Bo Long

List of Publications by Year
in descending order

73 papers	3,624 citations	172386 29 h-index	133188 59 g-index
74 all docs	74 docs citations	74 times ranked	4468 citing authors

#	Article	IF	Citations
1	Vacuum ultraviolet photochemistry of sulfuric acid vaporï¼š A combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2022, , .	1.3	3
2	Direct observation of the particle-phase bicyclic products from OH-initiated oxidation of 1,3,5-trimethylbenzene under NOx-free conditions. Atmospheric Environment, 2022, 271, 118914.	1.9	4
3	Large Pressure Effects Caused by Internal Rotation in the s-cis-syn-Acrolein Stabilized Criegee Intermediate at Tropospheric Temperature and Pressure. Journal of the American Chemical Society, 2022, 144, 4828-4838.	6.6	13
4	Data of chemical composition of the particles from OH-initiated oxidation of 1,3,5-trimethylbenzene. Data in Brief, 2022, 42, 108152.	0.5	2
5	Temperature-dependent kinetics of the atmospheric reaction between CH₂OO and acetone. Physical Chemistry Chemical Physics, 2022, 24, 13066-13073.	1.3	14
6	Reaction of SO₃ with HONO₂ and Implications for Sulfur Partitioning in the Atmosphere. Journal of the American Chemical Society, 2022, 144, 9172-9177.	6.6	8
7	Reaction between propionaldehyde and hydroxyperoxy radical in the atmosphere: A reaction route for the sink of propionaldehyde and the formation of formic acid. Atmospheric Environment, 2022, 284, 119202.	1.9	1
8	Important Routes for Methanediol Formation by Formaldehyde Hydrolysis Catalyzed by Iodic Acid and for the Contribution to an Iodic Acid Sink by the Reaction of Formaldehyde with Iodic Acid Catalyzed by Atmospheric Water. ACS Earth and Space Chemistry, 2022, 6, 1890-1898.	1.2	4
9	A potential source of tropospheric secondary organic aerosol precursors: The hydrolysis of N2O5 in water dimer and small clusters of sulfuric acid. Atmospheric Environment, 2022, 287, 119245.	1.9	1
10	Vacuum ultraviolet photochemistry of the conformers of the ethyl peroxy radical. Physical Chemistry Chemical Physics, 2021, 23, 22096-22102.	1.3	6
11	Trifluoroacetaldehyde aminolysis catalyzed by a single water molecule: An important sink pathway for trifluoroacetaldehyde and a potential pathway for secondary organic aerosol growth. Atmospheric Environment, 2021, 249, 118242.	1.9	14
12	Atmospheric Kinetics: Bimolecular Reactions of Carbonyl Oxide by a Triple-Level Strategy. Journal of the American Chemical Society, 2021, 143, 8402-8413.	6.6	36
13	New Mechanistic Pathways for the Reactions of Formaldehyde with Formic Acid Catalyzed by Sulfuric Acid and Formaldehyde with Sulfuric Acid Catalyzed by Formic Acid: Formation of Potential Secondary Organic Aerosol Precursors. ACS Earth and Space Chemistry, 2021, 5, 1363-1372.	1.2	16
14	Automated Reaction Mechanisms and Kinetics based transition state search process AMK-gau_xtb and its application to the substitution reaction of the nitroso group in 2,4,6-trinitrotoluene by hydroxide anion in the aqueous phase. Physical Chemistry Chemical Physics, 2021, 23, 23673-23683.	1.3	4
15	The HO₄H â†' O₃â€‰+â€‰H₂O reaction catalysed by acidic, neutral and basic catalysts in the troposphere. Molecular Physics, 2020, 118, e1673912.	0.8	3
16	A computational investigation on the HO2 and isopropyl peroxy radical reaction: Mechanism and kinetics. Chemical Physics Letters, 2020, 749, 137442.	1.2	4
17	Hydrolysis of ketene catalysed by nitric acid and water in the atmosphere. Environmental Chemistry, 2020, 17, 457.	0.7	4
18	New mechanistic pathways for the formation of organosulfates catalyzed by ammonia and carbinolamine formation catalyzed by sulfuric acid in the atmosphere. Physical Chemistry Chemical Physics, 2020, 22, 8800-8807.	1.3	29

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19	Effects of water, ammonia and formic acid on HO₂ + Cl reactions under atmospheric conditions: competition between a stepwise route and one elementary step. RSC Advances, 2019, 9, 21544-21556.	1.7	7
20	Rapid unimolecular reaction of stabilized Criegee intermediates and implications for atmospheric chemistry. Nature Communications, 2019, 10, 2003.	5.8	72
21	Hydrolysis of Formyl Fluoride Catalyzed by Sulfuric Acid and Formic Acid in the Atmosphere. ACS Omega, 2019, 4, 18996-19004.	1.6	12
22	Atmospheric chemistry of the self-reaction of HO₂ radicals: stepwise mechanism versus one-step process in the presence of (H₂O)_n (n = 1â€“3) clusters. Physical Chemistry Chemical Physics, 2019, 21, 24042-24053.	1.3	18
23	Computational study on the mechanism and kinetics for the reaction between HO₂ and n-propyl peroxy radical. RSC Advances, 2019, 9, 40437-40444.	1.7	5
24	Kinetics of the Strongly Correlated CH₃O + O₂ Reaction: The Importance of Quadruple Excitations in Atmospheric and Combustion Chemistry. Journal of the American Chemical Society, 2019, 141, 611-617.	6.6	59
25	Atmospheric chemistry of CH₃CHO: the hydrolysis of CH₃CHO catalyzed by H₂SO₄. Physical Chemistry Chemical Physics, 2018, 20, 7701-7709.	1.3	39
26	Kinetic and mechanistic study on gas phase reactions of ozone with a series ofcis-3-hexenyl esters. RSC Advances, 2018, 8, 4230-4238.	1.7	8
27	Unimolecular reaction of acetone oxide and its reaction with water in the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6135-6140.	3.3	76
28	The energetics and kinetics of the CH3CHOâ€¯+â€¯(CH3)2NH/CH3NH2 reactions catalyzed by a single water molecule in the atmosphere. Computational and Theoretical Chemistry, 2018, 1140, 7-13.	1.1	12
29	The influences of ammonia on aerosol formation in the ozonolysis of styrene: roles of Criegee intermediate reactions. Royal Society Open Science, 2018, 5, 172171.	1.1	21
30	Reaction of SO₂with OH in the atmosphere. Physical Chemistry Chemical Physics, 2017, 19, 8091-8100.	1.3	63
31	microRNAs: important regulators of stem cells. Stem Cell Research and Therapy, 2017, 8, 110.	2.4	122
32	Theoretical Study of the Reaction Mechanism and Kinetics of HO₂ with XCHO (X = F, Cl). International Journal of Chemical Kinetics, 2017, 49, 130-139.	1.0	13
33	Atmospheric chemistry of CH₃O: its unimolecular reaction and reactions with H₂O, NH₃, and HF. RSC Advances, 2017, 7, 56211-56219.	1.7	11
34	Theoretical Study on Gas Phase Reactions of OH Hydrogen-Abstraction from Formyl Fluoride with Different Catalysts. Chinese Journal of Chemical Physics, 2016, 29, 325-334.	0.6	2
35	How Much Can Density Functional Approximations (DFA) Fail? The Extreme Case of the FeO₄ Species. Journal of Chemical Theory and Computation, 2016, 12, 1525-1533.	2.3	33
36	Atmospheric Chemistry of Criegee Intermediates: Unimolecular Reactions and Reactions with Water. Journal of the American Chemical Society, 2016, 138, 14409-14422.	6.6	265

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37	New mechanistic pathways for CO oxidation catalyzed by single-atom catalysts: Supported and doped Au1/ThO2. Nano Research, 2016, 9, 3868-3880.	5.8	68
38	Theoretical Studies on Reactions of OH with H₂SO₄^{â€¦}NH₃Complex and NH₂with H₂SO₄in the Presence of Water. ChemistrySelect, 2016, 1, 1421-1430.	0.7	18
39	On the Nature of Support Effects of Metal Dioxides MO₂ (M = Ti, Zr, Hf, Ce, Th) in Single-Atom Gold Catalysts: Importance of Quantum Primogenic Effect. Journal of Physical Chemistry C, 2016, 120, 17514-17526.	1.5	120
40	Theoretical Studies on the Synergetic Effects of Auâ€“Pd Bimetallic Catalysts in the Selective Oxidation of Methanol. Journal of Physical Chemistry C, 2015, 119, 16072-16081.	1.5	45
41	E2F1-dependent miR-421 regulates mitochondrial fragmentation and myocardial infarction by targeting Pink1. Nature Communications, 2015, 6, 7619.	5.8	87
42	A theoretical study on the catalytic role of water in methanol steam reforming on PdZn(111). Catalysis Science and Technology, 2015, 5, 2935-2944.	2.1	37
43	New insights in atmospheric acid-catalyzed gas phase hydrolysis of formaldehyde: a theoretical study. RSC Advances, 2015, 5, 32941-32949.	1.7	27
44	Experimental and Theoretical Study of Reactions of OH Radicals with Hexenols: An Evaluation of the Relative Importance of the H-Abstraction Reaction Channel. Environmental Science & Technology, 2015, 49, 10380-10388.	4.6	14
45	MDRL lncRNA Regulates the Processing of miR-484 Primary Transcript by Targeting miR-361. PLoS Genetics, 2014, 10, e1004467.	1.5	108
46	CARL lncRNA inhibits anoxia-induced mitochondrial fission and apoptosis in cardiomyocytes by impairing miR-539-dependent PHB2 downregulation. Nature Communications, 2014, 5, 3596.	5.8	388
47	Theoretical investigation on mechanisms and kinetics of the reactions of Cl atom with CH3OOH and CH3CH2OOH. Computational and Theoretical Chemistry, 2014, 1038, 33-39.	1.1	11
48	The reaction mechanisms and kinetics of CF3CHFOCH3 and CHF2CHFOCF3 with atomic chlorine: a computational study. Journal of Molecular Modeling, 2014, 20, 2435.	0.8	2
49	The Long Noncoding RNA CHRF Regulates Cardiac Hypertrophy by Targeting miR-489. Circulation Research, 2014, 114, 1377-1388.	2.0	525
50	A Water-Promoted Mechanism of Alcohol Oxidation on a Au(111) Surface: Understanding the Catalytic Behavior of Bulk Gold. ACS Catalysis, 2013, 3, 1693-1699.	5.5	118
51	Theoretical study on the gas phase reaction of dimethyl sulfoxide with atomic chlorine in the presence of water. Structural Chemistry, 2013, 24, 383-392.	1.0	5
52	Nitric acid catalyzed hydrolysis of SO3 in the formation of sulfuric acid: A theoretical study. Chemical Physics Letters, 2013, 581, 26-29.	1.2	37
53	Theoretical Studies on Gas-Phase Reactions of Sulfuric Acid Catalyzed Hydrolysis of Formaldehyde and Formaldehyde with Sulfuric Acid and H₂SO₄Â·Â·Â·H₂O Complex. Journal of Physical Chemistry A, 2013, 117, 5106-5116.	1.1	69
54	miR-761 regulates the mitochondrial network by targeting mitochondrial fission factor. Free Radical Biology and Medicine, 2013, 65, 371-379.	1.3	88

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55	Transcription Factor Foxo3a Prevents Apoptosis by Regulating Calcium through the Apoptosis Repressor with Caspase Recruitment Domain. Journal of Biological Chemistry, 2013, 288, 8491-8504.	1.6	44
56	Cardiac Hypertrophy Is Positively Regulated by MicroRNA miR-23a. Journal of Biological Chemistry, 2012, 287, 589-599.	1.6	105
57	miR-484 regulates mitochondrial network through targeting Fis1. Nature Communications, 2012, 3, 781.	5.8	192
58	Theoretical study on HO₂â€initiated atmospheric oxidation of halogenated carbonyls. International Journal of Quantum Chemistry, 2012, 112, 1926-1935.	1.0	4
59	Formic Acid Catalyzed Gasâ€Phase Reaction of H₂O with SO₃ and the Reverse Reaction: A Theoretical Study. ChemPhysChem, 2012, 13, 323-329.	1.0	77
60	Theoretical Study on the Gas Phase Reaction of Sulfuric Acid with Hydroxyl Radical in the Presence of Water. Journal of Physical Chemistry A, 2011, 115, 1350-1357.	1.1	40
61	Theoretical Studies on Reactions of the Stabilized H₂COO with HO₂ and the HO₂Â·Â·Â·H₂O Complex. Journal of Physical Chemistry A, 2011, 115, 6559-6567.	1.1	71
62	Theoretical studies on the gas phase reaction mechanisms and kinetics of glyoxal with HO2 with water and without water. Computational and Theoretical Chemistry, 2011, 964, 248-256.	1.1	14
63	Theoretical Study on Decomposition of CF3OH Catalyzed by Water Dimer and Ammonia. Chinese Journal of Chemical Physics, 2011, 24, 16-21.	0.6	11
64	Theoretical Study on Impact of Single Water Molecule on OH+O3 Reaction. Chinese Journal of Chemical Physics, 2011, 24, 419-424.	0.6	12
65	Theoretical study on the water-catalyzed reaction of glyoxal with OH radical. Computational and Theoretical Chemistry, 2010, 956, 44-49.	1.5	27
66	Theoretical studies on energetics and mechanisms of the decomposition of CF3OH. Chemical Physics Letters, 2010, 492, 214-219.	1.2	21
67	miR-9 and NFATc3 Regulate Myocardin in Cardiac Hypertrophy. Journal of Biological Chemistry, 2010, 285, 11903-11912.	1.6	135
68	Theoretical study on the detailed reaction mechanisms of carbonyl oxide with formic acid. Computational and Theoretical Chemistry, 2009, 916, 159-167.	1.5	48
69	Time-resolved laser-induced breakdown spectroscopy of aluminum. Optoelectronics Letters, 2008, 4, 369-370.	0.4	2
70	Theoretical investigation on the detailed mechanism of the OHâ€initiated atmospheric photooxidation of oâ€xylene. International Journal of Quantum Chemistry, 2008, 108, 954-966.	1.0	13
71	Theoretical investigation on the mechanism and kinetics of toluene-OH adduct with oxygen molecule. Computational and Theoretical Chemistry, 2008, 862, 28-32.	1.5	8
72	Theoretical Studies on the Kinetics and Mechanisms of Reactions for Methyl Vinyl Ether and Ozone. Chinese Journal of Chemical Physics, 2008, 21, 324-332.	0.6	1

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73	Laser desorption/ionization mass spectrometric study of secondary organic aerosol formed from the photooxidation of aromatics. Journal of Atmospheric Chemistry, 2007, 58, 237-252.	1.4	28