

Meredith J T Jordan

List of Publications by Year in descending order

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60
papers

2,631
citations

172207

29
h-index

182168

51
g-index

62
all docs

62
docs citations

62
times ranked

1847
citing authors

#	ARTICLE	IF	CITATIONS
1	An assessment of the tropospherically accessible photo-initiated ground state chemistry of organic carbonyls. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 929-949.	1.9	6
2	Rotational resonances in the H ₂ CO roaming reaction are revealed by detailed correlations. <i>Science</i> , 2020, 369, 1592-1596.	6.0	24
3	Dynamics and quantum yields of H ₂ + CH ₂ CO as a primary photolysis channel in CH ₃ CHO. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14284-14295.	1.3	16
4	Structural Effects on the Norrish Type I $\hat{\pm}$ -Bond Cleavage of Tropospherically Important Carbonyls. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10381-10396.	1.1	11
5	Path integrals with higher order actions: Application to realistic chemical systems. <i>Journal of Chemical Physics</i> , 2018, 148, 074106.	1.2	3
6	Zero-point energy conservation in classical trajectory simulations: Application to H ₂ CO. <i>Journal of Chemical Physics</i> , 2018, 148, 194113.	1.2	13
7	Photo-tautomerization of acetaldehyde as a photochemical source of formic acid in the troposphere. <i>Nature Communications</i> , 2018, 9, 2584.	5.8	38
8	The proton affinity of methane and its isotopologues: A test for theory. <i>Chemical Physics Letters</i> , 2018, 708, 216-221.	1.2	1
9	Infrared Spectra of Gas-Phase 1- and 2-Propenol Isomers. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3679-3688.	1.1	15
10	The energy dependence of CO(v,j) produced from H ₂ CO via the transition state, roaming, and triple fragmentation channels. <i>Journal of Chemical Physics</i> , 2017, 147, 013935.	1.2	27
11	A multi-agent quantum Monte Carlo model for charge transport: Application to organic field-effect transistors. <i>Journal of Chemical Physics</i> , 2015, 143, 044114.	1.2	10
12	Path integral Monte Carlo simulations of H ₂ adsorbed to lithium-doped benzene: A model for hydrogen storage materials. <i>Journal of Chemical Physics</i> , 2015, 143, 194302.	1.2	10
13	“Plug-and-Play” potentials: Investigating quantum effects in (H ₂) ₂ Li ⁺ benzene. <i>Journal of Chemical Physics</i> , 2015, 143, 074311.	1.2	7
14	H ₂ Adsorption in a Porous Crystal: Accurate First-Principles Quantum Simulation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12166-12181.	1.1	5
15	Generating accurate dipole moment surfaces using modified Shepard interpolation. <i>Journal of Chemical Physics</i> , 2014, 140, 204107.	1.2	4
16	Two roaming pathways in the photolysis of CH ₃ CHO between 328 and 308 nm. <i>Chemical Science</i> , 2014, 5, 4633-4638.	3.7	49
17	Quantum effects and anharmonicity in the H ₂ -Li ⁺ -benzene complex: A model for hydrogen storage materials. <i>Journal of Chemical Physics</i> , 2013, 139, 234305.	1.2	10
18	A Phase Space Theory for Roaming Reactions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7631-7642.	1.1	28

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19	Modeling molecular response in uniform and non-uniform electric fields. <i>Journal of Chemical Physics</i> , 2013, 138, 054111.	1.2	3
20	Experimental and Theoretical Investigation of Triple Fragmentation in the Photodissociation Dynamics of H ₂ CO. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12091-12103.	1.1	22
21	Photo-Tautomerization of Acetaldehyde to Vinyl Alcohol: A Potential Route to Tropospheric Acids. <i>Science</i> , 2012, 337, 1203-1206.	6.0	93
22	The enantiomers of syn-2,3-difluoro-4-aminobutyric acid elicit opposite responses at the GABA _C receptor. <i>Chemical Communications</i> , 2012, 48, 829-831.	2.2	51
23	Phototautomerization of Acetaldehyde to Vinyl Alcohol: A Primary Process in UV-Irradiated Acetaldehyde from 295 to 335 nm. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3522-3526.	2.1	49
24	Roaming Reaction Pathways Along Excited States. <i>Science</i> , 2012, 335, 1054-1055.	6.0	22
25	Near-threshold H/D exchange in CD ₃ CHO photodissociation. <i>Nature Chemistry</i> , 2011, 3, 443-448.	6.6	60
26	Synthesis and Conformational Analysis of 1,2-Difluoro-3-Amino Acid Derivatives. <i>Chemistry - A European Journal</i> , 2011, 17, 2340-2343.	1.7	51
27	Chemistry at the threshold: Unexpected products, unusual mechanisms, and generally weird things that happen near the energetic threshold for a reaction. , 2011, , .		0
28	Oxo-bridged isomers of aza-trishomocubane sigma (Îf) receptor ligands: Synthesis, in vitro binding, and molecular modeling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 145-148.	1.0	27
29	Method and basis set dependence of anharmonic ground state nuclear wave functions and zero-point energies: Application to SSSH. <i>Journal of Chemical Physics</i> , 2010, 132, 054105.	1.2	8
30	Photochemical formation of HCO and CH ₃ on the ground S ₁ (A ¹) state of CH ₃ CHO. <i>Journal of Chemical Physics</i> , 2009, 130, 054310.	1.2	42
31	Roaming is the dominant mechanism for molecular products in acetaldehyde photodissociation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12719-12724.	3.3	183
32	Enantiomers of cis-constrained and flexible 2-substituted GABA analogues exert opposite effects at recombinant GABAC receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 447-455.	1.4	23
33	Quantum Effects in Loosely Bound Complexes. <i>ACS Symposium Series</i> , 2006, , 101-140.	0.5	3
34	A classical trajectory study of the photodissociation of T1 acetaldehyde: The transition from impulsive to statistical dynamics. <i>Journal of Chemical Physics</i> , 2006, 124, 044302.	1.2	34
35	Stabilization of Zwitterions in Solution: Phosphinic and Phosphonic Acid GABA Analogues. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8398-8409.	1.1	8
36	CH ₅ : Chemistry's Chameleon Unmasked. <i>Journal of the American Chemical Society</i> , 2005, 127, 4954-4958.	6.6	68

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37	Stabilization of Zwitterions in Solution: $\hat{\Delta}$ GABA Analogues. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4195-4201.	1.1	21
38	On the Extent of Intramolecular Hydrogen Bonding in Gas-Phase and Hydrated 1,2-Ethanediol. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2971-2977.	1.1	49
39	Efficiency considerations in the construction of interpolated potential energy surfaces for the calculation of quantum observables by diffusion Monte Carlo. <i>Journal of Chemical Physics</i> , 2004, 121, 9844-9854.	1.2	14
40	Stabilization of Zwitterions in Solution: $\hat{\Delta}$ $\hat{\Delta}$ -Aminobutyric Acid (GABA). <i>Journal of Physical Chemistry A</i> , 2004, 108, 203-211.	1.1	42
41	To What Extent Do External Fields and Vibrational and Isotopic Effects Influence NMR Coupling Constants Across Hydrogen Bonds? Two-Bond $\hat{\Delta}$ -N Spin- $\hat{\Delta}$ Spin Coupling Constants ($2hJ_{\text{Cl-N}}$) in Model ClH:NH_3 Complexes. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5385-5392.	1.1	29
42	Can Proton-Shared or Ion-Pair $\hat{\Delta}$ -N Hydrogen Bonds Be Produced in Uncharged Complexes? A Systematic ab Initio Study of the Structures and Selected NMR and IR Properties of Complexes with $\hat{\Delta}$ -N Hydrogen Bonds. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10906-10914.	1.1	21
43	Relating Environmental Effects and Structures, IR, and NMR Properties of Hydrogen-Bonded Complexes: $\hat{\Delta}$ ClH:Pyridine . <i>Journal of Physical Chemistry A</i> , 2001, 105, 5442-5449.	1.1	31
44	Vibrational Effects on the $\hat{\Delta}$ -F Spin- $\hat{\Delta}$ Spin Coupling Constant ($2hJ_{\text{F-F}}$) in FHF- and FDF- . <i>Journal of Physical Chemistry A</i> , 2001, 105, 8399-8402.	1.1	58
45	An ab Initio Study of Anharmonicity and Field Effects in Hydrogen-Bonded Complexes of the Deuterated Analogues of HCl and HBr with NH_3 and $\text{N}(\text{CH}_3)_3$. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3371-3378.	1.1	34
46	Unraveling Environmental Effects on Hydrogen-Bonded Complexes: $\hat{\Delta}$ Matrix Effects on the Structures and Proton-Stretching Frequencies of Hydrogen- $\hat{\Delta}$ Halide Complexes with Ammonia and Trimethylamine. <i>Journal of the American Chemical Society</i> , 2000, 122, 2101-2115.	6.6	96
47	Ab initio potential energy surface for the reactions between H_2O and H . <i>Journal of Chemical Physics</i> , 2000, 112, 10162-10172.	1.2	62
48	Vibrational Spectroscopic and NMR Properties of Hydrogen-Bonded Complexes: $\hat{\Delta}$ Do They Tell Us the Same Thing?. <i>Journal of the American Chemical Society</i> , 2000, 122, 4794-4797.	6.6	63
49	Vibrational spectroscopy of the hydrogen bond: An ab initio quantum-chemical perspective. <i>International Reviews in Physical Chemistry</i> , 1999, 18, 119-162.	0.9	88
50	Molecular potential energy surfaces by interpolation in Cartesian coordinates. <i>Journal of Chemical Physics</i> , 1998, 108, 564-578.	1.2	83
51	Polyatomic molecular potential energy surfaces by interpolation in local internal coordinates. <i>Journal of Chemical Physics</i> , 1998, 108, 8302-8316.	1.2	226
52	A comparative study of anharmonicity and matrix effects on the complexes XH:NH_3 , $\text{X}=\text{F}$, Cl , and Br . <i>Journal of Chemical Physics</i> , 1998, 108, 3205-3212.	1.2	65
53	Classical and approximate quantum investigations of vibrational energy transfer in S_1 p-difluorobenzene. <i>Journal of Chemical Physics</i> , 1997, 106, 5439-5453.	1.2	7
54	Calculation of the photodetachment spectrum for $\text{H}_3\text{O-}$. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 747-753.	1.7	12

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55	An ab initio study of anharmonicity and matrix effects on the hydrogen-bonded BrH:NH ₃ complex. <i>Molecular Physics</i> , 1997, 92, 429-439.	0.8	36
56	An interpolated unrestricted Hartree-Fock potential energy surface for the OH+H ₂ →H ₂ O+H reaction. <i>Journal of Chemical Physics</i> , 1996, 104, 4600-4610.	1.2	69
57	Classical trajectory studies of the reaction CH ₄ +H→CH ₃ +H ₂ . <i>Journal of Chemical Physics</i> , 1995, 102, 5669-5682.	1.2	157
58	Convergence of molecular potential energy surfaces by interpolation: Application to the OH+H ₂ →H ₂ O+H reaction. <i>Journal of Chemical Physics</i> , 1995, 102, 5647-5657.	1.2	213
59	The utility of higher order derivatives in constructing molecular potential energy surfaces by interpolation. <i>Journal of Chemical Physics</i> , 1995, 103, 9669-9675.	1.2	99
60	Variational transition state theory: a simple model for dissociation and recombination reactions of small species. <i>The Journal of Physical Chemistry</i> , 1991, 95, 8685-8694.	2.9	31