Hanna Reisler

List of Publications by Year
in descending order

90	3,872	117571	128225
papers	citations	34 h-index	60 g-index

91	91	91	2131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Primary photodissociation mechanisms of pyruvic acid on S₁: observation of methylhydroxycarbene and its chemical reaction in the gas phase. Physical Chemistry Chemical Physics, 2021, 23, 4107-4119.	1.3	10
2	Looking at the bigger picture: Identifying the photoproducts of pyruvic acid at 193 nm. Journal of Chemical Physics, 2020, 153, 074307.	1.2	3
3	Spectroscopy and Two-Photon Dissociation of Jet-Cooled Pyruvic Acid. Journal of Physical Chemistry A, 2019, 123, 5906-5917.	1.1	15
4	Vibrational predissociation of the phenolâ€“water dimer: a view from the water. Physical Chemistry Chemical Physics, 2019, 21, 13968-13976.	1.3	4
5	Predissociation dynamics of the HClâ€“(H2O)3 tetramer: An experimental and theoretical investigation. Journal of Chemical Physics, 2018, 148, 204303.	1.2	3
6	Electronic Structure and Rydbergâ€“Core Interactions in Hydroxycarbene and Methylhydroxycarbene. Journal of Physical Chemistry A, 2018, 122, 6176-6182.	1.1	7
7	Temperature dependence of the photodissociation of CO2 from high vibrational levels: 205-230 nm imaging studies of CO(X1Î£+) and O(3P, 1D) products. Journal of Chemical Physics, 2017, 147, 013916.	1.2	3
8	Vibrational Predissociation of the HClâ€“(H₂O)₃ Tetramer. Journal of Physical Chemistry Letters, 2016, 7, 4243-4247.	2.1	10
9	Energetics and Predissociation Dynamics of Small Water, HCl, and Mixed HClâ€“Water Clusters. Chemical Reviews, 2016, 116, 4913-4936.	23.0	49
10	Amorphous Solid Water: Pulsed Heating of Buried N₂O₄. Journal of Physical Chemistry C, 2015, 119, 14548-14560.	1.5	1
11	Imaging Studies of Excited and Dissociative States of Hydroxymethylene Produced in the Photodissociation of the Hydroxymethyl Radical. Journal of Physical Chemistry A, 2014, 118, 11916-11925.	1.1	12
12	Experiment and Theory Elucidate the Multichannel Predissociation Dynamics of the HCl Trimer: Breaking Up Is Hard To Do. Journal of Physical Chemistry A, 2014, 118, 8402-8410.	1.1	19
13	Experimental and Theoretical Investigations of Energy Transfer and Hydrogen-Bond Breaking in Small Water and HCl Clusters. Accounts of Chemical Research, 2014, 47, 2700-2709.	7.6	46
14	Experimental and Theoretical Investigations of the Dissociation Energy (D0) and Dynamics of the Water Trimer, (H2O)3. Journal of Physical Chemistry A, 2013, 117, 7207-7216.	1.1	46
15	Imaging bond breaking and vibrational energy transfer in small water containing clusters. Chemical Physics Letters, 2013, 575, 1-11.	1.2	22
16	Accessing Multiple Conical Intersections in the 3s and 3pxPhotodissociation of the Hydroxymethyl Radical. Journal of Physical Chemistry A, 2013, 117, 12049-12059.	1.1	20
17	Improved sliced velocity map imaging apparatus optimized for H photofragments. Journal of Chemical Physics, 2013, 138, 144201.	1.2	23
18	Overtone-induced dissociation and isomerization dynamics of the hydroxymethyl radical (CH2OH and) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	29

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19	Experimental and Theoretical Investigations of Energy Transfer and Hydrogen-Bond Breaking in the Water Dimer. Journal of the American Chemical Society, 2012, 134, 15430-15435.	6.6	89
20	Imaging H₂O Photofragments in the Predissociation of the HClâ‹¯H₂O Hydrogen-Bonded Dimer. Journal of Physical Chemistry A, 2011, 115, 6903-6909.	1.1	27
21	Communication: Determination of the bond dissociation energy (D) of the water dimer, (H2O)2, by velocity map imaging. Journal of Chemical Physics, 2011, 134, 211101.	1.2	205
22	Imaging the State-Specific Vibrational Predissociation of the Hydrogen Chlorideâ‹¯Water Hydrogen-Bonded Dimer. Journal of Physical Chemistry A, 2010, 114, 9774-9781.	1.1	21
23	Imaging the State-Specific Vibrational Predissociation of the Ammoniaâ‹¯Water Hydrogen-Bonded Dimer. Journal of Physical Chemistry A, 2009, 113, 10174-10183.	1.1	36
24	Photofragment Spectroscopy and Predissociation Dynamics of Weakly Bound Molecules. Annual Review of Physical Chemistry, 2009, 60, 39-59.	4.8	23
25	Interacting Rydberg and valence states in radicals and molecules: experimental and theoretical studies. International Reviews in Physical Chemistry, 2009, 28, 267-308.	0.9	95
26	Effect of Hyperconjugation on Ionization Energies of Hydroxyalkyl Radicals. Journal of Physical Chemistry A, 2008, 112, 9965-9969.	1.1	14
27	Multiphoton Ionization of Gaseous Molecules. Advances in Chemical Physics, 2007, , 1-29.	0.3	8
28	The mechanism of H-bond rupture: the vibrational pre-dissociation of C2H2â€“HCl and C2H2â€“DCl. Physical Chemistry Chemical Physics, 2007, 9, 6241.	1.3	18
29	Imaging the State-Specific Vibrational Predissociation of the C2H2â‹¯NH3Hydrogen-Bonded Dimer. Journal of Physical Chemistry A, 2007, 111, 7589-7598.	1.1	25
30	Electronic Luminescence Resulting from Infrared Multiple Photon Excitation. Advances in Chemical Physics, 2007, , 679-711.	0.3	4
31	Competitive Câ€“H and Oâ€“D bond fission channels in the UV photodissociation of the deuterated hydroxymethyl radical CH2OD. Journal of Chemical Physics, 2004, 120, 6524-6530.	1.2	27
32	Rotationally Resolved Infrared Spectroscopy of the Hydroxymethyl Radical (CH2OH)â€. Journal of Physical Chemistry A, 2004, 108, 7903-7908.	1.1	23
33	Photodissociation of the Hydroxymethyl Radical from the 22Aâ€˜Ãâ€˜(3pz) State:Â H2CO and HCOH Productsâ€. Journal of Physical Chemistry A, 2004, 108, 9847-9852.	1.1	20
34	Oâ€“D bond dissociation from the 3s state of deuterated hydroxymethyl radical (CH2OD). Journal of Chemical Physics, 2003, 118, 9623-9628.	1.2	23
35	Rydbergâ€“valence interactions in CH2Clâ†’CH2+Cl photodissociation: Dependence of absorption probability on ground state vibrational excitation. Journal of Chemical Physics, 2003, 118, 9233-9240.	1.2	15
36	Exit channel dynamics in the ultraviolet photodissociation of the NO dimer: (NO)2â†’NO(Aâ€Š2Î£+)+NO(Xâ€Š2Î). Journal of Chemical Physics, 2003, 119, 7197-7205.	1.2	31

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37	Photodissociative spectroscopy of the hydroxymethyl radical (CH2OH) in the 3s and 3px states. Journal of Chemical Physics, 2002, 117, 4820-4824.	1.2	29
38	NO angular distributions in the photodissociation of (NO)2 at 213 nm: Deviations from axial recoil. Journal of Chemical Physics, 2002, 117, 2568-2577.	1.2	36
39	Reconstruction of Abel-transformable images: The Gaussian basis-set expansion Abel transform method. Review of Scientific Instruments, 2002, 73, 2634-2642.	0.6	827
40	Competitive Pathways via Nonadiabatic Transitions in Photodissociation. Accounts of Chemical Research, 2001, 34, 625-632.	7.6	41
41	Photodissociation dynamics of the CH2Cl radical: Ion imaging studies of the Cl+CH2 channel. Journal of Chemical Physics, 2001, 115, 7474-7484.	1.2	18
42	Photoinitiated H2CO unimolecular decomposition: Accessing H+HCO products via S0 and T1 pathways. Journal of Chemical Physics, 2000, 112, 2752-2761.	1.2	59
43	The electronic origin and vibrational levels of the first excited singlet state of isocyanic acid (HNCO). Journal of Chemical Physics, 2000, 112, 6678-6688.	1.2	13
44	Predissociation of the Hydroxymethyl Radical in the 3pzRydberg State:Â Formaldehyde + Hydrogen Atom Channelâ€. Journal of Physical Chemistry A, 2000, 104, 10288-10292.	1.1	27
45	Photoinitiated decomposition of HNCO near the H+NCO threshold: Centrifugal barriers and channel competition. Journal of Chemical Physics, 1999, 110, 10774-10783.	1.2	21
46	Fragment recoil anisotropies in the photoinitiated decomposition of HNCO. Journal of Chemical Physics, 1999, 110, 2059-2068.	1.2	46
47	Trapping-desorption and direct-inelastic scattering of HCl from MgO(100). Chemical Physics Letters, 1998, 284, 164-170.	1.2	16
48	Competition between singlet and triplet channels in the photoinitiated decomposition of HNCO. Journal of Chemical Physics, 1997, 106, 7454-7457.	1.2	32
49	Photofragment imaging of HNCO decomposition: Angular anisotropy and correlated distributions. Journal of Chemical Physics, 1997, 106, 7013-7022.	1.2	39
50	Reaction Dynamics of C(3P) with Chloroform. Journal of Physical Chemistry A, 1997, 101, 5846-5851.	1.1	12
51	Collision-Induced Dissociation of Highly Excited NO2 in the Gas Phase and on MgO (100) Surfaces. ACS Symposium Series, 1997, , 291-303.	0.5	0
52	Photodissociation of HNCO: Three competing pathways. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 469-477.	0.9	29
53	Correlated distributions in the photodissociation of HNCO to NH(X3Î£â¯, a1Î”) + CO(X1Î£+) near the barrier on S1. Chemical Physics Letters, 1997, 276, 316-324.	1.2	48
54	EXPERIMENTAL STUDIES OF RESONANCES IN UNIMOLECULAR DECOMPOSITION. Annual Review of Physical Chemistry, 1996, 47, 495-525.	4.8	59

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55	Competitive photodissociation channels in jetâ€cooled HNCO: Thermochemistry and nearâ€threshold predissociation. Journal of Chemical Physics, 1996, 105, 8111-8116.	1.2	70
56	Molecular Beams Studies of the Dissociation of Highly Excited NO2Induced by Molecular Colliders. The Journal of Physical Chemistry, 1996, 100, 3882-3887.	2.9	7
57	Unimolecular Reaction of NO2:Â Overlapping Resonances, Fluctuations, and the Transition State. The Journal of Physical Chemistry, 1996, 100, 474-487.	2.9	63
58	Final stateâ€selected spectra in unimolecular reactions: A transitionâ€stateâ€based random matrix model for overlapping resonances. Journal of Chemical Physics, 1995, 102, 8874-8886.	1.2	37
59	Generation of excited state potentials from photofragment spectral lines: Fano profiles in FNO. Journal of Chemical Physics, 1995, 103, 4150-4156.	1.2	9
60	Fluctuations in the unimolecular decomposition of jetâ€cooled NO2: Implications for overlapping resonances and the transition state. Journal of Chemical Physics, 1994, 100, 4256-4271.	1.2	48
61	365 nm photonâ€induced dynamics of ClNO adsorbed on MgO(100). Journal of Chemical Physics, 1994, 100, 9228-9237.	1.2	12
62	Double resonance infraredâ€“visible photofragment yield spectroscopy of NO2: Interferences among overlapping quasibound levels. Journal of Chemical Physics, 1994, 101, 5683-5699.	1.2	42
63	The monoenergetic unimolecular reaction of expansionâ€cooled NO2: NO product state distributions at excess energies 0â€“3000 cmâ^'1. Journal of Chemical Physics, 1993, 99, 1093-1108.	1.2	100
64	Fluctuations in stateâ€selected unimolecular decomposition: Doubleâ€resonance infrared visible photofragment yield spectroscopy of NO2. Journal of Chemical Physics, 1993, 99, 4860-4863.	1.2	24
65	Experimental probes of dissociative states: Fano profiles in the stateâ€specific photodissociation of FNO. Journal of Chemical Physics, 1992, 97, 5246-5249.	1.2	40
66	Ab initio calculations of dissociative electronic states of ClCN: Implications to the photodissociation dynamics of the cyanogen halides. Journal of Chemical Physics, 1991, 94, 331-340.	1.2	7
67	NO(Xâ€‰2Î) product state distributions in moleculeâ€“surface collisionâ€induced dissociation: Direct inelastic scattering of n,iâ€C3F7NO from MgO(100) at Eincidentâ‰7.0 eV. Journal of Chemical Physics, 1991, 94, 2330-2345.	1.2	17
68	The influence of excitedâ€state vibrations on fragment state distributions: The photodissociation of NOCl on T1(1â€‰3Aâ€˜). Journal of Chemical Physics, 1990, 92, 4296-4307.	1.2	46
69	Photodissociation dynamics of jetâ€cooled ClNO on S1(1â€‰1Aâ€˜): An experimental study. Journal of Chemical Physics, 1990, 93, 1107-1115.	1.2	41
70	State-selective photodissociation dynamics of NOCl: Scalar and vector properties. AIP Conference Proceedings, 1989, , .	0.3	0
71	The electronic spectrum of NOCl: Photofragment spectroscopy, vector correlations, and ab initio calculations. Journal of Chemical Physics, 1989, 90, 3903-3914.	1.2	70
72	Moleculeâ€“surface dissociative scattering of nâ€C3F7NO from MgO(100) at hyperthermal energies: Nascent NO (Xâ€‰2Î). Journal of Chemical Physics, 1989, 90, 3883-3885.	1.2	4

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73	Correlated product state distributions in the unimolecular reaction of NCNO. Journal of Chemical Physics, 1989, 90, 209-218.	1.2	37
74	H+ClCNâ†'HCl+CN: Product excitations and reaction mechanism at Ec.m. â‰,21.6 kcalâ€‰molâ^'1. Journal of Chemical Physics, 1988, 89, 1977-1985.	1.2	21
75	Stateâ€selective photodissociation dynamics of NOCl: The influence of excited state bending and stretching vibrations. Journal of Chemical Physics, 1988, 89, 6547-6548.	1.2	15
76	Reply to the â€˜â€˜Comment on: â€˜Nascent product excitations in unimolecular reactions: The separate statistical ensembles methodâ€™â€‰â€™â€™. Journal of Chemical Physics, 1986, 85, 1710-1711.	1.2	15
77	Photodissociation of jetâ€cooled (CH3)3CNO: Temporal separation of radiationless transitions and unimolecular reactions. Journal of Chemical Physics, 1986, 84, 3573-3574.	1.2	11
78	The unimolecular reaction of tâ€BuNO on singlet and triplet surfaces: Spectroscopy, realâ€time rate measurements, and NO energy distributions. Journal of Chemical Physics, 1986, 85, 5763-5773.	1.2	44
79	The 266 nm photolysis of ICN: Recoil velocity anisotropies and nascent E,V,R,T excitations for the CN+I(2P3/2) and CN+I(2P1/2) channels. Journal of Chemical Physics, 1985, 82, 3885-3893.	1.2	176
80	The monoenergetic vibrational predissociation of expansion cooled NCNO: Nascent CN(V,R) distributions at excess energies 0â€"5000 cmâ^'1. Journal of Chemical Physics, 1985, 82, 2608-2619.	1.2	72
81	NCNOâ€‰â†'â€‰CN+NO: Complete NO(E,â€‰V,â€‰R) and CN(V,â€‰R) nascent population distributions from wellâ€characterized monoenergetic unimolecular reactions. Journal of Chemical Physics, 1985, 83, 5573-5580.	1.2	83
82	Nascent product excitations in unimolecular reactions: The separate statistical ensembles method. Journal of Chemical Physics, 1985, 83, 5581-5588.	1.2	149
83	The rotationally resolved Aì ƒâ€‰1Aâ€³â†Xì ƒâ€‰1Aâ€² spectrum of expansion cooled NCNO: Vibrational fundamentals, rotational constants, and perturbations. Journal of Chemical Physics, 1984, 81, 4333-4340.	1.2	28
84	The 540â€"900 nm photodissociation of 300 K NCNO: Oneâ€and twoâ€photon processes. Journal of Chemical Physics, 1984, 81, 653-660.	1.2	38
85	Stepwise Excitation Processes in Photodissociation and Detection. Israel Journal of Chemistry, 1984, 24, 259-265.	1.0	0
86	Dissociation of benzylamine ions following infrared multiple photon absorption, electron impact	1.2	8
87	Simultaneous oneâ€and twoâ€photon processes in the photodissociation of NCNO using a tunable dye laser. Journal of Chemical Physics, 1983, 79, 2088-2090.	1.2	18
88	Monitoring UF6 photodissociation via laser multiphoton ionization. Applied Physics Letters, 1981, 39, 201-203.	1.5	20
89	Kinetics of free radicals generated by IR laser photolysis. IV. Intersystem crossings and reactions of C2(Xâ€‰1Î£+g) and C2(aâ€‰3Îu) in the gaseous phase. Journal of Chemical Physics, 1980, 73, 2280-2286.	1.2	83
90	The kinetics of free radicals generated by IR laser photolysis. III. Intersystem crossing between C2(Xâ€‰1Î£g+) and C2(aâ€‰3Îu) induced by collisions with oxygen. Journal of Chemical Physics, 1980, 73, 829-835.	1.2	39