Lidong Zhang

List of Publications by Year
in descending order

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129 papers	7,546 citations	66234 42 h-index	54797 84 g-index
130 all docs	130 docs citations	130 times ranked	7823 citing authors

#	Article	IF	Citations
1	Atomically Dispersed Ironâ€“Nitrogen Species as Electrocatalysts for Bifunctional Oxygen Evolution and Reduction Reactions. Angewandte Chemie - International Edition, 2017, 56, 610-614.	7.2	950
2	3D Nitrogenâ€Anionâ€Decorated Nickel Sulfides for Highly Efficient Overall Water Splitting. Advanced Materials, 2017, 29, 1701584.	11.1	478
3	Oxygen Vacancies Confined in Nickel Molybdenum Oxide Porous Nanosheets for Promoted Electrocatalytic Urea Oxidation. ACS Catalysis, 2018, 8, 1-7.	5.5	372
4	An experimental and kinetic modeling study of premixed NH3/CH4/O2/Ar flames at low pressure. Combustion and Flame, 2009, 156, 1413-1426.	2.8	359
5	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 12465-12469.	7.2	356
6	Phaseâ€Transformation Engineering in Cobalt Diselenide Realizing Enhanced Catalytic Activity for Hydrogen Evolution in an Alkaline Medium. Advanced Materials, 2016, 28, 7527-7532.	11.1	307
7	Interfacial engineering of cobalt sulfide/graphene hybrids for highly efficient ammonia electrosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6635-6640.	3.3	242
8	Spin-State Regulation of Perovskite Cobaltite to Realize Enhanced Oxygen Evolution Activity. CheM, 2017, 3, 812-821.	5.8	225
9	Regulating Waterâ€Reduction Kinetics in Cobalt Phosphide for Enhancing HER Catalytic Activity in Alkaline Solution. Advanced Materials, 2017, 29, 1606980.	11.1	220
10	Experimental Study of a Fuel-Rich Premixed Toluene Flame at Low Pressure. Energy & Fuels, 2009, 23, 1473-1485.	2.5	184
11	Molecular co-catalyst accelerating hole transfer for enhanced photocatalytic H2 evolution. Nature Communications, 2015, 6, 8647.	5.8	172
12	An experimental and kinetic modeling study of three butene isomers pyrolysis at low pressure. Combustion and Flame, 2012, 159, 905-917.	2.8	141
13	Experimental and kinetic modeling study on methylcyclohexane pyrolysis and combustion. Combustion and Flame, 2014, 161, 84-100.	2.8	126
14	Experimental and Kinetic Modeling Study of n-Butanol Pyrolysis and Combustion. Energy & Fuels, 2012, 26, 5550-5568.	2.5	123
15	Experimental and kinetic modeling study of the low- and intermediate-temperature oxidation of dimethyl ether. Combustion and Flame, 2015, 162, 1113-1125.	2.8	120
16	Investigation on chemical structures of premixed toluene flames at low pressure. Proceedings of the Combustion Institute, 2011, 33, 593-600.	2.4	113
17	An experimental and theoretical study of toluene pyrolysis with tunable synchrotron VUV photoionization and molecular-beam mass spectrometry. Combustion and Flame, 2009, 156, 2071-2083.	2.8	111
18	Kinetic modeling study of toluene pyrolysis at low pressure. Combustion and Flame, 2010, 157, 1686-1697.	2.8	111

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19	An experimental and kinetic modeling study of cyclohexane pyrolysis at low pressure. Combustion and Flame, 2012, 159, 2243-2253.	2.8	110
20	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. Combustion and Flame, 2016, 164, 386-396.	2.8	94
21	Experimental and kinetic modeling study of pyrolysis and oxidation of n-decane. Combustion and Flame, 2014, 161, 1701-1715.	2.8	87
22	Investigation on fuel-rich premixed flames of monocyclic aromatic hydrocarbons: Part I. Intermediate identification and mass spectrometric analysis. Combustion and Flame, 2010, 157, 143-154.	2.8	83
23	Pyrolysis of Methyl tert-Butyl Ether (MTBE). 1. Experimental Study with Molecular-Beam Mass Spectrometry and Tunable Synchrotron VUV Photoionization. Journal of Physical Chemistry A, 2008, 112, 10487-10494.	1.1	74
24	An experimental and kinetic modeling study of a premixed nitromethane flame at low pressure. Proceedings of the Combustion Institute, 2009, 32, 311-318.	2.4	70
25	Kinetics of ethylcyclohexane pyrolysis and oxidation: An experimental and detailed kinetic modeling study. Combustion and Flame, 2015, 162, 2873-2892.	2.8	70
26	Investigation of the rich premixed laminar acetylene/oxygen/argon flame: Comprehensive flame structure and special concerns of polyynes. Proceedings of the Combustion Institute, 2009, 32, 1293-1300.	2.4	66
27	Hydrogen dangling bonds induce ferromagnetism in two-dimensional metal-free graphitic-C₃N₄ nanosheets. Chemical Science, 2015, 6, 283-287.	3.7	62
28	Theoretical study of transition metals supported on g-C3N4 as electrochemical catalysts for CO2 reduction to CH3OH and CH4. Journal of CO2 Utilization, 2020, 36, 116-123.	3.3	59
29	Experimental and kinetic modeling study of 2-butanol pyrolysis and combustion. Combustion and Flame, 2013, 160, 1939-1957.	2.8	58
30	Coordination-Engineered Cuâ€“N_x Single-Site Catalyst for Enhancing Oxygen Reduction Reaction. ACS Applied Energy Materials, 2019, 2, 6497-6504.	2.5	58
31	Experimental and modeling investigation on premixed ethylbenzene flames at low pressure. Proceedings of the Combustion Institute, 2011, 33, 617-624.	2.4	56
32	Determination of absolute photoionization crossâ€sections of alkanes and cycloâ€alkanes. Rapid Communications in Mass Spectrometry, 2010, 24, 1335-1342.	0.7	53
33	Experimental and kinetic modeling study of tetralin pyrolysis at low pressure. Proceedings of the Combustion Institute, 2013, 34, 1739-1748.	2.4	53
34	An experimental study of the rich premixed ethylbenzene flame at low pressure. Proceedings of the Combustion Institute, 2009, 32, 647-655.	2.4	51
35	Pyrolysis ofn-Heptane: Experimental and Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 1593-1601.	1.1	50
36	An experimental and modeling study of methyl propanoate pyrolysis at low pressure. Combustion and Flame, 2013, 160, 1958-1966.	2.8	50

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37	Experimental and modeling studies of small typical methyl esters pyrolysis: Methyl butanoate and methyl crotonate. Combustion and Flame, 2018, 191, 160-174.	2.8	48
38	Investigation on primary decomposition of ethylcyclohexane at atmospheric pressure. Proceedings of the Combustion Institute, 2015, 35, 367-375.	2.4	47
39	Experimental and kinetic modeling study of premixed o-xylene flames. Proceedings of the Combustion Institute, 2015, 35, 1745-1752.	2.4	45
40	Online Study on the Catalytic Pyrolysis of Bituminous Coal over HUSY and HZSM-5 with Photoionization Time-of-Flight Mass Spectrometry. Energy & Fuels, 2016, 30, 1598-1604.	2.5	45
41	Thermal Decomposition of 1-Pentanol and Its Isomers: A Theoretical Study. Journal of Physical Chemistry A, 2012, 116, 9238-9244.	1.1	44
42	Kinetics of Decomposition and Isomerization of Methylcyclohexane: Starting Point for Studying Monoalkylated Cyclohexanes Combustion. Energy & Fuels, 2013, 27, 1679-1687.	2.5	44
43	Supermolecule density functional calculations suggest a key role for solvent in alkaline hydrolysis of p-nitrophenyl phosphate. Chemical Communications, 2007, , 1638.	2.2	42
44	An experimental and kinetic modeling investigation on a rich premixed n-propylbenzene flame at low pressure. Proceedings of the Combustion Institute, 2013, 34, 1785-1793.	2.4	41
45	A theoretical kinetics study of the reactions of methylbutanoate with hydrogen and hydroxyl radicals. Proceedings of the Combustion Institute, 2015, 35, 481-489.	2.4	40
46	Large Negative Magnetoresistance Induced by Anionic Solid Solutions in Two-Dimensional Spin-Frustrated Transition Metal Chalcogenides. Physical Review Letters, 2014, 113, 157202.	2.9	39
47	Experimental and kinetic modeling studies of furan pyrolysis: Fuel decomposition and aromatic ring formation. Fuel, 2017, 206, 239-247.	3.4	38
48	New insights into the low-temperature oxidation of 2-methylhexane. Proceedings of the Combustion Institute, 2017, 36, 373-382.	2.4	36
49	An Experimental and Theoretical Study of Pyrrole Pyrolysis with Tunable Synchrotron VUV Photoionization and Molecular-Beam Mass Spectrometry. Journal of Physical Chemistry A, 2009, 113, 5397-5405.	1.1	35
50	Theoretical kinetic studies for low temperature oxidation of two typical methylcyclohexyl radicals. Combustion and Flame, 2017, 182, 216-224.	2.8	32
51	Hydroperoxide Measurements During Low-Temperature Gas-Phase Oxidation of n-Heptane and n-Decane. Journal of Physical Chemistry A, 2017, 121, 1861-1876.	1.1	31
52	Theoretical Studies on the Unimolecular Decomposition of Ethylene Glycol. Journal of Physical Chemistry A, 2012, 116, 55-63.	1.1	30
53	Experimental and kinetic modeling study of tert-butanol combustion at low pressure. Energy, 2012, 43, 94-102.	4.5	29
54	An experimental and kinetic modeling study of premixed nitroethane flames at low pressure. Proceedings of the Combustion Institute, 2013, 34, 617-624.	2.4	29

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55	Experimental and kinetic modeling study of i-butanol pyrolysis and combustion. Combustion and Flame, 2014, 161, 1955-1971.	2.8	28
56	Dynamic Surface Reconstruction of Single-Atom Bimetallic Alloy under Operando Electrochemical Conditions. Nano Letters, 2020, 20, 8319-8325.	4.5	28
57	Manganous oxide nanoparticles encapsulated in few-layer carbon as an efficient electrocatalyst for oxygen reduction in alkaline media. Journal of Materials Chemistry A, 2016, 4, 11775-11781.	5.2	27
58	Experimental and kinetic modeling investigation on methyl decanoate pyrolysis at low and atmospheric pressures. Fuel, 2018, 232, 333-340.	3.4	27
59	Towards high-level theoretical studies of large biodiesel molecules: an ONIOM [QCISD(T)/CBS:DFT] study of hydrogen abstraction reactions of C_nH_{2n+1}COOC_mH_{2m+1} + H. Physical Chemistry Chemical Physics, 2015, 17, 200-208.	1.3	26
60	Photoionization studies on various quinones by an infrared laser desorption/tunable VUV photoionization TOF mass spectrometry. Journal of Mass Spectrometry, 2008, 43, 1701-1710.	0.7	25
61	Theoretical studies for reaction kinetics of cy-C6H11CH2 radical with O2. Proceedings of the Combustion Institute, 2017, 36, 179-186.	2.4	25
62	Ab initio kinetics on low temperature oxidation of iso-pentane: The first oxygen addition. Combustion and Flame, 2018, 190, 119-132.	2.8	25
63	Theoretical studies on the reaction kinetics of methyl crotonate with hydroxyl radical. Sustainable Energy and Fuels, 2018, 2, 392-402.	2.5	24
64	Conformation-Specific Pathways of Î²-Alanine: A Vacuum Ultraviolet Photoionization and Theoretical Study. Journal of Physical Chemistry A, 2009, 113, 5838-5845.	1.1	22
65	Intramolecular hydrogen transfer in the ionization process of Î±-alanine. Physical Chemistry Chemical Physics, 2009, 11, 1189.	1.3	22
66	Electronic Excitations of Green Fluorescent Proteins:â€‰Modeling Solvatochromatic Shifts of Red Fluorescent Protein Chromophore Model Compound in Aqueous Solutions. Journal of Physical Chemistry B, 2007, 111, 14055-14063.	1.2	21
67	Experimental and Theoretical Investigation of the Pyrolysis of Furfural. Journal of Physical Chemistry A, 2019, 123, 103-110.	1.1	21
68	Photoionisation and photodissociation studies of nonvolatile organic molecules by synchrotron VUV photoionisation mass spectrometry and theoretical calculations. International Reviews in Physical Chemistry, 2010, 29, 369-401.	0.9	20
69	A theoretical kinetics study on low-temperature reactions of methyl acetate radicals with molecular oxygen. Combustion and Flame, 2018, 196, 45-53.	2.8	20
70	Abatement of n-Butane by Catalytic Combustion over Co-ZSM-5 Catalysts. Energy & Fuels, 2020, 34, 12880-12890.	2.5	20
71	Pyrolysis of Methyl tert-Butyl Ether (MTBE). 2. Theoretical Study of Decomposition Pathways. Journal of Physical Chemistry A, 2008, 112, 10495-10501.	1.1	19
72	Unimolecular Decomposition of Ethyl Hydroperoxide: Ab Initio/Riceâ€“Ramspergerâ€“Kasselâ€“Marcus Theoretical Prediction of Rate Constants. Journal of Physical Chemistry A, 2011, 115, 602-611.	1.1	19

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73	Experimental and kinetic modeling investigation on decalin pyrolysis at low to atmospheric pressures. Combustion and Flame, 2016, 167, 228-237.	2.8	18
74	Toward High-Level Theoretical Studies of Large Biodiesel Molecules: An ONIOM [QCISD(T)/CBS:DFT] Study of the Reactions between Unsaturated Methyl Esters (C_nH_{2nâ€“1}COOCH₃) and Hydrogen Radical. Journal of Physical Chemistry A, 2018, 122, 4882-4893.	1.1	18
75	A theoretical investigation on Bell-Evans-Polanyi correlations for hydrogen abstraction reactions of large biodiesel molecules by H and OH radicals. Combustion and Flame, 2020, 214, 394-406.	2.8	18
76	Utilization of generalized energy-based fragmentation method on the study of hydrogen abstraction reactions of large methyl esters. Combustion and Flame, 2018, 190, 467-476.	2.8	17
77	Experimental and theoretical studies on decomposition of pyrrolidine. Proceedings of the Combustion Institute, 2011, 33, 415-423.	2.4	16
78	Kinetics of Homoallylic/Homobenzylic Rearrangement Reactions under Combustion Conditions. Journal of Physical Chemistry A, 2014, 118, 6741-6748.	1.1	16
79	Predictive kinetics on the formation and decomposition of ethylbenzene. Proceedings of the Combustion Institute, 2017, 36, 533-542.	2.4	15
80	Toward high-level theoretical studies on the reaction kinetics of PAHs growth based on HACA pathway: An ONIOM[G3(MP2,CC)//B3LYP:DFT] method developed. Fuel, 2021, 301, 121052.	3.4	15
81	Reactivity of Metaphosphate and Thiometaphosphate in Water:â€‰ A DFT Study. Journal of Physical Chemistry A, 2005, 109, 11295-11303.	1.1	14
82	Vacuum Ultraviolet Photofragmentation of Sarcosine: Photoionization Mass Spectrometric and Theoretical Insights. Journal of Physical Chemistry A, 2010, 114, 3411-3417.	1.1	14
83	Pyrolysis of 2-methyl-1-butanol at low and atmospheric pressures: Mass spectrometry and modeling studies. Proceedings of the Combustion Institute, 2015, 35, 409-417.	2.4	14
84	Experimental and kinetic modeling study of laminar premixed decalin flames. Proceedings of the Combustion Institute, 2017, 36, 1193-1202.	2.4	14
85	Theoretical calculation of low-temperature oxidation of heptyl radicals and O2. Combustion and Flame, 2020, 217, 274-284.	2.8	14
86	Theoretical Studies on the Unimolecular Decomposition of Propanediols and Glycerol. Journal of Physical Chemistry A, 2012, 116, 4457-4465.	1.1	13
87	Towards high-level theoretical studies of large biodiesel molecules: an ONIOM/RRKM/Master-equation approach to the isomerization and dissociation kinetics of methyl decanoate radicals. Physical Chemistry Chemical Physics, 2019, 21, 5232-5242.	1.3	13
88	Theoretical investigations of electrochemical CO₂ reduction by transition metals anchored on CNTs. Sustainable Energy and Fuels, 2020, 4, 6156-6164.	2.5	13
89	Identification of Intermediates in Pyridine Pyrolysis with Molecular-beam Mass Spectrometry and Tunable Synchrotron VUV Photoionization. Chinese Journal of Chemical Physics, 2009, 22, 204-209.	0.6	12
90	Experimental and Kinetic Modeling Study of Nitroethane Pyrolysis at a Low Pressure: Competition Reactions in the Primary Decomposition. Energy & Fuels, 2016, 30, 7738-7745.	2.5	12

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91	Au@Pt Nanotubes within CoZn-Based Metal-Organic Framework for Highly Efficient Semi-hydrogenation of Acetylene. IScience, 2020, 23, 101233.	1.9	12
92	A theoretical kinetics study on low-temperature oxidation of n-C4H9 radicals. Proceedings of the Combustion Institute, 2021, 38, 681-689.	2.4	12
93	Theoretical Study of General Base-Catalyzed Hydrolysis of Aryl Esters and Implications for Enzymatic Reactions. Journal of Physical Chemistry B, 2005, 109, 5259-5266.	1.2	11
94	Catalytic combustion of methyl butanoate over HZSM-5 zeolites. Chemical Communications, 2021, 57, 2233-2244.	2.2	11
95	Molecular Dynamics and Density Functional Studies of Substrate Binding and Catalysis of Arginine Deiminase. Journal of Physical Chemistry B, 2007, 111, 3267-3273.	1.2	10
96	Experimental and kinetic modeling study of methyl heptanoate low-temperature oxidation in a jet-stirred reactor. Fuel, 2021, 283, 118885.	3.4	10
97	Converting CO₂ Hydrogenation Products from Paraffins to Olefins: Modification of Zeolite Surface Properties by a UIO-n Membrane. ACS Catalysis, 2022, 12, 5894-5902.	5.5	10
98	VUV photonâ€induced ionization/dissociation of antipyrine and propyphenazone: mass spectrometric and theoretical insights. Journal of Mass Spectrometry, 2010, 45, 734-739.	0.7	9
99	An experimental and theoretical study of pyrrolidine pyrolysis at low pressure. Proceedings of the Combustion Institute, 2013, 34, 641-648.	2.4	9
100	Product Identification and Mass Spectrometric Analysis of n-Butane and i-Butane Pyrolysis at Low Pressure. Chinese Journal of Chemical Physics, 2013, 26, 151-156.	0.6	9
101	Highly active and stable Co3O4 catalyst for the Low-temperature oxidative dehydrogenation of propane. Inorganic Chemistry Communication, 2020, 112, 107725.	1.8	9
102	Unraveling the low-temperature oxidation mechanism between methyl crotonate radicals and O2. Combustion and Flame, 2021, 231, 111473.	2.8	9
103	Flame In Situ Synthesis of Metal-Anchored CuO Nanowires for CO Catalytic Oxidation and Kinetic Analysis. ACS Applied Energy Materials, 2021, 4, 13226-13238.	2.5	9
104	Density functional theory study of the reactions of 2-azido- N , N -dimethylethanamine with nitric acid and nitrogen dioxide. Combustion and Flame, 2015, 162, 237-248.	2.8	8
105	Influence of Torsional Anharmonicity on the Reactions of Methyl Butanoate with Hydroperoxyl Radical. Journal of Physical Chemistry A, 2020, 124, 8643-8652.	1.1	8
106	ELECTRONIC EXCITATIONS OF GREEN FLUORESCENT PROTEINS: MODELING SOLVATOCHROMATIC SHIFTS OF CHROMOPHORE MODEL COMPOUNDS IN SOLUTIONS. Journal of Theoretical and Computational Chemistry, 2006, 05, 375-390.	1.8	7
107	Dissociative Photoionization Mechanism of 1,8-Dihydroxyanthraquinone: An Experimental and Theoretical Study. Journal of Physical Chemistry A, 2008, 112, 10977-10984.	1.1	7
108	Pyrolysis of n-butane investigated using synchrotron threshold photoelectron photoion coincidence spectroscopy. RSC Advances, 2017, 7, 28746-28753.	1.7	7

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109	Theoretical Study on Criegee Intermediateâ€™s Role in Ozonolysis of Acrylic Acid. Journal of Physical Chemistry A, 2019, 123, 1929-1936.	1.1	7
110	Theoretical chemical kinetics for catalytic pyrolysis of methyl acetate over H-ZSM-5 zeolites. Fuel, 2020, 277, 118101.	3.4	7
111	THEORETICAL STUDIES ON PHOTOIONIZATION OF GUANINE TAUTOMERS AND INTERCONVERSION OF CATION RADICALS. Journal of Theoretical and Computational Chemistry, 2009, 08, 1103-1115.	1.8	6
112	Toward the Mechanism Study of Pd/Î³-Al₂O₃-Assisted Bioalcohol Combustion in a Flow Reactor. Energy & Fuels, 2021, 35, 14954-14962.	2.5	6
113	Experimental and kinetic modeling studies of 2-acetylfuran pyrolysis at atmospheric pressure. Combustion and Flame, 2022, 236, 111824.	2.8	6
114	A computational investigation on the sequential rearrangement mechanism of 2-allyl-2,4,5-hexatrienaldehyde involving [1,5]-hydrogen migration and 8Ï€-electrocyclization. Journal of Computational Chemistry, 2007, 28, 2164-2169.	1.5	5
115	VUV Photoionization and Dissociation of Tyramine and Dopamine: the Joint Experimental and Theoretical Studies. Chinese Journal of Chemical Physics, 2012, 25, 11-18.	0.6	5
116	A thorough theoretical mechanistic study of OH-initiated oxidative degradation mechanism for large polycyclic aromatic hydrocarbons. Computational and Theoretical Chemistry, 2020, 1175, 112730.	1.1	5
117	Optimized rapid flame synthesis of morphology-controlled Î±-MoO3 layered nanoflakes. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	5
118	Interactions of disulfide-constrained cyclic tetrapeptides with Cu2+. Journal of Biological Inorganic Chemistry, 2013, 18, 277-286.	1.1	4
119	Theoretical Study of the AlEt3-Promoted Tandem Reductive Rearrangement of Epoxides. Chinese Journal of Chemical Physics, 2008, 21, 547-554.	0.6	3
120	Photoionization and Dissociative Photoionization Study of Cholesterol by IR Laser Desorption/Tunable Synchrotron VUV Photoionization Mass Spectrometry. Chinese Journal of Chemical Physics, 2009, 22, 129-133.	0.6	3
121	Theoretical Studies on Isomerization and Decomposition Reactions of 2-Methyl-1-butanol Radicals. Energy & Fuels, 2018, 32, 7652-7659.	2.5	3
122	Theoretical investigation of chemical reaction kinetics of CO2 and vinyl radical under catalytic combustion. Fuel, 2021, 305, 121566.	3.4	3
123	Mesoporous Coâ€“Mn Spinel Oxides as Efficient Catalysts for Low Temperature Propane Oxidation. Catalysis Letters, 2022, 152, 2695-2704.	1.4	3
124	Synchrotron vacuum ultraviolet (VUV) photo-induced fragmentation of cyclic dipeptides radical cations. Amino Acids, 2012, 43, 279-287.	1.2	2
125	Experimental and theoretical studies of pyrolysis of chrysophanol and its derivatives. Journal of Analytical and Applied Pyrolysis, 2013, 100, 237-244.	2.6	2
126	Roaming-Mediated CH₂NH Elimination from the Ionization of Aromatic Ethylamines. ChemistryOpen, 2017, 6, 40-45.	0.9	2

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127	Experimental and Theoretical Study on Pyrolysis of Isopsoralen. Chinese Journal of Chemical Physics, 2012, 25, 249-253.	0.6	1
128	Unique Coordination Structure of Cobalt Single-Atom Catalyst Supported on Dopant-Free Carbon. Journal of Physical Chemistry C, 2021, 125, 6735-6742.	1.5	1
129	Density functional theory study of proton transfer in carbonic anhydrase. Science Bulletin, 2005, 50, 2557.	1.7	0