Nevin Uras-Aytemiz

List of Publications by Year in descending order

33 papers	1,228 citations	567281 15 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	1206 citing authors

#	Article	IF	Citations
1	Ice structures, patterns, and processes: A view across the icefields. Reviews of Modern Physics, 2012, 84, 885-944.	45.6	277
2	Discrete stages in the solvation and ionization of hydrogen chloride adsorbed on ice particles. Nature, 2002, 417, 269-271.	27.8	178
3	Clathrate hydrates with hydrogen-bonding guests. Physical Chemistry Chemical Physics, 2009, 11, 10245.	2.8	149
4	Solvation and Ionization Stages of HCl on Ice Nanocrystals. Journal of Physical Chemistry A, 2002, 106, 9374-9389.	2.5	127
5	Ice Surface Reactions with Acids and Bases. Journal of Physical Chemistry B, 1997, 101, 2327-2332.	2.6	70
6	Hydrogen Bond Surface Chemistry:Â Interaction of NH3with an Ice Particle. Journal of Physical Chemistry B, 2000, 104, 9203-9209.	2.6	44
7	Covalent HCl at the Surface of Crystalline Ice at 125 K:Â The Stable Phase at Submonolayer Levels. Journal of Physical Chemistry B, 1998, 102, 9375-9377.	2.6	39
8	Rate Study of Ice Particle Conversion to Ammonia Hemihydrate:â€‰ Hydrate Crust Nucleation and NH3 Diffusion. Journal of Physical Chemistry A, 2000, 104, 5770-5777.	2.5	39
9	Protonic and Bjerrum defect activity near the surface of ice at T<145 K. Journal of Chemical Physics, 2001, 115, 9835-9842.	3.0	39
10	Molecular bending mode frequencies of the surface and interior of crystalline ice. Journal of Chemical Physics, 1998, 108, 4525-4529.	3.0	35
11	Kinetics of Ice Particle Conversion to the Hydrates of HCl. Journal of Physical Chemistry A, 2001, 105, 10497-10500.	2.5	32
12	Coated Ice Nanocrystals from Waterâ^'Adsorbate Vapor Mixtures:â€‰ Formation of Etherâ^'CO2 Clathrate Hydrate Nanocrystals at 120 K. Journal of Physical Chemistry B, 1998, 102, 4526-4535.	2.6	29
13	Controlling Nonclassical Content of Clathrate Hydrates Through the Choice of Molecular Guests and Temperature. Journal of Physical Chemistry A, 2011, 115, 5822-5832.	2.5	24
14	HCl Solvation at the Surface and within Methanol Clusters/Nanoparticles II:Â Evidence for Molecular Wires. Journal of Physical Chemistry B, 2006, 110, 21751-21763.	2.6	21
15	HCl solvation in methanol clusters and nanoparticles: Evidence for proton-wires. Chemical Physics Letters, 2006, 422, 179-183.	2.6	19
16	NH3 as unique non-classical content-former within clathrate hydrates. Journal of Chemical Physics, 2017, 146, 234508.	3.0	12
17	Nonadditive effects in the mixed trimers of HCl and methanethiol. Journal of Chemical Physics, 2007, 126, 244308.	3.0	10
18	Interaction in the Ternary Complexes of HNO₃Â·Â·Â·HClÂ·Â·Â·H₂O: A Theoretical Study on Energetics, Structure, and Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 5943-5954.	2.5	10

#	Article	IF	Citations
19	Communication: Quantitative Fourier-transform infrared data for competitive loading of small cages during all-vapor instantaneous formation of gas-hydrate aerosols. Journal of Chemical Physics, 2011, 135, 141103.	3.0	10
20	Tracking all-vapor instant gas-hydrate formation and guest molecule populations: A possible probe for molecules trapped in water nanodroplets. Journal of Chemical Physics, 2012, 137, 204501.	3.0	10
21	Molecular Modes and Dynamics of HCl and DCl Guests of Gas Clathrate Hydrates. Journal of Physical Chemistry A, 2015, 119, 9018-9026.	2.5	9
22	NH3 as simple clathrate-hydrate catalyst: Experiment and theory. Journal of Chemical Physics, 2018, 148, 234501.	3.0	9
23	Some Novel Conducting Polythiophene Derivatives: Theoretical Analysis, Synthesis, Characterization and Electroreological Properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 435-444.	2.2	8
24	Communication: Fourier-transform infrared probing of remarkable quantities of gas trapped in cold homogeneously nucleated nanodroplets. Journal of Chemical Physics, 2013, 139, 021107.	3.0	7
25	Proton transfer and autoionization in HNO3Â·HClÂ·(H2O)n particles. Physical Chemistry Chemical Physics, 2011, 13, 18145.	2.8	6
26	CO2 and C2H2 in cold nanodroplets of oxygenated organic molecules and water. Journal of Chemical Physics, 2014, 141, 18C506.	3.0	4
27	Interaction in the Ternary Complexes of HClâ˜Methanolâ˜X, X = H₂O or NH₃:â€‰ Ab Initio Calculations and On-the-Fly Molecular Dynamics. Journal of Physical Chemistry A, 2008, 112, 3870-3878.	2.5	3
28	Microsolvation of HCl within Cold NH₃ Clusters. Journal of Physical Chemistry A, 2008, 112, 11423-11430.	2.5	2
29	Hydration of HNO3â€“HOCl clusters: Bonding properties. Computational and Theoretical Chemistry, 2014, 1038, 71-77.	2.5	2
30	A detailed hydrogen bonding analysis on the compositions of H 2 SO 4 /HNO 3 /H 2 O ternary systems: A computational study. Journal of Molecular Graphics and Modelling, 2018, 80, 272-281.	2.4	2
31	Hydrogen-bonding behavior of various conformations of the HNO3â€¦(CH3OH)2 ternary system. Journal of Molecular Modeling, 2018, 24, 23.	1.8	1
32	H-bonding behavior of ethylene oxide within the clathrate hydrates revisited: Experiment and theory. Chemical Physics Letters, 2020, 754, 137728.	2.6	1
33	Can sulfur-containing molecules solvate/ionize HCl? Solid state solvation of HCl on/in methanethiol clusters/nanoparticles. Journal of Chemical Physics, 2019, 151, 194309.	3.0	0