Cheuk-Yiu Ng

List of Publications by Citations

262	7,576	42	65
papers	citations	h-index	g-index
273	7,840	4	5.68
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
262	On the Enthalpy of Formation of Hydroxyl Radical and Gas-Phase Bond Dissociation Energies of Water and Hydroxyl. *Journal of Physical Chemistry A*, **2002**, 106, 2727-2747	2.8	422
261	Inhomogeneous RF Fields: A Versatile Tool for the Study of Processes with Slow Ions. *Advances in Chemical Physics*, **2007**, 1-176		314
260	Performance of the vacuum ultraviolet high-resolution and high-flux beamline for chemical dynamics studies at the Advanced Light Source. *Review of Scientific Instruments*, **1997**, 68, 1945-1951	1.7	177
259	Vacuum ultraviolet spectroscopy and chemistry by photoionization and photoelectron methods. *Annual Review of Physical Chemistry*, **2002**, 53, 101-40	15.7	141
258	Photoionization studies of the Kr2 and Ar2 van der Waals molecules. *Journal of Chemical Physics*, **1977**, 66, 446-449	3.9	114
257	Molecular beam photoionization study of CO, N2, and NO dimers and clusters. *Journal of Chemical Physics*, **1981**, 74, 3342-3347	3.9	107
256	Molecular beam photoionization study of carbon disulfide, carbon disulfide dimer and clusters. *Journal of Chemical Physics*, **1980**, 73, 2523-2533	3.9	84
255	High-resolution pulsed field ionization photoelectron–photoion coincidence study of CH4: Accurate 0 K dissociation threshold for CH3+. *Journal of Chemical Physics*, **1999**, 111, 8267-8270	3.9	79
254	Photochemistry. Evidence for direct molecular oxygen production in CO2 photodissociation. *Science*, **2014**, 346, 61-4	33.3	78
253	State-Selected and State-to-State Ion–Molecule Reaction Dynamics. *Journal of Physical Chemistry A*, **2002**, 106, 5953-5966	2.8	78
252	Molecular Beam Photoionization Studies of Molecules and Clusters. *Advances in Chemical Physics*, **2007**, 263-362		76
251	High-resolution pulsed field ionization photoelectron-photoion coincidence spectroscopy using synchrotron radiation. *Review of Scientific Instruments*, **1999**, 70, 3892-3906	1.7	73
250	A photoion–photoelectron coincidence study of Arn (n=2–4). *Journal of Chemical Physics*, **1989**, 90, 2995-3003	3.9	73
249	A 193 nm laser photofragmentation time-of-flight mass spectrometric study of CS2 and CS2 clusters. *Journal of Chemical Physics*, **1988**, 88, 1658-1669	3.9	71
248	Photoionization studies of the diatomic heteronuclear rare gas molecules XeKr, XeAr, and KrAr. *Journal of Chemical Physics*, **1977**, 66, 5737-5743	3.9	71
247	Nonadiabatic Interactions Between Potential Energy Surfaces: Theory and Applications. *Advances in Chemical Physics*,1-71		70
246	High resolution threshold and pulsed field ionization photoelectron spectroscopy using multi-bunch synchrotron radiation. *Review of Scientific Instruments*, **1997**, 68, 1694-1702	1.7	67

245	A time-dependent wave-packet quantum scattering study of the reaction H2+(v = 0-2,4,6;j = 1) + He--> HeH+ + H. *Journal of Chemical Physics*, **2005**, 122, 244322	3.9	64
244	Molecular beam photoionization study of OCS, (OCS)2, (OCS)3, and OCS?CS2. *Journal of Chemical Physics*, **1981**, 74, 1645-1651	3.9	62
243	Vacuum ultraviolet photodissociation and photoionization studies of CH3SH and SH. *Journal of Chemical Physics*, **1991**, 95, 946-954	3.9	60
242	Diabatic Potential Energy Surfaces for Charge-Transfer Processes. *Advances in Chemical Physics*, **2007**, 73-134		58
241	Vacuum ultraviolet photodissociation and photoionization studies of CH3SCH3 and CH3S. *Journal of Chemical Physics*, **1991**, 95, 5014-5023	3.9	57
240	Molecular beam photoionization study of SO2 and (SO2)2. *Journal of Chemical Physics*, **1981**, 75, 1650-1657	3.9	56
239	Photoionization study of CO2, N2O dimers and clusters. *Journal of Chemical Physics*, **1981**, 75, 4921-4926	3.9	55
238	Photoionization study of the Xe2 van der Waals molecule. *Journal of Chemical Physics*, **1976**, 65, 4327-4329	3.9	55
237	Benchmarking state-of-the-art ab initio thermochemical predictions with accurate pulsed-field ionization photoion-photoelectron measurements. *Accounts of Chemical Research*, **2006**, 39, 823-9	24.3	53
236	Rotational-resolved pulsed field ionization photoelectron study of NO+(X 1Σ+,v+=0–2) in the energy range of 9.24–16.80 eV. *Journal of Chemical Physics*, **1999**, 111, 3058-3069	3.9	53
235	A state-to-state study of the electron transfer reactions Ar+(2P3/2,1/2)+N2(X ,v=0)->Ar(1S0) +N+2(X ,v) *Journal of Chemical Physics*, **1986**, 85, 3874-3890	3.9	53
234	Proton affinities of hydrogen halides determined by the molecular beam photoionization method. *Journal of Chemical Physics*, **1979**, 71, 605-609	3.9	53
233	Unimolecular decay pathways of state-selected CO2+ in the internal energy range of 5.26–6.2 eV: An experimental and theoretical study. *Journal of Chemical Physics*, **2003**, 118, 149-163	3.9	52
232	A state-selected study of the ion–molecule reactions O+(4S,2D,2P)+N2. *Journal of Chemical Physics*, **1997**, 106, 1373-1381	3.9	51
231	A 193 nm laser photofragmentation time-of-flight mass spectrometric study of CH3SSCH3, SSCH3, and SCH3. *Journal of Chemical Physics*, **1990**, 92, 6587-6593	3.9	51
230	Accurate ab initio predictions of ionization energies of hydrocarbon radicals: CH2, CH3, C2H, C2H3, C2H5, C3H3, and C3H5. *Journal of Chemical Physics*, **2005**, 122, 224310	3.9	49
229	Rotationally resolved pulsed field ionization photoelectron bands of O2+(X 2Π1/2,3/2g, v+=0–18) in the energy range of 12.05–18.15 eV. *Journal of Chemical Physics*, **1999**, 111, 1905-1916	3.9	49
228	High resolution pulsed field ionization photoelectron spectroscopy using multibunch synchrotron radiation: Time-of-flight selection scheme. *Review of Scientific Instruments*, **1999**, 70, 2615-2621	1.7	47

227	The Classical Trajectory-Surface-Hopping Approach to Charge-Transfer Processes. *Advances in Chemical Physics*,423-483		47
226	A photodissociation study of CH2BrCl in the A-band using the time-sliced ion velocity imaging method. *Journal of Chemical Physics*, **2006**, 124, 034309	3.9	45
225	A state-selected study of the H2+(X,v+=0–7,N+=1)+Ne proton transfer reaction using the pulsed-field ionization-photoelectron-secondary ion coincidence scheme. *Journal of Chemical Physics*, **2003**, 119, 10175-10185	3.9	45
224	A vibrational state-selected study of the reaction H+2(v=0)+H2(v=0)->H+3+H using the tandem photoionization mass spectrometry and radio frequency ion guide methods. *Journal of Chemical Physics*, **1986**, 84, 4317-4326	3.9	45
223	Multiphoton Ionization State Selection: Vibrational-Mode and Rotational-State Control. *Advances in Chemical Physics*, **2007**, 177-212		43
222	Communication: Rovibrationally selected absolute total cross sections for the reaction H2O(+)(X2B1; v1(+)v2(+)v3(+) = 000; N+(Ka+Kc+)) + D2: observation of the rotational enhancement effect. *Journal of Chemical Physics*, **2012**, 137, 241101	3.9	42
221	Absolute state-to-state total cross sections for the reactions N+2(X ,v=0-2) +Ar(1S0)->N2(X,v)+Ar+(2P3/2,1/2). *Journal of Chemical Physics*, **1987**, 86, 170-175	3.9	42
220	High-resolution pulsed field ionization photoelectron-photoion coincidence study of C2H2: Accurate 0 K dissociation threshold for C2H+. *Physical Chemistry Chemical Physics*, **1999**, 1, 5259-5262	3.6	41
219	Adiabatic ionization energy of CH3SSCH3. *Journal of Chemical Physics*, **1993**, 99, 8440-8444	3.9	41
218	Photoionization study of supersonically cooled polyatomic radicals: heat of formation of the thiomethoxy ion (CH3S+). *Journal of the American Chemical Society*, **1991**, 113, 6311-6312	16.4	41
217	A pulsed-field ionization photoelectron secondary ion coincidence study of the H2+ (X,upsilon+=0-15,N+=1)+He proton transfer reaction. *Journal of Chemical Physics*, **2005**, 122, 164301	3.9	40
216	High-resolution energy-selected study of the reaction CH3X+->CH3++X: Accurate thermochemistry for the CH3X/CH3X+ (X=Br, I) system. *Journal of Chemical Physics*, **2001**, 115, 4095-4104	3.9	40
215	The binding energy between NO and NO+. *Journal of Chemical Physics*, **1977**, 66, 3985-3987	3.9	40
214	State-selected and state-to-state photoionization study of trichloroethene using the two-color infrared-vacuum ultraviolet scheme. *Journal of Chemical Physics*, **2003**, 119, 9333-9336	3.9	39
213	Pulsed field ionization-photoelectron bands for CO2+(A 2Π and B 2Σ+) in the energy range of 17.2–19.0 eV: An experimental and theoretical study. *Journal of Chemical Physics*, **2000**, 113, 7988-7999	3.9	39
212	Absolute state-selected and state-to-state total cross sections for the reaction Ar+(2P3/2,1/2)+O2. *Journal of Chemical Physics*, **1990**, 92, 3590-3604	3.9	39
211	Communication: the origin of rotational enhancement effect for the reaction of H2O(+) + H2 (D2). *Journal of Chemical Physics*, **2014**, 140, 011102	3.9	38
210	High resolution vacuum ultraviolet pulsed field ionization photoelectron band for OCS+(X 2Π: An experimental and theoretical study. *Journal of Chemical Physics*, **1998**, 108, 6205-6214	3.9	38

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204	Observation of accurate ion dissociation thresholds in pulsed field ionization-photoelectron studies. *Physical Review Letters*, **2001**, 86, 3526-9	7.4	37
203	Rotationally resolved pulsed field ionization photoelectron study of O2+(B 2Σg-,v+=0,1) at 20.2–21.3 eV. *Journal of Chemical Physics*, **1999**, 110, 315-327	3.9	37
202	Rotationally resolved nonresonant two-photon ionization of SH. *Journal of Chemical Physics*, **1994**, 100, 8047-8054	3.9	37
201	Experimental and theoretical total state-selected and state-to-state absolute cross sections. I. The H+2(X,v)+Ar reaction. *Journal of Chemical Physics*, **1990**, 93, 4818-4831	3.9	37
200	Photoionization with molecular beams. I. Autoionization structure of nitric oxide near the threshold. *Journal of Chemical Physics*, **1976**, 65, 1956-1961	3.9	37
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189	Gaussian-2 ab Initio Study of Isomeric Cl2O2 and Cl2O2+ and Their Dissociation Reactions. *Journal of Physical Chemistry A*, **1997**, 101, 113-115	2.8	33
188	Vacuum ultraviolet laser pulsed field ionization photoelectron study of trans-2-butene. *Journal of Chemical Physics*, **2003**, 119, 7789-7799	3.9	33
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169	Dissociative photoionization dynamics of SF6 by ion imaging with synchrotron undulator radiation. *Chemical Physics Letters*, **1999**, 312, 108-114	2.5	29
168	A study of the unimolecular decomposition of the (C2H2)2+ complex. *Journal of Chemical Physics*, **1982**, 77, 2947-2955	3.9	29
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153	Communication: branching ratio measurements in the predissociation of 12C16O by time-slice velocity-map ion imaging in the vacuum ultraviolet region. *Journal of Chemical Physics*, **2011**, 135, 221101	3.9	24
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148	Vacuum ultraviolet laser pulsed field ionization-photoelectron study of allyl radical CH2CHCH2. *Journal of Chemical Physics*, **2007**, 126, 171101	3.9	23
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126	A combined vacuum ultraviolet laser and synchrotron pulsed field ionization study of BCl3. *Physical Chemistry Chemical Physics*, **2005**, 7, 1518-26	3.6	19
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123	Absolute state-selected and state-to-state total cross sections for the Ar+(2P3/2,1/2)+CO reactions. *Journal of Chemical Physics*, **1991**, 95, 3381-3386	3.9	19
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