

Chih-Hao Chin

List of Publications by Year in descending order

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31
papers

320
citations

933447

10
h-index

888059

17
g-index

31
all docs

31
docs citations

31
times ranked

323
citing authors

#	ARTICLE	IF	CITATIONS
1	ReacNetGenerator: an automatic reaction network generator for reactive molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 683-691.	2.8	54
2	Theoretical Study of the Reaction Mechanism of BO, B ₂ O ₂ , and BS with H ₂ . <i>Journal of Physical Chemistry A</i> , 2004, 108, 473-483.	2.5	27
3	Exploring the dynamics of reaction N(2D)+C ₂ H ₄ with crossed molecular-beam experiments and quantum-chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8515.	2.8	23
4	Photoisomerization and Infrared Spectra of Allene and Propyne Cations in Solid Argon. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3185-3189.	4.6	22
5	Identification of C ₄ H ₅ , C ₄ H ₄ , C ₃ H ₃ and CH ₃ radicals produced from the reaction of atomic carbon with propene: Implications for the atmospheres of Titan and giant planets and for the interstellar medium. <i>Icarus</i> , 2013, 222, 254-262.	2.5	19
6	Ab initio studies of excited electronic state S ₂ of pyrazine and Franck-Condon simulation of its absorption spectrum. <i>Chemical Physics Letters</i> , 2009, 476, 19-24.	2.6	18
7	Exploring the Dynamics of Reaction C(³ P) + C ₂ H ₄ with Crossed Beam/Photoionization Experiments and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7615-7622.	2.5	16
8	Theoretical investigations of spectroscopy and excited state dynamics of adenine. <i>Chemical Physics Letters</i> , 2007, 445, 361-369.	2.6	15
9	INFRARED AND ULTRAVIOLET SPECTRA OF METHANE DILUTED IN SOLID NITROGEN AND IRRADIATED WITH ELECTRONS DURING DEPOSITION AT VARIOUS TEMPERATURES. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 17.	7.7	13
10	Theoretical study of the reaction mechanism of boron atom with carbon dioxide. <i>Chemical Physics Letters</i> , 2003, 375, 670-675.	2.6	10
11	Evidence for Synchronous Concerted Three-Body Dissociation of Propenal to C ₂ H ₂ +CO+H ₂ . <i>ChemPhysChem</i> , 2011, 12, 753-756.	2.1	10
12	Photodissociation and infrared spectra of ethylene cations in solid argon. <i>Chemical Physics Letters</i> , 2015, 630, 96-100.	2.6	9
13	Cyclopentadienyl radical formation from the reaction of excited nitrogen atoms with benzene: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12408-12420.	2.8	9
14	Dynamics of the reaction of C ₂ with C ₆ H ₂ : An implication for the formation of interstellar C ₈ H. <i>Journal of Chemical Physics</i> , 2014, 141, 194305.	3.0	8
15	SEARCHING FOR INTERSTELLAR MOLECULE BUTATRIENYLIDENE IN REACTION C ₂ +C ₂ H ₄ . <i>Astrophysical Journal</i> , 2012, 759, 75.	4.5	7
16	Theoretical investigations of absorption and fluorescence spectra of protonated pyrene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14569-14579.	2.8	7
17	Theoretical study on S ₁ (1B _{3u}) state electronic structure and absorption spectrum of pyrazine. <i>Science in China Series B: Chemistry</i> , 2008, 51, 1166-1173.	0.8	6
18	Dynamics of the reaction of C ₃ (¹ Σ ⁺) radicals with C ₂ H ₂ : A new source for the formation of C ₅ H. <i>Journal of Chemical Physics</i> , 2014, 141, 124314.	3.0	6

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19	Direct infrared observation of hydrogen chloride anions in solid argon. <i>Journal of Chemical Physics</i> , 2017, 147, 114301.	3.0	6
20	Infrared Spectra of the 1-Methylvinoxide Radical and Anion Isolated in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4750-4754.	2.5	6
21	UV absorption spectrum of allene radical cations in solid argon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 196, 233-237.	3.9	5
22	Formation mechanism and spectroscopy of C ₆ H radicals in extreme environments: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23044-23055.	2.8	5
23	An ab initio/RRKM study of the reaction mechanism and product branching ratios of CH ₃ OH ⁺ and CH ₃ OH ⁺⁺ dissociation. <i>Journal of Molecular Structure</i> , 2020, 1217, 128410.	3.6	4
24	Excited state photochemically driven surface formation of benzene from acetylene ices on Pluto and in the outer solar system. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1424-1436.	2.8	4
25	Formation of Halogen-bearing Species. I. Irradiation of Methyl Fluorides in Carbon Monoxide Ice with VUV Light and Electrons. <i>Astrophysical Journal</i> , 2019, 880, 132.	4.5	3
26	Exploring the dynamics of C/H and C/Cl exchanges in the C(3P) + C ₂ H ₃ Cl reaction. <i>Journal of Chemical Physics</i> , 2013, 139, 134301.	3.0	2
27	Dynamics of carbon-hydrogen and carbon-methyl exchanges in the collision of 3P atomic carbon with propene. <i>Journal of Chemical Physics</i> , 2013, 139, 174317.	3.0	2
28	Formation of Halogen-bearing Species. II. Irradiation of Chloromethane in Carbon Monoxide Ice with VUV Light and Electrons. <i>Astrophysical Journal</i> , 2020, 888, 39.	4.5	2
29	Reaction mechanism and product branching ratios of OH+C ₂ H ₃ F reaction: A theoretical study. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 203-209.	1.3	1
30	Fragment-Based Ab Initio Molecular Dynamics Simulation for Combustion. <i>Molecules</i> , 2021, 26, 3120.	3.8	1
31	Infrared spectra of isotopomers of chloromethylene in solid argon. <i>Journal of Molecular Spectroscopy</i> , 2018, 345, 17-21.	1.2	0