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	Methyl-Cyclohexane Methanol (MCHM) Isomer-Dependent Binding on Amorphous Carbon Surfaces. Molecules, 2021, 26, 3411.	3.8	1
2	Toward Computational Accuracy in Realistic Systems to Aid Understanding of Field-Level Water Quality Issues. Physchem, 2021, 1, 243-249.	1.1	0
3	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
4	Sodium atom beam collisions with the liquid glycerol surface: Mass effects of deuteration. Chemical Physics Letters, 2019, 730, 321-325.	2.6	0
5	Particle Beam Scattering From the Vacuumâ€“Liquid Interface. , 2018, , 195-243.		7
6	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
7	Enabling Science Support for Better Decisionâ€Making when Responding to Chemical Spills. Journal of Environmental Quality, 2016, 45, 1490-1500.	2.0	20
8	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
9	Partitioning, Aqueous Solubility, and Dipole Moment Data for cis- and trans-(4-Methylcyclohexyl)methanol, Principal Contaminants of the West Virginia Chemical Spill. Environmental Science and Technology Letters, 2015, 2, 123-127.	8.7	24
10	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
11	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
12	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
13	Reactions of Solvated Electrons Initiated by Sodium Atom Ionization at the Vacuum-Liquid Interface. Science, 2012, 335, 1072-1075.	12.6	27
14	Kinematics and dynamics of atomic-beam scattering on liquid and self-assembled monolayer surfaces. Faraday Discussions, 2012, 157, 355.	3.2	55
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	Theoretical Study of the Arâ¯, Krâ¯, and Xeâ¯CH4, â¯CF4Intermolecular Potential-Energy Surfaces. Journal of Physical Chemistry A, 2006, 110, 10834-10843.	2.5	51