

Nevin Uras-Aytemiz

List of Publications by Year in descending order

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33
papers

1,228
citations

567281

15
h-index

414414

32
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33
all docs

33
docs citations

33
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	H-bonding behavior of ethylene oxide within the clathrate hydrates revisited: Experiment and theory. <i>Chemical Physics Letters</i> , 2020, 754, 137728.	2.6	1
2	Can sulfur-containing molecules solvate/ionize HCl? Solid state solvation of HCl on/in methanethiol clusters/nanoparticles. <i>Journal of Chemical Physics</i> , 2019, 151, 194309.	3.0	0
3	A detailed hydrogen bonding analysis on the compositions of H ₂ SO ₄ /HNO ₃ /H ₂ O ternary systems: A computational study. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 80, 272-281.	2.4	2
4	Hydrogen-bonding behavior of various conformations of the HNO ₃ ·(CH ₃ OH) ₂ ternary system. <i>Journal of Molecular Modeling</i> , 2018, 24, 23.	1.8	1
5	NH ₃ as simple clathrate-hydrate catalyst: Experiment and theory. <i>Journal of Chemical Physics</i> , 2018, 148, 234501.	3.0	9
6	NH ₃ as unique non-classical content-former within clathrate hydrates. <i>Journal of Chemical Physics</i> , 2017, 146, 234508.	3.0	12
7	Molecular Modes and Dynamics of HCl and DCl Guests of Gas Clathrate Hydrates. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9018-9026.	2.5	9
8	CO ₂ and C ₂ H ₂ in cold nanodroplets of oxygenated organic molecules and water. <i>Journal of Chemical Physics</i> , 2014, 141, 18C506.	3.0	4
9	Hydration of HNO ₃ ·HOCl clusters: Bonding properties. <i>Computational and Theoretical Chemistry</i> , 2014, 1038, 71-77.	2.5	2
10	Communication: Fourier-transform infrared probing of remarkable quantities of gas trapped in cold homogeneously nucleated nanodroplets. <i>Journal of Chemical Physics</i> , 2013, 139, 021107.	3.0	7
11	Tracking all-vapor instant gas-hydrate formation and guest molecule populations: A possible probe for molecules trapped in water nanodroplets. <i>Journal of Chemical Physics</i> , 2012, 137, 204501.	3.0	10
12	Ice structures, patterns, and processes: A view across the icefields. <i>Reviews of Modern Physics</i> , 2012, 84, 885-944.	45.6	277
13	Interaction in the Ternary Complexes of HNO ₃ ·HCl·H ₂ O: A Theoretical Study on Energetics, Structure, and Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5943-5954.	2.5	10
14	Proton transfer and autoionization in HNO ₃ ·HCl·(H ₂ O) _n particles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18145.	2.8	6
15	Communication: Quantitative Fourier-transform infrared data for competitive loading of small cages during all-vapor instantaneous formation of gas-hydrate aerosols. <i>Journal of Chemical Physics</i> , 2011, 135, 141103.	3.0	10
16	Controlling Nonclassical Content of Clathrate Hydrates Through the Choice of Molecular Guests and Temperature. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5822-5832.	2.5	24
17	Some Novel Conducting Polythiophene Derivatives: Theoretical Analysis, Synthesis, Characterization and Electroreological Properties. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 435-444.	2.2	8
18	Clathrate hydrates with hydrogen-bonding guests. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10245.	2.8	149

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19	Microsolvation of HCl within Cold NH ₃ Clusters. Journal of Physical Chemistry A, 2008, 112, 11423-11430.	2.5	2
20	Interaction in the Ternary Complexes of HCl-Methanol-X, X = H ₂ O or NH ₃ : Ab Initio Calculations and On-the-Fly Molecular Dynamics. Journal of Physical Chemistry A, 2008, 112, 3870-3878.	2.5	3
21	Nonadditive effects in the mixed trimers of HCl and methanethiol. Journal of Chemical Physics, 2007, 126, 244308.	3.0	10
22	HCl solvation in methanol clusters and nanoparticles: Evidence for proton-wires. Chemical Physics Letters, 2006, 422, 179-183.	2.6	19
23	HCl Solvation at the Surface and within Methanol Clusters/Nanoparticles II: Evidence for Molecular Wires. Journal of Physical Chemistry B, 2006, 110, 21751-21763.	2.6	21
24	Discrete stages in the solvation and ionization of hydrogen chloride adsorbed on ice particles. Nature, 2002, 417, 269-271.	27.8	178
25	Solvation and Ionization Stages of HCl on Ice Nanocrystals. Journal of Physical Chemistry A, 2002, 106, 9374-9389.	2.5	127
26	Kinetics of Ice Particle Conversion to the Hydrates of HCl. Journal of Physical Chemistry A, 2001, 105, 10497-10500.	2.5	32
27	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
28	Hydrogen Bond Surface Chemistry: Interaction of NH ₃ with an Ice Particle. Journal of Physical Chemistry B, 2000, 104, 9203-9209.	2.6	44
29	Rate Study of Ice Particle Conversion to Ammonia Hemihydrate: Hydrate Crust Nucleation and NH ₃ Diffusion. Journal of Physical Chemistry A, 2000, 104, 5770-5777.	2.5	39
30	Covalent HCl at the Surface of Crystalline Ice at 125 K: The Stable Phase at Submonolayer Levels. Journal of Physical Chemistry B, 1998, 102, 9375-9377.	2.6	39
31	Coated Ice Nanocrystals from Water Adsorbate Vapor Mixtures: Formation of Ether-CO ₂ Clathrate Hydrate Nanocrystals at 120 K. Journal of Physical Chemistry B, 1998, 102, 4526-4535.	2.6	29
32	Molecular bending mode frequencies of the surface and interior of crystalline ice. Journal of Chemical Physics, 1998, 108, 4525-4529.	3.0	35
33	Ice Surface Reactions with Acids and Bases. Journal of Physical Chemistry B, 1997, 101, 2327-2332.	2.6	70