
22	The Entry of HCl through Soluble Surfactants on Sulfuric Acid: Effects of Chain Branching. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7993-8001.	2.6	4
23	Surfactant-Promoted Reactions of Cl ₂ and Br ₂ with Br [•] in Glycerol. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12602-12612.	2.6	16
24	Inert Gas Scattering from Liquid Hydrocarbon Microjets. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3045-3049.	4.6	17
25	Reactions of Solvated Electrons Initiated by Sodium Atom Ionization at the Vacuum-Liquid Interface. <i>Science</i> , 2012, 335, 1072-1075.	12.6	27
26	Kinematics and dynamics of atomic-beam scattering on liquid and self-assembled monolayer surfaces. <i>Faraday Discussions</i> , 2012, 157, 355.	3.2	55
27	Near-Interfacial Halogen Atom Exchange in Collisions of Cl ₂ with 2.7 M NaBr in Glycerol. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12306-12318.	2.6	10
28	Molecular beam studies of HCl dissolution and dissociation in cold salty water. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8284.	2.8	28
29	Interfacial Acid Dissociation and Proton Exchange Following Collisions of DCl with Salty Glycerol and Salty Water. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 622-627.	4.6	23
30	Collisions of DCl with a Solution Covered with Hydrophobic and Hydrophilic Ions: Tetrahexylammonium Bromide in Glycerol. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7422-7430.	2.5	18
31	Surfactant Control of Gas Transport and Reactions at the Surface of Sulfuric Acid. <i>Accounts of Chemical Research</i> , 2009, 42, 379-387.	15.6	51
32	The Roles of Salt Concentration and Cation Charge in Collisions of Ar and DCl with Salty Glycerol Solutions of NaI and CaCl ₂ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 3008-3017.	3.1	21
33	The Inhibition of N ₂ O ₅ Hydrolysis in Sulfuric Acid by 1-Butanol and 1-Hexanol Surfactant Coatings. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2921-2929.	2.5	66
34	Collisions of DCl with Pure and Salty Glycerol: Enhancement of Interfacial D ⁺ H Exchange by Dissolved NaI. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4881-4891.	2.6	33
35	Evaporation of Water through Butanol Films at the Surface of Supercooled Sulfuric Acid. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7449-7457.	2.5	50
36	Scattering, Trapping, and Ionization of HCl at the Surface of Liquid Glycerol. <i>Journal of Physical Chemistry B</i> , 2004, 108, 995-1002.	2.6	37

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37	MOLECULAR BEAM STUDIES OF GAS-LIQUID INTERFACES. Annual Review of Physical Chemistry, 2004, 55, 231-255.	10.8	156
38	Examination of liquid metal surfaces through angular and energy measurements of inert gas collisions with liquid Ga, In, and Bi. Journal of Chemical Physics, 2003, 119, 12593-12604.	3.0	31
39	Collisions of DCl with Liquid Glycerol: Evidence for Rapid, Near-Interfacial D-H Exchange and Desorption. Journal of Physical Chemistry B, 2002, 106, 4999-5010.	2.6	33
40	Surface Tensions and Surface Segregation of n-Butanol in Sulfuric Acid. Journal of Physical Chemistry B, 2002, 106, 8064-8069.	2.6	29
41	Collisions of HCl, DCl, and HBr with Liquid Glycerol: Gas Uptake, D-H Exchange, and Solution Thermodynamics. Journal of Physical Chemistry B, 2002, 106, 4988-4998.	2.6	52
42	Reaction and desorption of HCl and HBr following collisions with supercooled sulfuric acid. Geophysical Research Letters, 2001, 28, 1961-1964.	4.0	33
43	Atom scattering from atomic surfactants: Collisions of argon with a dilute Bi:Ga solution. Journal of Chemical Physics, 2001, 114, 1958-1961.	3.0	23
44	Molecular Beam Scattering from Supercooled Sulfuric Acid: Collisions of HCl, HBr, and HNO ₃ with 70 wt D ₂ SO ₄ . Journal of Physical Chemistry A, 2000, 104, 6738-6751.	2.5	72
45	Argon Scattering off the Surface of Liquid Indium: Exit Angle and Energy Dependence. Journal of Physical Chemistry B, 1998, 102, 206-211.	2.6	31
46	Effects of Thermal Roughening on the Angular Distributions of Trapping and Scattering in Gas-Liquid Collisions. Journal of Physical Chemistry A, 1997, 101, 6556-6561.	2.5	65
47	Collisions of Organic Molecules with Concentrated Sulfuric Acid: Scattering, Trapping, and Desorption. Journal of Physical Chemistry B, 1997, 101, 9098-9106.	2.6	26
48	Dynamics and Kinetics at the Gas-Liquid Interface. The Journal of Physical Chemistry, 1996, 100, 13007-13020.	2.9	283
49	Penetration of Water Vapor through Perfluorinated Polyether Films on Concentrated Sulfuric Acid. Langmuir, 1996, 12, 5448-5450.	3.5	7
50	Inert gas scattering from molten metals: Probing the stiffness and roughness of the surfaces of atomic liquids. Journal of Chemical Physics, 1996, 104, 4842-4849.	3.0	53
51	Collisions of protic and aprotic gases with a perfluorinated liquid. Journal of Chemical Physics, 1994, 100, 3999-4005.	3.0	55
52	The thermal roughening of liquid surfaces and its effect on gas-liquid collisions. Journal of Chemical Physics, 1994, 101, 2539-2547.	3.0	77
53	Collisions of protic and aprotic gases with hydrogen bonding and hydrocarbon liquids. Journal of Chemical Physics, 1993, 99, 7056-7075.	3.0	135