

David T Anderson

List of Publications by Year in descending order

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citations

394421

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31

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48

all docs

48

docs citations

48

times ranked

445

citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared spectroscopy of chemically doped solid parahydrogen. International Reviews in Physical Chemistry, 2006, 25, 469-496.	2.3	89
2	Infrared spectra of CH ₃ F(ortho-H ₂) _n clusters in solid parahydrogen. Journal of Chemical Physics, 2003, 119, 4731-4742.	3.0	66
3	High-resolution spectroscopy of HCl and DCl isolated in solid parahydrogen: Direct, induced, and cooperative infrared transitions in a molecular quantum solid. Journal of Chemical Physics, 2002, 116, 594-607.	3.0	65
4	Infrared-induced reaction of Cl atoms trapped in solid parahydrogen. Physical Chemistry Chemical Physics, 2006, 8, 3124.	2.8	55
5	Probing reactive potential energy surfaces by vibrational activation of H ₂ -OH entrance channel complexes. International Reviews in Physical Chemistry, 2000, 19, 501-529.	2.3	54
6	Probing quantum solvation with infrared spectroscopy: infrared activity induced in solid parahydrogen by N ₂ and Ar dopants. Chemical Physics Letters, 2002, 356, 355-360.	2.6	43
7	Photodissociation of N-methylformamide isolated in solid parahydrogen. Journal of Chemical Physics, 2012, 137, 194313.	3.0	38
8	Infrared spectroscopy and time-resolved dynamics of the ortho-H ₂ -OH entrance channel complex. Journal of Chemical Physics, 1998, 109, 3461-3473.	3.0	35
9	Reactive quenching of electronically excited OH radicals in collisions with molecular hydrogen. Journal of Chemical Physics, 1999, 110, 11117-11120.	3.0	33
10	State-to-state inelastic scattering from vibrationally activated OH-H ₂ complexes. Journal of Chemical Physics, 1998, 109, 10707-10718.	3.0	32
11	The spin-orbit transition of atomic chlorine in solid H ₂ , HD, and D ₂ . Journal of Chemical Physics, 2007, 126, 021106.	3.0	32
12	Preferential solvation of CH ₃ F by ortho-H ₂ in cryogenic solid hydrogen. Journal of Molecular Structure, 2006, 786, 123-129.	3.6	31
13	The Cl + H ₂ → HCl + H Reaction Induced by IR + UV Irradiation of Cl ₂ in Solid <i><sub>i</sub>-H₂</i> : Experiment. Journal of Physical Chemistry A, 2009, 113, 7621-7629.	2.5	31
14	Reactive Quenching of OHA ₂ ⁺ in Collisions with Molecular Deuterium via Nonadiabatic Passage through a Conical Intersection. Journal of Physical Chemistry A, 2001, 105, 10031-10036.	2.5	27
15	Reactions of Atomic Hydrogen with Formic Acid and Carbon Monoxide in Solid Parahydrogen I: Anomalous Effect of Temperature. Journal of Physical Chemistry A, 2014, 118, 7640-7652.	2.5	27
16	High-Resolution Vibrational Spectroscopy of <i>trans</i> -Formic Acid in Solid Parahydrogen. Journal of Physical Chemistry A, 2009, 113, 1770-1778.	2.5	24
17	Quantum Diffusion-Controlled Chemistry: Reactions of Atomic Hydrogen with Nitric Oxide in Solid Parahydrogen. Journal of Physical Chemistry A, 2015, 119, 12270-12283.	2.5	22
18	Transient H ₂ O Infrared Satellite Peaks Produced in UV Irradiated Formic Acid Doped Solid Parahydrogen. Journal of Physical Chemistry Letters, 2012, 3, 342-347.	4.6	21

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19	Matrix Isolation Spectroscopy and Nuclear Spin Conversion of NH ₃ and ND ₃ in Solid Parahydrogen. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9712-9724.	2.5	20
20	Communication: H-atom reactivity as a function of temperature in solid parahydrogen: The H + N ₂ O reaction. <i>Journal of Chemical Physics</i> , 2013, 139, 151104.	3.0	20
21	Synthesis and infrared characterization of Br-HBr and Br-DBr entrance channel complexes in solid parahydrogen. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5564.	2.8	19
22	Conformation Resolved Induced Infrared Activity: < i>trans- and < i>cis-Formic Acid Isolated in Solid Molecular Hydrogen. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13346-13355.	2.5	19
23	Reactions of Atomic Hydrogen with Formic Acid and Carbon Monoxide in Solid Parahydrogen II: Deuterated Reaction Studies. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7653-7662.	2.5	18
24	Kinetic studies of the infrared-induced reaction between atomic chlorine and solid parahydrogen. <i>Journal of Molecular Spectroscopy</i> , 2015, 310, 72-83.	1.2	17
25	Signatures of a quantum diffusion limited hydrogen atom tunneling reaction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 422-434.	2.8	16
26	Infrared spectra of N ₂ O(ortho-D ₂)N and N ₂ O(HD)N clusters trapped in bulk solid parahydrogen. <i>Journal of Chemical Physics</i> , 2007, 126, 184506.	3.0	15
27	Infrared Spectroscopy of the Amide I Mode of < i>N< i>-Methylacetamide in Solid Hydrogen at 24 K. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13659-13667.	2.6	15
28	Hydrogen-atom tunneling reactions with methyl formate in solid < i>para-hydrogen: Infrared spectra of the methoxy carbonyl [C(O)OCH ₃] and formyloxy methyl [HC(O)OCH ₂] radicals. <i>Journal of Chemical Physics</i> , 2019, 151, 234302.	3.0	15
29	Transient HDO rovibrational satellite peaks in solid parahydrogen: Evidence of hydrogen atoms or vacancies?. <i>Low Temperature Physics</i> , 2012, 38, 673-678.	0.6	14
30	Stimulated Raman excitation of the ortho-H ₂ OH entrance channel complex. <i>Journal of Chemical Physics</i> , 1999, 110, 6732-6742.	3.0	12
31	High-resolution infrared spectroscopy of atomic bromine in solid parahydrogen and orthodeuterium. <i>Journal of Chemical Physics</i> , 2013, 139, 134304.	3.0	12
32	Fourier Transform Infrared Studies of Ammonia Photochemistry in Solid Parahydrogen. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13832-13842.	2.5	11
33	Hydrogen atom catalyzed ortho-to-para conversion in solid molecular hydrogen. <i>Low Temperature Physics</i> , 2019, 45, 676-688.	0.6	11
34	Infrared Spectroscopy and Inelastic Recoil Dynamics of OH Radicals in Complexes with ortho- and para-D ₂ . <i>Journal of Physical Chemistry A</i> , 2000, 104, 6532-6544.	2.5	10
35	Femtosecond pump-probe 2D optical Kerr effect spectroscopy of molecular hydrogen crystals. <i>Chemical Physics Letters</i> , 2008, 458, 303-307.	2.6	10
36	Photodissociation of Molecular Bromine in Solid H ₂ and D ₂ : Spectroscopy of the Atomic Bromine Spin-orbit Transition. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11153-11158.	2.5	10

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37	Nuclear spin conversion of water confined in solid parahydrogen. <i>Chemical Physics Letters</i> , 2020, 752, 137539.	2.6	9
38	Theoretical Study of Vibrationally Averaged Dipole Moments for the Ground and Excited C ₂ O Stretching States of <i>trans</i> -Formic Acid. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 817-827.	5.3	8
39	Hydrogen atom quantum diffusion in solid parahydrogen: The H + N ₂ O → <i>cis</i> -HNNO reaction. <i>Journal of Chemical Physics</i> , 2021, 154, 014302.	3.0	8
40	Infrared spectroscopic studies of the rare gas atom perturbed S ₁ (0) rovibron band of solid parahydrogen. <i>Journal of Molecular Spectroscopy</i> , 2007, 244, 138-145.	1.2	7
41	The infrared dielectric function of solid para-hydrogen. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1032-1041.	4.4	6
42	Infrared Spectroscopy and 193 nm Photochemistry of Methylamine Isolated in Solid Parahydrogen. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2420-2428.	2.5	6
43	Mode-selective decay dynamics of the <i>ortho</i> -H ₂ O complex: experiment and theory. <i>Molecular Physics</i> , 1999, 97, 151-158.	1.7	4
44	Controlling the Relative Orientation of Reactants with Intermolecular Forces: Intermolecular State-Dependent Structure in Prereactive H ₂ O Complexes. <i>Journal of Physical Chemistry A</i> , 2003, 107, 2606-2615.	2.5	4
45	Matrix Isolation Spectroscopy and Nuclear Spin Conversion of Propyne Suspended in Solid Parahydrogen. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4471-4483.	2.5	4
46	Time resolved dynamics of phonons and rotons in solid parahydrogen. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17435.	2.8	3
47	Solid Parahydrogen Infrared Matrix Isolation and Computational Studies of Li _n H ₂ O Complexes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 985-991.	2.5	1
48	High resolution infrared spectroscopy of (HCl) ₂ and (DCl) ₂ isolated in solid parahydrogen: Interchange-tunneling in a quantum solid. <i>Journal of Chemical Physics</i> , 2021, 154, 164309.	3.0	0