Curt Wittig

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
115	Tribute to Hanna Reisler. *Journal of Physical Chemistry A*, **2019**, 123, 6381-6383	2.8	
114	Triplet Excitons in Small Helium Clusters. *Journal of Physical Chemistry A*, **2019**, 123, 6113-6122	2.8	
113	Formation of He via electron impact of helium droplets. *Journal of Chemical Physics*, **2018**, 148, 044302	3.9	8
112	Conversion of He(2 S) to He(a) in Liquid Helium. *Journal of Physical Chemistry Letters*, **2018**, 9, 6017-6023	5.4	4
111	Photoinitiated Dynamics in Amorphous Solid Water via Nanoimprint Lithography. *Journal of Physical Chemistry A*, **2017**, 121, 4968-4981	2.8	2
110	Amorphous Solid Water: Pulsed Heating of Buried N2O4. *Journal of Physical Chemistry C*, **2015**, 119, 14548-14560	4.8	10
109	Gas Trapping in Ice and Its Release upon Warming. *Astrophysics and Space Science Library*, **2013**, 487-499	0.3	9
108	Geometric phase and gauge connection in polyatomic molecules. *Physical Chemistry Chemical Physics*, **2012**, 14, 6409-32	3.6	12
107	Amorphous Solid Water (ASW): Pulsed Laser Ablation of ASW/CO2 Thin Films. *Journal of Physical Chemistry C*, **2012**, 116, 563-569	3.8	6
106	Photoionization of tris(2-phenylpyridine)iridium. *Molecular Physics*, **2012**, 110, 1893-1908	1.7	5
105	Electronic structure of tris(2-phenylpyridine)iridium: electronically excited and ionized states. *Molecular Physics*, **2012**, 110, 1849-1862	1.7	18
104	Photon and electron spins. *Journal of Physical Chemistry A*, **2009**, 113, 15320-7	2.8	4
103	Statistics of indistinguishable particles. *Journal of Physical Chemistry A*, **2009**, 113, 7244-52	2.8	2
102	Trapping and release of CO2 guest molecules by amorphous ice. *Journal of Physical Chemistry A*, **2007**, 111, 13365-70	2.8	21
101	Photoinitiated Reactions in Weakly Bonded Complexes. *Advances in Photochemistry*, **2007**, 249-363		46
100	Electronic Luminescence Resulting from Infrared Multiple Photon Excitation. *Advances in Chemical Physics*, **2007**, 679-711		4
99	Multiphoton Ionization of Gaseous Molecules. *Advances in Chemical Physics*, **2007**, 1-29		6

98	Multiple photon excitation and ionization of NO in and on helium droplets. *Journal of Chemical Physics*, **2006**, 124, 214308	3.9	11
97	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
96	Effective Hamiltonian models and unimolecular decomposition. *Journal of Physical Chemistry B*, **2006**, 110, 19850-60	3.4	4
95	The Landau-Zener formula. *Journal of Physical Chemistry B*, **2005**, 109, 8428-30	3.4	158
94	Temperature programmed desorption and infrared spectroscopic studies of thin water films on MgO(100). *Chemical Physics Letters*, **2005**, 404, 19-24	2.5	17
93	Heavy hydrides: H2Te ultraviolet photochemistry. *Journal of Chemical Physics*, **2005**, 123, 084312	3.9	9
92	On the ultraviolet photodissociation of H(2)Te. *Journal of Chemical Physics*, **2004**, 121, 9389-95	3.9	10
91	Photoexcitation of NO2in HenDroplets above the Gas-Phase Dissociation Threshold *Journal of Physical Chemistry A*, **2004**, 108, 9841-9846	2.8	9
90	Intramolecular quantum chaos in doped helium nanodroplets. *Chemical Physics Letters*, **2003**, 375, 253-260	2.5	4
89	Intracluster superelastic scattering via sequential photodissociation in small HI clusters. *Journal of Chemical Physics*, **2003**, 119, 928-938	3.9	13
88	Rate coefficients for photoinitiated NO2 unimolecular decomposition: energy dependence in the threshold regime. *Chemical Physics Letters*, **2002**, 358, 71-76	2.5	20
87	The intriguing near-ultraviolet photochemistry of H2Te. *Chemical Physics Letters*, **2002**, 362, 483-490	2.5	8
86	Survival of HCl(v=2) in trapping-desorption from MgO(100). *Chemical Physics Letters*, **2000**, 326, 11-21	2.5	16
85	Photoinitiated H2CO unimolecular decomposition: Accessing H+HCO products via S0 and T1 pathways. *Journal of Chemical Physics*, **2000**, 112, 2752-2761	3.9	56
84	Photoinitiated unimolecular decomposition of NO2: Rotational dependence of the dissociation rate. *Journal of Chemical Physics*, **1999**, 111, 9267-9279	3.9	21
83	Unimolecular Reaction Rate Constants of NO2 Just above D0. *Journal of Physical Chemistry A*, **1999**, 103, 10268-10273	2.8	28
82	Quenching of interconversion tunneling: The free HCl stretch first overtone of (HCl)2. *Journal of Chemical Physics*, **1998**, 108, 9614-9616	3.9	13
81	Photodissociation of HCl at 193.3 nm: Spin□rbit branching ratio. *Journal of Chemical Physics*, **1997**, 107, 1403-1405	3.9	67

80	Ultrafast OH production in clusters containing N2O and HI. *Journal of Chemical Physics*, **1997**, 107, 9457-9463	3.9	4
79	Collision-Induced Dissociation of Highly Excited NO2 in the Gas Phase and on MgO (100) Surfaces. *ACS Symposium Series*, **1997**, 291-303	0.4	
78	An experimental investigation of the effect of rotation on the rate of unimolecular decomposition of NO2. *Chemical Physics Letters*, **1997**, 272, 257-264	2.5	23
77	An experimental study of HF photodissociation: Spin□rbit branching ratio and infrared alignment. *Journal of Chemical Physics*, **1996**, 104, 7027-7035	3.9	43
76	Unimolecular decomposition of NO3: The NO+O2 threshold regime. *Journal of Chemical Physics*, **1996**, 105, 6807-6817	3.9	38
75	Propensities toward C2H(A 2□in acetylene photodissociation. *Journal of Chemical Physics*, **1995**, 103, 6815-6818	3.9	65
74	365 nm photon-induced dynamics of ClNO adsorbed on MgO(100). *Journal of Chemical Physics*, **1994**, 100, 9228-9237	3.9	12
73	Photodissociation of methanol at 193.3 nm: Translational energy release spectra. *Journal of Chemical Physics*, **1994**, 101, 5665-5671	3.9	49
72	The density of reactive levels in NO2 unimolecular decomposition. *Journal of Chemical Physics*, **1994**, 101, 4809-4818	3.9	45
71	Calculated rotational spectrum of Ar...CO from an ab initio potential energy surface: A very floppy van der Waals molecule. *Journal of Chemical Physics*, **1994**, 101, 1006-1018	3.9	35
70	Ring opening reaction dynamics in the reaction of hydrogen atoms with ethylene oxide. *Journal of Chemical Physics*, **1994**, 101, 6615-6624	3.9	
69	Comment on □State-specific unimolecular reaction of NO2 just above the dissociation threshold□[J. Chem. Phys. 99, 254 (1993)]. *Journal of Chemical Physics*, **1994**, 100, 4714-4715	3.9	12
68	Probing the NO2-□NO+O transition state via time resolved unimolecular decomposition. *Journal of Chemical Physics*, **1993**, 99, 3420-3435	3.9	85
67	Vibrationally resolved translational energy release spectra from the ultraviolet photodissociation of methyl mercaptan. *Journal of Chemical Physics*, **1993**, 99, 6600-6606	3.9	22
66	Reactions of hot deuterium atoms with OCS in the gas phase and in OCS□I complexes. *Journal of Chemical Physics*, **1993**, 99, 6545-6552	3.9	7
65	Subpicosecond resolution studies of the H+CO2-□CO+OH reaction photoinitiated in CO2□I complexes. *Journal of Chemical Physics*, **1993**, 99, 6553-6561	3.9	89
64	Subpicosecond OH production from photoexcited CO2□I complexes. *Journal of Chemical Physics*, **1992**, 97, 9486-9489	3.9	52
63	Infrared spectroscopy of CO2□(H)Br: Molecular structure and its reliability. *Journal of Chemical Physics*, **1992**, 97, 5392-5402	3.9	26

62	CO internal excitation from the reaction: H+CO2-GCO+OH. *Journal of Chemical Physics*, **1992**, 96, 4378-4386	3.9	26
61	Photoinitiated H- and D-atom reactions with N2O in the gas phase and in N2OHI and N2ODI complexes. *Journal of Chemical Physics*, **1992**, 97, 2536-2547	3.9	40
60	Infrared absorption spectroscopy of the CO2Ar complex in the 2376 cm1 combination band region: The intermolecular bend. *Journal of Chemical Physics*, **1991**, 94, 233-238	3.9	49
59	NO(X 2)product state distributions in moleculesurface collision-induced dissociation: Direct inelastic scattering of n,i-C3F7NO from MgO(100) at Eincident7.0 eV. *Journal of Chemical Physics*, **1991**, 94, 2330-2345	3.9	17
58	Infrared absorption spectroscopy of gas-phase N2OHX (X=F, Cl, Br) weakly bonded complexes utilizing the N2O 3 chromophore. *Journal of Chemical Physics*, **1990**, 93, 183-196	3.9	35
57	Infrared absorption spectroscopy of CO2HX complexes using the CO2 asymmetric stretch chromophore: CO2HF(DF) and CO2HCl(DCl) linear and CO2HBr bent equilibrium geometries. *Journal of Chemical Physics*, **1990**, 92, 943-958	3.9	74
56	Moleculesurface dissociative scattering of n-C3F7NO from MgO(100) at hyperthermal energies: Nascent NO (X 2) *Journal of Chemical Physics*, **1989**, 90, 3883-3885	3.9	4
55	Correlated product state distributions in the unimolecular reaction of NCNO. *Journal of Chemical Physics*, **1989**, 90, 209-218	3.9	30
54	Velocity-aligned Doppler spectroscopy. *Journal of Chemical Physics*, **1989**, 90, 2692-2702	3.9	49
53	H+ClCN-HCl+CN: Product excitations and reaction mechanism at Ec.m. ?21.6 kcal mol . *Journal of Chemical Physics*, **1988**, 89, 1977-1985	3.9	20
52	Laser-controlled dissociation and ionization pathways in electronically excited AsH3. *Applied Physics Letters*, **1988**, 52, 860-862	3.4	10
51	PH2 internal energy distribution produced by the 193 nm photodissociation of PH3. *Journal of Chemical Physics*, **1988**, 88, 879-887	3.9	17
50	Photoinitiated H+CO2-OH+CO reactions: OH distributions and three-body interactions in CO2H2S complexes. *Journal of Chemical Physics*, **1988**, 88, 2841-2843	3.9	32
49	Kinetic and internal energy distributions via velocity-aligned Doppler spectroscopy: The 193 nm photodissociation of H2S and HBr. *Journal of Chemical Physics*, **1987**, 87, 1062-1069	3.9	112
48	Reply to the Comment on: Nascent product excitations in unimolecular reactions: The separate statistical ensembles method *Journal of Chemical Physics*, **1986**, 85, 1710-1711	3.9	13
47	Photodissociation of jet-cooled (CH3)3CNO: Temporal separation of radiationless transitions and unimolecular reactions. *Journal of Chemical Physics*, **1986**, 84, 3573-3574	3.9	9
46	Orienting reactants using van der Waals precursors: OCO ? HBr+h{OCO <- H}+Br -O+OH+Br. *Journal of Chemical Physics*, **1986**, 84, 727-738	3.9	109
45	The unimolecular reaction of t-BuNO on singlet and triplet surfaces: Spectroscopy, real-time rate measurements, and NO energy distributions. *Journal of Chemical Physics*, **1986**, 85, 5763-5773	3.9	40

44	Nascent PO(X 2Π)E,V,R,T excitations from collision-free IR laser photolysis: Specificity toward the PO(X 2Π1/2) spin-orbit state. *Journal of Chemical Physics*, **1985**, 82, 1376-1384	3.9	11
43	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	3.9	172
42	The monoenergetic vibrational predissociation of expansion cooled NCNO: Nascent CN(V,R) distributions at excess energies 0–5000 cm−1 . *Journal of Chemical Physics*, **1985**, 82, 2608-2619	3.9	66
41	The use of van der Waals forces to orient chemical reactants: The H+CO2 reaction. *Journal of Chemical Physics*, **1985**, 83, 444-445	3.9	84
40	NCNO -rCN+NO: Complete NO(E, V, R) and CN(V, R) nascent population distributions from well-characterized monoenergetic unimolecular reactions. *Journal of Chemical Physics*, **1985**, 83, 5573-5580	3.9	75
39	The unimolecular reaction of vinyl fluoridea). *Journal of Chemical Physics*, **1985**, 82, 1332-1337	3.9	8
38	Nascent product excitations in unimolecular reactions: The separate statistical ensembles method. *Journal of Chemical Physics*, **1985**, 83, 5581-5588	3.9	136
37	The rotationally resolved A 1A?<-X 1A? spectrum of expansion cooled NCNO: Vibrational fundamentals, rotational constants, and perturbations. *Journal of Chemical Physics*, **1984**, 81, 4333-4340	3.9	26
36	The 540–300 nm photodissociation of 300 K NCNO: One- and two-photon processes. *Journal of Chemical Physics*, **1984**, 81, 653-660	3.9	34
35	Stepwise Excitation Processes in Photodissociation and Detection. *Israel Journal of Chemistry*, **1984**, 24, 259-265	3.4	
34	Dissociation of benzylamine ions following infrared multiple photon absorption, electron impact ionization, and UV multiphoton ionizationa). *Journal of Chemical Physics*, **1983**, 78, 5506-5512	3.9	7
33	Simultaneous one- and two-photon processes in the photodissociation of NCNO using a tunable dye laser. *Journal of Chemical Physics*, **1983**, 79, 2088-2090	3.9	14
32	IR multiple photon dissociation of C2HCl3: Molecular elimination vs bond fission and efficient dissociation of the C2Cl2 producta). *Journal of Chemical Physics*, **1983**, 78, 7169-7174	3.9	7
31	Rotationally relaxed, grating tuned laser oscillations in optically pumped C2D2. *Applied Physics Letters*, **1982**, 41, 107-109	3.4	1
30	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
29	The collisional de-excitation of Hg(6 3P0) by HgBr(X 2Σ, Br(4 2P), and Br2(X 1Σ Evidence for ion-pair formation in the entrance channel. *Journal of Chemical Physics*, **1982**, 76, 3505-3512	3.9	5
28	Vibration quenching of HgBr(X 2Σ1/2). *Applied Physics Letters*, **1981**, 38, 731-733	3.4	12
27	16-μm laser oscillation in propyne. *Applied Physics Letters*, **1981**, 39, 6-8	3.4	15

26	Monitoring UF6 photodissociation via laser multiphoton ionization. *Applied Physics Letters*, **1981**, 39, 201-203	3.4	19
25	Kinetics of free radicals generated by IR laser photolysis. IV. Intersystem crossings and reactions of C2(X 1□g) and C2(a 3□) in the gaseous phase. *Journal of Chemical Physics*, **1980**, 73, 2280-2286	3.9	83
24	IR multiple photon dissociation of fluorinated ethanes and ethylenes: HF vibrational energy distributions. *Journal of Chemical Physics*, **1980**, 72, 1694-1700	3.9	72
23	The kinetics of free radicals generated by IR laser photolysis. III. Intersystem crossing between C2(X 1□+) and C2(a 3□) induced by collisions with oxygen. *Journal of Chemical Physics*, **1980**, 73, 829-835	3.9	35
22	Optically pumped NSF molecular laser. *Applied Physics Letters*, **1980**, 37, 592-594	3.4	4
21	The production of CN(X 2□) and C2(a 3□) via the infrared multiple photon dissociation of C2H3CN. *Journal of Chemical Physics*, **1980**, 72, 3789-3795	3.9	26
20	Picosecond absorption recovery of diphenyl butadiene. *IEEE Journal of Quantum Electronics*, **1979**, 15, 1202-1205	2	6
19	Temperature dependence of the quenching of Br(4 2P1/2) by CO2 and HCl with accompanying vibrational excitation. *Journal of Chemical Physics*, **1978**, 68, 3308-3309	3.9	10
18	Optical time of flight spectroscopy: A method for the direct state selective measurement of photofragment recoil energies. *Journal of Chemical Physics*, **1978**, 69, 3854-3857	3.9	44
17	Temperature dependence of electronic to vibrational energy transfer from Br(42P1/2) to 12CO2 and 13CO2. *Journal of Chemical Physics*, **1978**, 69, 3729-3734	3.9	7
16	Isotopically selective ir photodissociation of SeF6. *Applied Physics Letters*, **1978**, 32, 236-238	3.4	23
15	ir photolysis of SeF6: Isotope separation and dissociation enhancement using NH3 and CO2 lasers. *Journal of Chemical Physics*, **1978**, 69, 4756-4761	3.9	29
14	Electronic to vibrational energy transfer, from Br(42P1/2) to H2O. *Journal of Chemical Physics*, **1978**, 68, 2109-2113	3.9	10
13	Infrared photodissociation of fluorinated ethanes and ethylenes: Collisional effects in the multiple photon absorption process. *Journal of Chemical Physics*, **1978**, 69, 4201-4205	3.9	52
12	Optically pumped molecular lasers in the 11□7-□m region. *Journal of Applied Physics*, **1978**, 49, 61-64	2.5	71
11	H2O, NO, and N2O infrared lasers pumped directly and indirectly by electronic-vibrational energy transfer. *Journal of Applied Physics*, **1977**, 48, 230-233	2.5	17
10	Electronic to vibrational energy transfer from Br(42P1/2) to CO2, COS, and CS2. *Journal of Chemical Physics*, **1977**, 67, 4454-4462	3.9	31
9	CF4 and NOCl molecular lasers operating in the 16-□m region. *Applied Physics Letters*, **1977**, 30, 420-422	3.4	63

8	Line-tunable CO2 laser operating in the region 2280–2360 cm−1 pumped by energy transfer from Br(42P1/2). *Journal of Applied Physics*, **1977**, 48, 3665-3668	2.5	4
7	Electronic–vibrational 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
6	Active mode locking of the XeF laser. *Applied Physics Letters*, **1976**, 29, 424-425	3.4	38
5	Electronic-to-vibrational pumped CO2 laser operating at 4.3, 10.6, and 14.1 μm. *Journal of Applied Physics*, **1976**, 47, 1051-1054	2.5	37
4	Electric-discharge-pumped nitrogen ion laser. *Applied Physics Letters*, **1976**, 29, 580-582	3.4	16
3	Infrared molecular lasers pumped by electronic-vibrational energy transfer from Br(42P1/2): CO2, N2O, HCN, and C2H2 . *Applied Physics Letters*, **1975**, 27, 305-307	3.4	69
2	High-energy pulsed CO chemical laser. *Journal of Applied Physics*, **1975**, 46, 5191-5193	2.5	1
1	NaCl surface reaction in chemical-laser devices. *IEEE Journal of Quantum Electronics*, **1975**, 11, 110-111	2	