William A Alexander

List of Publications by Year
in descending order

23 papers	429 citations	687363 13 h-index	752698 20 g-index
23 all docs	23 docs citations	23 times ranked	371 citing authors

#	Article	IF	Citations
1	Kinematics and dynamics of atomic-beam scattering on liquid and self-assembled monolayer surfaces. Faraday Discussions, 2012, 157, 355.	3.2	55
2	Theoretical Study of the Arâˆ’, Krâˆ’, and Xeâˆ’CH4, âˆ’CF4Intermolecular Potential-Energy Surfaces. Journal of Physical Chemistry A, 2006, 110, 10834-10843.	2.5	51
3	Theoretical Study of the Effect of Surface Density on the Dynamics of Ar + Alkanethiolate Self-Assembled Monolayer Collisionsâ€. Journal of Physical Chemistry A, 2006, 110, 1319-1326.	2.5	41
4	Collisions of Polar and Nonpolar Gases with Hydrogen Bonding and Hydrocarbon Self-Assembled Monolayers. Journal of Physical Chemistry C, 2008, 112, 17272-17280.	3.1	32
5	Experimental and theoretical studies of the effect of mass on the dynamics of gas/organic-surface energy transfer. Journal of Chemical Physics, 2008, 128, 014713.	3.0	30
6	Reactions of Solvated Electrons Initiated by Sodium Atom Ionization at the Vacuum-Liquid Interface. Science, 2012, 335, 1072-1075.	12.6	27
7	Gasâ€“surface energy exchange and thermal accommodation of CO2 and Ar in collisions with methyl, hydroxyl, and perfluorinated self-assembled monolayers. Physical Chemistry Chemical Physics, 2010, 12, 12533.	2.8	25
8	Partitioning, Aqueous Solubility, and Dipole Moment Data for <i>cis</i>- and <i>trans</i>-(4-Methylcyclohexyl)methanol, Principal Contaminants of the West Virginia Chemical Spill. Environmental Science and Technology Letters, 2015, 2, 123-127.	8.7	24
9	Experimental and theoretical study of CO collisions with CH3- and CF3-terminated self-assembled monolayers. Journal of Chemical Physics, 2009, 130, 084702.	3.0	21
10	Interfacial energy exchange and reaction dynamics in collisions of gases on model organic surfaces. Progress in Surface Science, 2012, 87, 221-252.	8.3	21
11	Enabling Science Support for Better Decisionâ€Making when Responding to Chemical Spills. Journal of Environmental Quality, 2016, 45, 1490-1500.	2.0	20
12	Initial Reaction Probability and Dynamics of Ozone Collisions with a Vinyl-Terminated Self-Assembled Monolayer. Journal of Physical Chemistry C, 2011, 115, 25343-25350.	3.1	19
13	Theoretical Study of the Dynamics of Collisions Between HCl and Ï‰-Hydroxylated Alkanethiol Self-Assembled Monolayers. Journal of Physical Chemistry C, 2011, 115, 2273-2283.	3.1	19
14	Theoretical Study of the Stereodynamics of CO Collisions with CH₃- and CF₃-Terminated Alkanethiolate Self-Assembled Monolayers. Journal of Physical Chemistry A, 2009, 113, 4155-4167.	2.5	13
15	Collisions of Sodium Atoms with Liquid Glycerol: Insights into Solvation and Ionization. Journal of the American Chemical Society, 2014, 136, 3065-3074.	13.7	13
16	Particle Beam Scattering From the Vacuumâ€“Liquid Interface. , 2018, , 195-243.		7
17	Dipole moments of trans- and cis-(4-methylcyclohexyl)methanol (4-MCHM): obtaining the right conformer for the right reason. Physical Chemistry Chemical Physics, 2016, 18, 17856-17867.	2.8	4
18	On the accuracy of analytical potentials: comment on â€˜Accurateab initiocalculation of the Arâ€“CF4intermolecular potential energy surfaceâ€™. Molecular Simulation, 2015, 41, 610-612.	2.0	3

#	Article	IF	Citations
19	Computational Studies of Uranium Hexafluoride Interacting with Functionalized Organics. I. Screening Intermolecular Potentials between UF₆ and Small Organic Functional Groups. Journal of Physical Chemistry A, 2021, 125, 10130-10137.	2.5	2
20	Performance of a rigid rod statistical mechanical treatment to predict monolayer ordering: a study of chain interactions and comparison with molecular dynamics simulation. Journal of Mathematical Chemistry, 2017, 55, 423-435.	1.5	1
21	Methyl-Cyclohexane Methanol (MCHM) Isomer-Dependent Binding on Amorphous Carbon Surfaces. Molecules, 2021, 26, 3411.	3.8	1
22	Sodium atom beam collisions with the liquid glycerol surface: Mass effects of deuteration. Chemical Physics Letters, 2019, 730, 321-325.	2.6	0
23	Toward Computational Accuracy in Realistic Systems to Aid Understanding of Field-Level Water Quality Issues. Physchem, 2021, 1, 243-249.	1.1	0