Jim J Lin

List of Publications by Citations

138	4,882	38	64
papers	citations	h-index	g-index
146	5,234	5.1	5.58
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
138	Application of time-sliced ion velocity imaging to crossed molecular beam experiments. *Review of Scientific Instruments*, **2003**, 74, 2495-2500	1.7	282
137	Atmospheric chemistry. Direct kinetic measurement of the reaction of the simplest Criegee intermediate with water vapor. *Science*, **2015**, 347, 751-4	33.3	218
136	State-specific correlation of coincident product pairs in the F + CD4 reaction. *Science*, **2003**, 300, 966-9	33.3	216
135	Kinetics of a Criegee intermediate that would survive high humidity and may oxidize atmospheric SO2. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10857-62	11.5	180
134	Photodissociation of H2O at 121.6 nm: A state-to-state dynamical picture. *Journal of Chemical Physics*, **2000**, 113, 10073-10090	3.9	163
133	Reactive resonance in a polyatomic reaction. *Physical Review Letters*, **2004**, 92, 103201	7.4	133
132	A Quantum State-Resolved Insertion Reaction: O((1)D) + H(2)(J = 0) --> OH((2) product operator product operator product operator, v, N) + H((2)S). *Science*, **2000**, 289, 1536-1538	33.3	123
131	Competition between H2O and (H2O)2 reactions with CH2OO/CH3CHOO. *Physical Chemistry Chemical Physics*, **2016**, 18, 4557-68	3.6	110
130	The UV absorption spectrum of the simplest Criegee intermediate CH2OO. *Physical Chemistry Chemical Physics*, **2014**, 16, 10438-43	3.6	106
129	Strong Negative Temperature Dependence of the Simplest Criegee Intermediate CH2OO Reaction with Water Dimer. *Journal of Physical Chemistry Letters*, **2015**, 6, 2708-13	6.4	105
128	Crossed-beam scattering of F+CD4->DF+CD3(□K): The integral cross sections. *Journal of Chemical Physics*, **2003**, 119, 2538-2544	3.9	103
127	Structure-dependent reactivity of Criegee intermediates studied with spectroscopic methods. *Chemical Society Reviews*, **2017**, 46, 7483-7497	58.5	99
126	Probing the effect of the H2 rotational state in O(1D)+H2->OH+H: Theoretical dynamics including nonadiabatic effects and a crossed molecular beam study. *Journal of Chemical Physics*, **2000**, 113, 7330-7344	3.9	92
125	Imaging the pair-correlated excitation function: The F+CH4-->HF(v□)+CH3(nu=0) reaction. *Journal of Chemical Physics*, **2004**, 120, 117-22	3.9	81
124	On the Cl*(2P1/2) Reactivity and the Effect of Bend Excitation in the Cl + CH4/CD4 Reactions□ *Journal of Physical Chemistry A*, **2004**, 108, 7832-7836	2.8	77
123	Detailed mechanism of the CH□+ O□reaction: yield and self-reaction of the simplest Criegee intermediate CH□O. *Journal of Chemical Physics*, **2014**, 141, 104308	3.9	76
122	Observation of a reactive resonance in the integral cross section of a six-atom reaction: F+CHD3. *Journal of Chemical Physics*, **2004**, 121, 813-8	3.9	74

121	The O(1D)+H2 reaction at 56 meV collision energy: A comparison between quantum mechanical, quasiclassical trajectory, and crossed beam results. *Journal of Chemical Physics*, **2002**, 116, 10692-10703	3.9	72
120	Insights into dynamics of the F+CD4 reaction via product pair correlation. *Journal of Chemical Physics*, **2003**, 119, 4997-5000	3.9	67
119	UV absorption spectrum of the C2 Criegee intermediate CH3CHOO. *Journal of Chemical Physics*, **2014**, 141, 074302	3.9	66
118	Unimolecular Decomposition Rate of the Criegee Intermediate (CH3)2COO Measured Directly with UV Absorption Spectroscopy. *Journal of Physical Chemistry A*, **2016**, 120, 4789-98	2.8	65
117	Mode-correlated product pairs in the F+CHD3->DF+CHD2 reaction. *Journal of Chemical Physics*, **2003**, 119, 8289-8296	3.9	65
116	Multiple dynamical pathways in the O(1D)+CH4 reaction: A comprehensive crossed beam study. *Journal of Chemical Physics*, **2000**, 113, 5287	3.9	64
115	New low background crossed molecular beam apparatus: Low background detection of H2. *Review of Scientific Instruments*, **1998**, 69, 1642-1646	1.7	64
114	Imaging the isotope effects in the ground state reaction of Cl CH4 and CD4. *Molecular Physics*, **2005**, 103, 1757-1763	1.7	57
113	Dissociation dynamics of the water molecule on the □□1B1 electronic surface. *Journal of Chemical Physics*, **2000**, 113, 10597-10604	3.9	54
112	Photodissociation of D2O at 121.6 nm: A state-to-state dynamical picture. *Journal of Chemical Physics*, **2001**, 114, 7830-7837	3.9	53
111	Rotationally selected product pair correlation in F+CD(4)-->DF(nu(0))+CD(3)(nu=0,N). *Journal of Chemical Physics*, **2004**, 120, 5863-6	3.9	51
110	Photodissociation dynamics of CH3Cl at 157.6 nm: Evidence for CH2(X 3B1/□□1A1)+HCl product channels. *Chemical Physics Letters*, **2002**, 361, 374-382	2.5	51
109	UV absorption cross sections of ClOOCl are consistent with ozone degradation models. *Science*, **2009**, 324, 781-4	33.3	49
108	Mode correlation of product pairs in the reaction OH+CD4-->HOD+CD3. *Journal of Chemical Physics*, **2005**, 122, 131102	3.9	47
107	Dynamics of the O(1D)+CH4 reaction: Atomic hydrogen channel vs molecular hydrogen channel. *Journal of Chemical Physics*, **1999**, 110, 10821-10829	3.9	47
106	The low-lying bending vibrational levels of the CCH (X 2□) radical studied by laser-induced fluorescence. *Journal of Chemical Physics*, **1993**, 98, 6690-6696	3.9	47
105	Temperature dependence of the reaction of anti-CHCHOO with water vapor. *Physical Chemistry Chemical Physics*, **2016**, 18, 28189-28197	3.6	46
104	Nonstatistical behavior of reactive scattering in the (18)O+(32)O(2) isotope exchange reaction. *Journal of the American Chemical Society*, **2007**, 129, 2866-70	16.4	44

103	State-to-state dynamics for O(1D)+D2-->OD+D: evidence for a collinear abstraction mechanism. *Physical Review Letters*, **2001**, 86, 408-11	7.4	44
102	Rotationally selected product pair correlation: F+CD4 --> DF(nu)+CD3(nu2 = 0 and 2, N). *Journal of Chemical Physics*, **2006**, 124, 104309	3.9	43
101	Unimolecular dissociation of the CH3OCO radical: an intermediate in the CH3O + CO reaction. *Journal of Physical Chemistry A*, **2006**, 110, 1625-34	2.8	42
100	Site-specific dissociation dynamics of ethylene at 157 nm: Atomic and molecular hydrogen elimination. *Journal of Chemical Physics*, **2000**, 113, 9668-9677	3.9	37
99	Two photoionization thresholds of N3 produced by ClN3 photodissociation at 248 nm: further evidence for cyclic N3. *Journal of Chemical Physics*, **2005**, 123, 051101	3.9	36
98	Quantum state specific dynamics for the O(1D)+HD->OD+H reaction. *Journal of Chemical Physics*, **2000**, 113, 1325-1328	3.9	36
97	State-correlation matrix of the product pair from F + CD(4)--> DF(nu)+ CD(3)(0 v(2) 0 0). *Physical Chemistry Chemical Physics*, **2006**, 8, 3000-6	3.6	35
96	Energy Dependence of Oxygen Isotope Exchange and Quenching in the O(1D) + CO2 Reaction: A Crossed Molecular Beam Study *Journal of Physical Chemistry A*, **2004**, 108, 7995-8001	2.8	35
95	Photodissociation dynamics of cyclopropane at 157 nm. *Journal of Chemical Physics*, **2002**, 117, 153-160	3.9	34
94	Crossed molecular beam studies of the O(1D)+CH4 reaction: Evidences for the CH2OH+H channel. *Journal of Chemical Physics*, **1998**, 109, 2975-2978	3.9	34
93	Direct kinetic measurements and theoretical predictions of an isoprene-derived Criegee intermediate. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9733-9740	11.5	33
92	Photodissociation dynamics of H2O at 121.6 nm: Effect of parent rotational excitation on reaction pathways. *Journal of Chemical Physics*, **1999**, 110, 4123-4126	3.9	32
91	Photodissociation of O2 at 157 nm: Experimental observation of anisotropy mixing in the O2+h O(3P)+O(3P) channel. *Journal of Chemical Physics*, **1998**, 109, 1758-1762	3.9	31
90	Products of Criegee intermediate reactions with NO: experimental measurements and tropospheric implications. *Faraday Discussions*, **2017**, 200, 313-330	3.6	27
89	Observation of photochemical C-N bond cleavage in CH3N3: a new photochemical route to cyclic N3. *Journal of Physical Chemistry A*, **2008**, 112, 1105-11	2.8	27
88	Dynamics of the O(1D)+CO2 oxygen isotope exchange reaction. *Journal of Chemical Physics*, **2003**, 119, 8213-8216	3.9	27
87	Criegee Intermediate Reaction with Alcohol Is Enhanced by a Single Water Molecule. *Journal of Physical Chemistry Letters*, **2018**, 9, 7040-7044	6.4	27
86	Photodissociation cross section of ClOOCl at 330 nm. *Journal of Physical Chemistry A*, **2010**, 114, 4791-7	2.8	26

85	Photodissociation dynamics of 1,1-difluoroethylene at 157 nm excitation. *Journal of Chemical Physics*, **1998**, 109, 10838-10846	3.9	26
84	Site and isotope effects on the molecular hydrogen elimination from ethylene at 157 nm excitation. *Journal of Chemical Physics*, **1998**, 109, 2979-2982	3.9	26
83	Photodissociation Dynamics of Methanol at 157 nm. *Journal of Physical Chemistry A*, **1999**, 103, 10324-10332	2.8	26
82	Competing atomic and molecular hydrogen pathways in the photodissociation of methanol at 157 nm. *Journal of Chemical Physics*, **1999**, 111, 5-9	3.9	26
81	Temperature-Dependent Rate Coefficients for the Reaction of CHOO with Hydrogen Sulfide. *Journal of Physical Chemistry A*, **2017**, 121, 938-945	2.8	25
80	Photodissociation cross sections of ClOOCl at 248.4 and 266 nm. *Journal of Chemical Physics*, **2009**, 131, 174301	3.9	25
79	Multiple pathway dynamics of the O(1D)+C2H6 reaction: A crossed beam study. *Journal of Chemical Physics*, **2001**, 115, 849-857	3.9	25
78	Absolute UV absorption cross sections of dimethyl substituted Criegee intermediate (CH3)2COO. *Chemical Physics Letters*, **2016**, 653, 155-160	2.5	23
77	Product branching from the CH2CH2OH radical intermediate of the OH + ethene reaction. *Journal of Physical Chemistry A*, **2011**, 115, 9097-110	2.8	23
76	A crossed molecular beam study of the O(1D) + C(3)H(8) reaction: multiple reaction pathways. *Journal of the American Chemical Society*, **2001**, 123, 322-30	16.4	23
75	Photodissociation of hydrogen sulfide at 157.6 nm: Observation of SH bimodal rotational distribution. *Journal of Chemical Physics*, **1999**, 111, 3940-3945	3.9	22
74	The simplest all-nitrogen ring: photolytically filling the cyclic-N3 well. *Journal of Chemical Physics*, **2007**, 126, 041101	3.9	21
73	Photodissociation dynamics of propyne at 157 nm. *Journal of Chemical Physics*, **2000**, 112, 6656-6665	3.9	21
72	Investigation of the O+allyl addition/elimination reaction pathways from the OCH(2)CHCH(2) radical intermediate. *Journal of Chemical Physics*, **2008**, 129, 084301	3.9	20
71	A complete look at a multiple pathway reaction: The reaction of O([sup 1]D) with ethane. *Journal of Chemical Physics*, **2001**, 114, 4	3.9	20
70	High resolution quantum cascade laser spectroscopy of the simplest Criegee intermediate, CHOO, between 1273 cm and 1290 cm. *Journal of Chemical Physics*, **2017**, 146, 244302	3.9	19
69	Primary photodissociation pathways of epichlorohydrin and analysis of the C-C bond fission channels from an O((3)P)+allyl radical intermediate. *Journal of Chemical Physics*, **2010**, 133, 094306	3.9	19
68	Deciphering the nature of the reactive resonance in F + CHD3: correlated differential cross-sections of the two isotopic channels. *Molecular Physics*, **2010**, 108, 957-968	1.7	19

67	Determining the partial photoionization cross-sections of ethyl radicals. *Journal of Physical Chemistry A*, **2007**, 111, 12417-22	2.8	19
66	Collision-free photochemistry of methylazide: observation of unimolecular decomposition of singlet methylnitrene. *Journal of Chemical Physics*, **2006**, 125, 133302	3.9	19
65	Product angular anisotropy in CO2 photodissociation at 157 nm. *Chemical Physics Letters*, **2003**, 382, 665-670	2.5	19
64	The non-statistical dynamics of the □□ + □□□ isotope exchange reaction at two energies. *Journal of Chemical Physics*, **2014**, 141, 064311	3.9	18
63	Unimolecular dissociation of the propargyl radical intermediate of the CH+C2H2 and C+C2H3 reactions. *Journal of Chemical Physics*, **2006**, 125, 133306	3.9	18
62	Kinetics of the reaction of the simplest Criegee intermediate with ammonia: a combination of experiment and theory. *Physical Chemistry Chemical Physics*, **2018**, 20, 29669-29676	3.6	18
61	The bending vibrational levels of the acetylene cation: a case study of the Renner-Teller effect in a molecule with two degenerate bending vibrations. *Journal of Chemical Physics*, **2006**, 125, 133201	3.9	17
60	Kinetics of the simplest Criegee intermediate reaction with ozone studied using a mid-infrared quantum cascade laser spectrometer. *Physical Chemistry Chemical Physics*, **2017**, 20, 97-102	3.6	17
59	Dynamics of Atomic and Molecular Hydrogen Elimination from Small Alkanes Following 157-nm Excitation. *Journal of Physical Chemistry A*, **2000**, 104, 7189-7199	2.8	16
58	Reactivity of Criegee Intermediates toward Carbon Dioxide. *Journal of Physical Chemistry Letters*, **2018**, 9, 184-188	6.4	15
57	Barrierless reactions between two closed-shell molecules. I. Dynamics of F(2)+CH(3)SCH(3) reaction. *Journal of Chemical Physics*, **2008**, 128, 104317	3.9	15
56	Dissociation rates of benzene at VUV excitation. *Journal of Chemical Physics*, **2001**, 115, 9623-9626	3.9	15
55	Multiple dynamical pathways in the O+SiH4 reaction studied by the crossed molecular beam method. *Journal of Chemical Physics*, **2000**, 113, 1831-1842	3.9	15
54	Temperature and isotope effects in the reaction of CHCHOO with methanol. *Physical Chemistry Chemical Physics*, **2019**, 21, 13633-13640	3.6	13
53	Unimolecular decomposition rates of a methyl-substituted Criegee intermediate -CHCHOO.. *RSC Advances*, **2020**, 10, 8518-8524	3.7	13
52	Does ozone-water complex produce additional OH radicals in the atmosphere?. *Journal of Physical Chemistry A*, **2012**, 116, 12082-8	2.8	13
51	UV photolysis of ClOOCl and the ozone hole. *Chemistry - an Asian Journal*, **2011**, 6, 1664-78	4.5	13
50	Photodissociation dynamics of ClOOCl at 248.4 and 308.4 nm. *Physical Chemistry Chemical Physics*, **2011**, 13, 8195-203	3.6	13

49	Photodissociation dynamics of OClO at 157 nm. *Journal of Chemical Physics*, **1998**, 108, 10061-10069	3.9	13
48	O(1D) reaction with cyclopropane: Evidence of O atom insertion into the C□ bond. *Journal of Chemical Physics*, **2001**, 115, 7-10	3.9	12
47	Water Vapor Does Not Catalyze the Reaction between Methanol and OH Radicals. *Angewandte Chemie - International Edition*, **2019**, 58, 5013-5017	16.4	12
46	Dynamics of the F2 reaction with the simplest pi-bonding molecule. *Journal of Chemical Physics*, **2008**, 128, 184302	3.9	11
45	Dynamics of the F2+CH3SCH3 reaction: a molecule-molecule reaction without entrance barrier. *Journal of Chemical Physics*, **2007**, 127, 101101	3.9	11
44	Multiple channel dynamics of the O+CH3F reaction. *Journal of Chemical Physics*, **2000**, 113, 9678-9685	3.9	11
43	Effects of water vapor on the reaction of CHOO with NH. *Physical Chemistry Chemical Physics*, **2019**, 21, 22589-22597	3.6	11
42	Surprisingly long lifetime of methacrolein oxide, an isoprene derived Criegee intermediate, under humid conditions. *Communications Chemistry*, **2021**, 4,	6.3	11
41	Temperature-Dependent Rate Coefficient for the Reaction of CHSH with the Simplest Criegee Intermediate. *Journal of Physical Chemistry A*, **2019**, 123, 4096-4103	2.8	10
40	Selective ionization of photofragments using tunable radiation from a synchrotron. *Journal of Electron Spectroscopy and Related Phenomena*, **2005**, 144-147, 135-138	1.7	10
39	A complete look at the dissociation dynamics of vinylfluoride at 157 nm. *Journal of Chemical Physics* , **2002**, 116, 6982-6989	3.9	10
38	UV Spectrum of the Simplest Deuterated Criegee Intermediate CD2OO. *Journal of the Chinese Chemical Society*, **2017**, 64, 360-368	1.5	9
37	Hydrogen-Bonding Mediated Reactions of Criegee Intermediates in the Gas Phase: Competition between Bimolecular and Termolecular Reactions and the Catalytic Role of Water. *Journal of Physical Chemistry A*, **2019**, 123, 8336-8348	2.8	9
36	Synergy of Water and Ammonia Hydrogen Bonding in a Gas-Phase Reaction. *Journal of Physical Chemistry A*, **2019**, 123, 1337-1342	2.8	9
35	Radical intermediates in the addition of OH to propene: photolytic precursors and angular momentum effects. *Journal of Physical Chemistry A*, **2014**, 118, 3211-29	2.8	9
34	Photofragmentation translational spectroscopy of methyl azide (CH3N3) photolysis at 193 nm: molecular and radical channel product branching ratio. *Journal of Physical Chemistry A*, **2012**, 116, 4695-704	2.8	9
33	Dynamics of the F2 reaction with propene: the effect of methyl substitution. *Journal of Physical Chemistry A*, **2009**, 113, 4381-6	2.8	9
32	Investigations of oxysilanes from the crossed-beam reaction of atomic oxygen with silane using tunable vacuum-ultraviolet ionization. *Chemical Physics Letters*, **2007**, 444, 237-241	2.5	9

31	Experimental and theoretical investigations of the O(1D) reaction with cyclopropane. *Journal of Chemical Physics*, **2002**, 116, 8292	3.9	9
30	Photodissociation dynamics of trifluoroethylene at 157 nm excitation. *Journal of Chemical Physics*, **1998**, 109, 10719-10726	3.9	9
29	Photoproduct channels from BrCD2CD2OH at 193 nm and the HDO + vinyl products from the CD2CD2OH radical intermediate. *Journal of Physical Chemistry A*, **2012**, 116, 6394-407	2.8	8
28	Note: a transient absorption spectrometer using an ultra bright laser-driven light source. *Review of Scientific Instruments*, **2013**, 84, 086106	1.7	8
27	Site specificity in molecular hydrogen elimination from photodissociation of propane at 157 nm. *Journal of Chemical Physics*, **1999**, 111, 1793-1796	3.9	8
26	Dynamics of reactions O((1)D)+C(6)H(6) and C(6)D(6). *Journal of Chemical Physics*, **2008**, 129, 174303	3.9	7
25	Crossed molecular beam studies of the O(1D)+NH3 reaction. *Journal of Chemical Physics*, **2001**, 115, 842-848	3.9	7
24	Site specific dissociation dynamics of propane at 157 nm excitation. *Journal of Chemical Physics*, **2000**, 112, 8027-8037	3.9	7
23	Kinetics of Unimolecular Decay of Methyl Vinyl Ketone Oxide, an Isoprene-Derived Criegee Intermediate, under Atmospherically Relevant Conditions. *Journal of Physical Chemistry A*, **2020**, 124, 9375-9381	2.8	6
22	The role of the iodine-atom adduct in the synthesis and kinetics of methyl vinyl ketone oxide-a resonance-stabilized Criegee intermediate. *Physical Chemistry Chemical Physics*, **2020**, 22, 13603-13612	3.6	6
21	Dynamics of reactions between two closed-shell molecules. *Physical Chemistry Chemical Physics*, **2011**, 13, 19206-13	3.6	6
20	Barrierless reactions between two closed-shell molecules. II. Dynamics of F2 + CH3SSCH3 reaction. *Journal of Chemical Physics*, **2009**, 130, 014301	3.9	6
19	Exploring the dynamics of reaction N+SiH(4) with crossed molecular-beam experiments and quantum-chemical calculations. *Journal of Chemical Physics*, **2008**, 129, 174304	3.9	5
18	Absolute Infrared Absorption Cross Section of the Simplest Criegee Intermediate Near 1285.7 cm. *Journal of Physical Chemistry A*, **2018**, 122, 8874-8881	2.8	5
17	A crossed beam study of 18O(3P)+NO2 and 18O(1D)+NO2: isotope exchange and O2+NO formation channels. *Journal of Chemical Physics*, **2012**, 137, 044302	3.9	4
16	Dissociative photoionization of ClN3 using high-resolution synchrotron radiation: The N□Cl bond energy in ClN3. *International Journal of Mass Spectrometry*, **2007**, 265, 261-266	1.9	4
15	Crossed molecular beam studies on the reaction dynamics of O(1D)+N2O. *Journal of Chemical Physics*, **2006**, 125, 133121	3.9	4
14	Dynamics of Atomic and Molecular Hydrogen Elimination from Hydrocarbons at VUV Excitation. *Journal of the Chinese Chemical Society*, **1999**, 46, 435-444	1.5	4

List of Publications

13	Water Vapor Does Not Catalyze the Reaction between Methanol and OH Radicals. *Angewandte Chemie*, **2019**, 131, 5067-5071	3.6	3
12	Electronic quenching of O((1)D) by Xe: Oscillations in the product angular distribution and their dependence on collision energy. *Journal of Chemical Physics*, **2015**, 143, 054307	3.9	3
11	Ion dissociation of hydrazoic acid investigated by synchrotron-radiation-based photoionization mass spectrometry. *Journal of Physical Chemistry A*, **2009**, 113, 3822-9	2.8	3
10	Double methyl substitution in simple alkenes leads to low-barrier reactions towards molecular fluorine. *Chemical Physics Letters*, **2011**, 510, 42-47	2.5	3
9	Photodissociation Dynamics of Benzene at 193 nm. *Journal of the Chinese Chemical Society*, **2002**, 49, 1-6	1.5	3
8	Reactions of Criegee Intermediates are Enhanced by Hydrogen-Atom Relay Through Molecular Design. *ChemPhysChem*, **2020**, 21, 2056-2059	3.2	3
7	Temperature-dependent kinetics of the simplest Criegee intermediate reaction with dimethyl sulfoxide. *Journal of the Chinese Chemical Society*, **2020**, 67, 1563-1570	1.5	3
6	Further studies into the photodissociation pathways of 2-bromo-2-nitropropane and the dissociation channels of the 2-nitro-2-propyl radical intermediate. *Journal of Physical Chemistry A*, **2014**, 118, 4707-22	2.8	2
5	Formation of NO3 in the Photolysis of N2O5 **2013**, 1,		2
4	Kinetics of dimethyl sulfide (DMS) reactions with isoprene-derived Criegee intermediates studied with direct UV absorption. *Atmospheric Chemistry and Physics*, **2020**, 20, 12983-12993	6.8	2
3	Substituent Effect in the Reactions between Criegee Intermediates and 3-Aminopropanol. *Journal of Physical Chemistry A*, **2021**, 125, 6580-6590	2.8	2
2	Photolysis cross-section of ozone dimer. *Chemistry - an Asian Journal*, **2011**, 6, 2925-30	4.5	1
1	The heat of formation of chlorine-isocyanate and the relative stability of isoelectronic molecules: an experimental and theoretical study. *Journal of Chemical Physics*, **2006**, 124, 241106	3.9	1