Curt Wittig

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115 3,445 35 54 h-index g-index citations papers 4.67 3,518 117 3.4 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
115	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. <i>Journal of Chemical Physics</i> , 1985 , 82, 3885-3893	3.9	172
114	The Landau-Zener formula. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8428-30	3.4	158
113	Nascent product excitations in unimolecular reactions: The separate statistical ensembles method. Journal of Chemical Physics, 1985 , 83, 5581-5588	3.9	136
112	Kinetic and internal energy distributions via velocity-aligned Doppler spectroscopy: The 193 nm photodissociation of H2S and HBr. <i>Journal of Chemical Physics</i> , 1987 , 87, 1062-1069	3.9	112
111	Orienting reactants using van der Waals precursors: OCO ? HBr+hြnf(OCO <- H}+Br -ncO+OH+Br. Journal of Chemical Physics, 1986 , 84, 727-738	3.9	109
110	Subpicosecond resolution studies of the H+CO2-ੴO+OH reaction photoinitiated in CO2⊞I complexes. <i>Journal of Chemical Physics</i> , 1993 , 99, 6553-6561	3.9	89
109	Probing the NO2-MO+O transition state via time resolved unimolecular decomposition. <i>Journal of Chemical Physics</i> , 1993 , 99, 3420-3435	3.9	85
108	The use of van der Waals forces to orient chemical reactants: The H+CO2 reaction. <i>Journal of Chemical Physics</i> , 1985 , 83, 444-445	3.9	84
107	Kinetics of free radicals generated by IR laser photolysis. IV. Intersystem crossings and reactions of C2(X 1⊞g) and C2(a 3Ū) in the gaseous phase. <i>Journal of Chemical Physics</i> , 1980 , 73, 2280-2286	3.9	83
106	NCNO -ran+NO: Complete NO(E, V, R) and CN(V, R) nascent population distributions from well-characterized monoenergetic unimolecular reactions. <i>Journal of Chemical Physics</i> , 1985 , 83, 5573-	5 <i>5</i> 80	75
105	Infrared absorption spectroscopy of CO2HX complexes using the CO2 asymmetric stretch chromophore: CO2HF(DF) and CO2HCl(DCl) linear and CO2HBr bent equilibrium geometries. <i>Journal of Chemical Physics</i> , 1990 , 92, 943-958	3.9	74
104	IR multiple photon dissociation of fluorinated ethanes and ethylenes: HF vibrational energy distributions. <i>Journal of Chemical Physics</i> , 1980 , 72, 1694-1700	3.9	72
103	Optically pumped molecular lasers in the 11🛭 7-th region. <i>Journal of Applied Physics</i> , 1978 , 49, 61-64	2.5	71
102	Infrared molecular lasers pumped by electronic-vibrational energy transfer from Br(42P1/2): CO2, N2O, HCN, and C2H2 . <i>Applied Physics Letters</i> , 1975 , 27, 305-307	3.4	69
101	Photodissociation of HCl at 193.3 nm: SpinBrbit branching ratio. <i>Journal of Chemical Physics</i> , 1997 , 107, 1403-1405	3.9	67
100	The monoenergetic vibrational predissociation of expansion cooled NCNO: Nascent CN(V,R) distributions at excess energies 05000 cm . <i>Journal of Chemical Physics</i> , 1985 , 82, 2608-2619	3.9	66
99	Propensities toward C2H(A 2] in acetylene photodissociation. <i>Journal of Chemical Physics</i> , 1995 , 103, 6815-6818	3.9	65

98	CF4 and NOCl molecular lasers operating in the 16-fh region. Applied Physics Letters, 1977, 30, 420-422	3.4	63
97	Photoinitiated H2CO unimolecular decomposition: Accessing H+HCO products via S0 and T1 pathways. <i>Journal of Chemical Physics</i> , 2000 , 112, 2752-2761	3.9	56
96	Subpicosecond OH production from photoexcited CO2HI complexes. <i>Journal of Chemical Physics</i> , 1992 , 97, 9486-9489	3.9	52
95	Infrared photodissociation of fluorinated ethanes and ethylenes: Collisional effects in the multiple photon absorption process. <i>Journal of Chemical Physics</i> , 1978 , 69, 4201-4205	3.9	52
94	Photodissociation of methanol at 193.3 nm: Translational energy release spectra. <i>Journal of Chemical Physics</i> , 1994 , 101, 5665-5671	3.9	49
93	Infrared absorption spectroscopy of the CO2Ar complex in the 2376 cmI combination band region: The intermolecular bend. <i>Journal of Chemical Physics</i> , 1991 , 94, 233-238	3.9	49
92	Velocity-aligned Doppler spectroscopy. <i>Journal of Chemical Physics</i> , 1989 , 90, 2692-2702	3.9	49
91	Photoinitiated Reactions in Weakly Bonded Complexes. Advances in Photochemistry, 2007, 249-363		46
90	The density of reactive levels in NO2 unimolecular decomposition. <i>Journal of Chemical Physics</i> , 1994 , 101, 4809-4818	3.9	45
89	Electronic Librational energy transfer from Br(4 2P1/2) to HCN, and deactivation of HCN (001). Journal of Chemical Physics, 1976 , 65, 1872-1875	3.9	44
88	Optical time of flight spectroscopy: A method for the direct state selective measurement of photofragment recoil energies. <i>Journal of Chemical Physics</i> , 1978 , 69, 3854-3857	3.9	44
87	An experimental study of HF photodissociation: SpinBrbit branching ratio and infrared alignment. <i>Journal of Chemical Physics</i> , 1996 , 104, 7027-7035	3.9	43
86	Photoinitiated H- and D-atom reactions with N2O in the gas phase and in N2OHI and N2ODI complexes. <i>Journal of Chemical Physics</i> , 1992 , 97, 2536-2547	3.9	40
85	The unimolecular reaction of t-BuNO on singlet and triplet surfaces: Spectroscopy, real-time rate measurements, and NO energy distributions. <i>Journal of Chemical Physics</i> , 1986 , 85, 5763-5773	3.9	40
84	Unimolecular decomposition of NO3: The NO+O2 threshold regime. <i>Journal of Chemical Physics</i> , 1996 , 105, 6807-6817	3.9	38
83	Active mode locking of the XeF laser. <i>Applied Physics Letters</i> , 1976 , 29, 424-425	3.4	38
82	Electronic-to-vibrational pumped CO2 laser operating at 4.3, 10.6, and 14.1 fb. <i>Journal of Applied Physics</i> , 1976 , 47, 1051-1054	2.5	37
81	Calculated rotational spectrum of ArCO from an ab initio potential energy surface: A very floppy van der Waals molecule. <i>Journal of Chemical Physics</i> , 1994 , 101, 1006-1018	3.9	35

80	Infrared absorption spectroscopy of gas-phase N2OHX (X=F, Cl, Br) weakly bonded complexes utilizing the N2O B chromophore. <i>Journal of Chemical Physics</i> , 1990 , 93, 183-196	3.9	35
79	The kinetics of free radicals generated by IR laser photolysis. III. Intersystem crossing between C2(X 1g+) and C2(a 3D) induced by collisions with oxygen. <i>Journal of Chemical Physics</i> , 1980 , 73, 829-83	5 ^{3.9}	35
78	The 540000 nm photodissociation of 300 K NCNO: One- and two-photon processes. <i>Journal of Chemical Physics</i> , 1984 , 81, 653-660	3.9	34
77	Photoinitiated H+CO2-th+CO reactions: OH distributions and three-body interactions in CO2H2S complexes. <i>Journal of Chemical Physics</i> , 1988 , 88, 2841-2843	3.9	32
76	The unimolecular reaction of isolated CF3CN: Energy disposal into CN product degrees of freedom. Journal of Chemical Physics, 1982 , 76, 997-1006	3.9	31
75	Electronic to vibrational energy transfer from Br(42P1/2) to CO2, COS, and CS2. <i>Journal of Chemical Physics</i> , 1977 , 67, 4454-4462	3.9	31
74	Correlated product state distributions in the unimolecular reaction of NCNO. <i>Journal of Chemical Physics</i> , 1989 , 90, 209-218	3.9	30
73	ir photolysis of SeF6: Isotope separation and dissociation enhancement using NH3 and CO2 lasers. <i>Journal of Chemical Physics</i> , 1978 , 69, 4756-4761	3.9	29
72	Unimolecular Reaction Rate Constants of NO2 Just above D0. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 10268-10273	2.8	28
71	Infrared spectroscopy of CO2D(H)Br: Molecular structure and its reliability. <i>Journal of Chemical Physics</i> , 1992 , 97, 5392-5402	3.9	26
70	CO internal excitation from the reaction: H+CO2-&O+OH. <i>Journal of Chemical Physics</i> , 1992 , 96, 4378-43	3869	26
69	The rotationally resolved A 1A?<-X 1A? spectrum of expansion cooled NCNO: Vibrational fundamentals, rotational constants, and perturbations. <i>Journal of Chemical Physics</i> , 1984 , 81, 4333-434	o ^{3.9}	26
68	The production of CN(X $2H$) and C2(a $3U$) via the infrared multiple photon dissociation of C2H3CN. <i>Journal of Chemical Physics</i> , 1980 , 72, 3789-3795	3.9	26
67	An experimental investigation of the effect of rotation on the rate of unimolecular decomposition of NO2. <i>Chemical Physics Letters</i> , 1997 , 272, 257-264	2.5	23
66	Amorphous solid water films: transport and guest-host interactions with CO2 and N2O dopants. Journal of Physical Chemistry A, 2006 , 110, 2097-105	2.8	23
65	Isotopically selective ir photodissociation of SeF6. <i>Applied Physics Letters</i> , 1978 , 32, 236-238	3.4	23
64	Vibrationally resolved translational energy release spectra from the ultraviolet photodissociation of methyl mercaptan. <i>Journal of Chemical Physics</i> , 1993 , 99, 6600-6606	3.9	22
63	Trapping and release of CO2 guest molecules by amorphous ice. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 13365-70	2.8	21

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57	Temperature programmed desorption and infrared spectroscopic studies of thin water films on MgO(100). <i>Chemical Physics Letters</i> , 2005 , 404, 19-24	2.5	17	
56	NO(X 2pproduct state distributions in moleculeBurface collision-induced dissociation: Direct inelastic scattering of n,i-C3F7NO from MgO(100) at EincidentII.0 eV. <i>Journal of Chemical Physics</i> , 1991 , 94, 2330-2345	3.9	17	
55	PH2 internal energy distribution produced by the 193 nm photodissociation of PH3. <i>Journal of Chemical Physics</i> , 1988 , 88, 879-887	3.9	17	
54	H2O, NO, and N2O infrared lasers pumped directly and indirectly by electronic-vibrational energy transfer. <i>Journal of Applied Physics</i> , 1977 , 48, 230-233	2.5	17	
53	Survival of HCl(v=2) in trapping-desorption from MgO(100). Chemical Physics Letters, 2000, 326, 11-21	2.5	16	
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51	16-th laser oscillation in propyne. <i>Applied Physics Letters</i> , 1981 , 39, 6-8	3.4	15	
50	Simultaneous one- and two-photon processes in the photodissociation of NCNO using a tunable dye laser. <i>Journal of Chemical Physics</i> , 1983 , 79, 2088-2090	3.9	14	
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41	Nascent PO(X 2¶E,V,R,T excitations from collision-free IR laser photolysis: Specificity toward the PO(X 2¶/2) spin-orbit state. <i>Journal of Chemical Physics</i> , 1985 , 82, 1376-1384	3.9	11
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38	Temperature dependence of the quenching of Br(4 2P1/2) by CO2 and HCl with accompanying vibrational excitation. <i>Journal of Chemical Physics</i> , 1978 , 68, 3308-3309	3.9	10
37	Electronic to vibrational energy transfer, from Br(42P1/2) to H2O. <i>Journal of Chemical Physics</i> , 1978 , 68, 2109-2113	3.9	10
36	Gas Trapping in Ice and Its Release upon Warming. Astrophysics and Space Science Library, 2013, 487-499	00.3	9
35	Photoexcitation of NO2in HenDroplets above the Gas-Phase Dissociation Threshold <i>Journal of Physical Chemistry A</i> , 2004 , 108, 9841-9846	2.8	9
34	Heavy hydrides: H2Te ultraviolet photochemistry. <i>Journal of Chemical Physics</i> , 2005 , 123, 084312	3.9	9
33	Photodissociation of jet-cooled (CH3)3CNO: Temporal separation of radiationless transitions and unimolecular reactions. <i>Journal of Chemical Physics</i> , 1986 , 84, 3573-3574	3.9	9
32	Formation of He via electron impact of helium droplets. <i>Journal of Chemical Physics</i> , 2018 , 148, 044302	3.9	8
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29	Reactions of hot deuterium atoms with OCS in the gas phase and in OCSDI complexes. <i>Journal of Chemical Physics</i> , 1993 , 99, 6545-6552	3.9	7
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26	Temperature dependence of electronic to vibrational energy transfer from Br(42P1/2) to 12CO2 and 13CO2. <i>Journal of Chemical Physics</i> , 1978 , 69, 3729-3734	3.9	7
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24	Multiphoton Ionization of Gaseous Molecules. Advances in Chemical Physics, 2007, 1-29		6
23	Picosecond absorption recovery of diphenyl butadiene. <i>IEEE Journal of Quantum Electronics</i> , 1979 , 15, 1202-1205	2	6
22	Photoionization of tris(2-phenylpyridine)iridium. <i>Molecular Physics</i> , 2012 , 110, 1893-1908	1.7	5
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18	Electronic Luminescence Resulting from Infrared Multiple Photon Excitation. <i>Advances in Chemical Physics</i> , 2007 , 679-711		4
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16	Intramolecular quantum chaos in doped helium nanodroplets. Chemical Physics Letters, 2003, 375, 253-2	2 6 05	4
15	MoleculeBurface dissociative scattering of n-C3F7NO from MgO(100) at hyperthermal energies: Nascent NO (X 2¶ <i>Journal of Chemical Physics</i> , 1989 , 90, 3883-3885	3.9	4
14	Optically pumped NSF molecular laser. <i>Applied Physics Letters</i> , 1980 , 37, 592-594	3.4	4
13	Line-tunable CO2 laser operating in the region 2280🛭 360 cm 🗗 pumped by energy transfer from Br(42P1/2). <i>Journal of Applied Physics</i> , 1977 , 48, 3665-3668	2.5	4
12	Conversion of He(2 S) to He(al) in Liquid Helium. Journal of Physical Chemistry Letters, 2018, 9, 6017-602	2 8 .4	4
11	Photoinitiated Dynamics in Amorphous Solid Water via Nanoimprint Lithography. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 4968-4981	2.8	2
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9	Amorphous Solid Water: Pulsed Heating of Buried N2O4. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 145	54 88 14	560

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7	High-energy pulsed CO chemical laser. <i>Journal of Applied Physics</i> , 1975 , 46, 5191-5193	2.5	1
6	Tribute to Hanna Reisler. Journal of Physical Chemistry A, 2019, 123, 6381-6383	2.8	
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4	Collision-Induced Dissociation of Highly Excited NO2 in the Gas Phase and on MgO (100) Surfaces. <i>ACS Symposium Series</i> , 1997 , 291-303	0.4	
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2	Stepwise Excitation Processes in Photodissociation and Detection. <i>Israel Journal of Chemistry</i> , 1984 , 24, 259-265	3.4	
1	NaCl surface reaction in chemical-laser devices. <i>IEEE Journal of Quantum Electronics</i> , 1975 , 11, 110-111	2	