

Doddipatla Srinivas

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

185
citations

1307594

7
h-index

1199594

12
g-index

29
all docs

29
docs citations

29
times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature gas-phase formation of indene in the interstellar medium. <i>Science Advances</i> , 2021, 7, .	10.3	42
2	A chemical dynamics study on the gas phase formation of thioformaldehyde (H_2CS) and its thiohydroxycarbene isomer (HCSH). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22712-22719.	7.1	18
3	A chemical dynamics study of the reaction of the methylidyne radical (CH , $X^{2\Sigma^+}$) with dimethylacetylene (CH_3CCCH_3 , $X^1\text{A}_g$). <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 578-593.	2.8	12
4	Rate coefficients of hydroxyl radical reaction with dimethyl ether over a temperature range of 257–333 K. <i>Chemical Physics Letters</i> , 2018, 706, 558-563.	2.6	10
5	Nonadiabatic reaction dynamics to silicon monosulfide (SiS): A key molecular building block to sulfur-rich interstellar grains. <i>Science Advances</i> , 2021, 7, .	10.3	10
6	Gas-phase synthesis of corannulene – a molecular building block of fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5740-5749.	2.8	10
7	Dynamics of Cl(2P _j) formation in the photodissociation of halogenated thiadiazole at 235 nm: A resonance enhanced multiphoton ionization-time of flight (REMPI-TOF) study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 322-323, 41-52.	3.9	8
8	Kinetics of gas phase OH radical reaction with thiophene in the 272–353 K temperature range: A laser induced fluorescence study. <i>Chemical Physics Letters</i> , 2017, 682, 154-159.	2.6	8
9	A Barrierless Pathway Accessing the C ₉ H ₉ and C ₉ H ₈ Potential Energy Surfaces via the Elementary Reaction of Benzene with 1-Propynyl. <i>Scientific Reports</i> , 2019, 9, 17595.	3.3	7
10	Gas-Phase Synthesis of 3-Vinylcyclopropene via the Crossed Beam Reaction of the Methylidyne Radical (CH , $X^2\Sigma^+$) with 1,3-Butadiene ($\text{CH}_2\text{CHCHCH}_2$; $X^1\text{A}_g$). <i>ChemPhysChem</i> , 2020, 21, 1295-1309.	2.1	7
11	On the Synthesis of the Astronomically Elusive 1-Ethynyl-3-Silacyclopropenylidene ($c\text{-SiC}_4\text{H}_2$) Molecule in Circumstellar Envelopes of Carbon-rich Asymptotic Giant Branch Stars and Its Potential Role in the Formation of the Silicon Tetracarbide Chain (SiC_4). <i>Astrophysical Journal Letters</i> , 2021, 908, L40.	8.3	7
12	Gas-Phase Formation of C ₅ H ₆ Isomers via the Crossed Molecular Beam Reaction of the Methylidyne Radical (CH , $X^{2\Sigma^+}$) with 1,2-Butadiene ($\text{CH}_3\text{CHCCH}_2$; $X^1\text{A}^2$). <i>Journal of Physical Chemistry A</i> , 2021, 125, 126-138.	2.5	6
13	Chlorine atom formation dynamics in the dissociation of halogenated pyridines after photoexcitation at 235 nm: A resonance enhanced multiphoton ionization-time of flight (REMPI-TOF) study. <i>Chemical Physics</i> , 2016, 472, 208-217.	1.9	5
14	Chemical dynamics study on the gas-phase reaction of the D1-silylidyne radical (SiD , $X^{2\Sigma^+}$) with deuterium sulfide (D_2S) and hydrogen sulfide (H_2S). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13647-13661.	2.8	5
15	Directed Gas Phase Formation of Silene (H_2SiCH_2). <i>Chemistry - A European Journal</i> , 2020, 26, 13584-13589.	3.3	4
16	Gas Phase Formation of Methylgermylene (HGeCH_3). <i>ChemPhysChem</i> , 2020, 21, 1898-1904.	2.1	4
17	Non-Adiabatic Reaction Dynamics in the Gas-Phase Formation of Phosphinidenesilylene, the Isovalent Counterpart of Hydrogen Isocyanide, under Single-Collision Conditions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2489-2495.	4.6	4
18	Crossed Beam Experiments and Computational Studies of Pathways to the Preparation of Singlet Ethynylsilylene (HCCSiH ; $X^1\text{A}^2$): The Silacarbene Counterpart of Triplet Propargylene (HCCCH ; $X^3\text{B}$). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10768-10776.	4.6	4

#	ARTICLE	IF	CITATIONS
19	Ground state dissociation pathways for 3,4-dichloro-1,2,5-thiadiazole: Spectroscopic observation and fate of NC C(Cl ₂) N S isomer. <i>Chemical Physics Letters</i> , 2016, 660, 182-188.	2.6	3
20	Gas Phase OH Radical Reaction with 2-Chloroethyl Vinyl Ether in the 256-333 K Temperature Range: A Combined LIF and Computational Study. <i>ChemistrySelect</i> , 2018, 3, 5910-5919.	1.5	3
21	Directed Gas Phase Formation of the Elusive Silylgermylydine Radical (H ₃ SiGe, X ₂). <i>ChemPhysChem</i> , 2021, 22, 184-191.	2.1	3
22	Dissociation pathways for the molecular cation of 3,4-dichloro-1,2,5-thiadiazole: A time-of-flight mass spectrometry and computational study. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 121-128.	1.5	2
23	Resonance enhanced multiphoton ionization time of flight (REMPI-TOF) detection of Br (2P _j) atoms in the photodissociation of 4-bromo-2,3,5,6-tetrafluoropyridine at 234 nm: Effect of low-lying $\tilde{\Gamma}_1^*$ states. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 345, 1-10.	3.9	1
24	A Crossed Molecular Beams and Computational Study of the Formation of the Astronomically Elusive Thiosilaformyl Radical (HSiS, X ₂). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5979-5986.	4.6	1
25	Combined Crossed Molecular Beams and Ab Initio Study of the Bimolecular Reaction of Ground State Atomic Silicon (Si; 3P) with Germane (GeH ₄ ; X _{1A1}). <i>ChemPhysChem</i> , 2021, 22, 1497-1504.	2.1	1
26	Resonance enhanced multiphoton ionisation (REMPI) detection of Cl(2P _j) atom in the photodissociation of halogenated pyrimidines at 235 nm: role of triplet states. <i>Molecular Physics</i> , 2019, 117, 1882-1893.	1.7	0
27	Gas Phase Synthesis of the Elusive Trisilacyclopropyl Radical (Si ₃ H ₅) via Unimolecular Decomposition of Chemically Activated Doublet Trisilapropyl Radicals (Si ₃ H ₇). <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7874-7881.	4.6	0
28	Directed gas-phase preparation of the elusive phosphinosilylydine (SiPH ₂ , X ₂) and cis/trans phosphinidenesilyl (HSiPH; X ₂) radicals under single-collision conditions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18506-18516.	2.8	0
29	Gas-phase Synthesis of Silaformaldehyde (H ₂ SiO) and Hydroxysilylene (HSiOH) in Outflows of Oxygen-rich Asymptotic Giant Branch Stars. <i>Astrophysical Journal Letters</i> , 2021, 921, L7.	8.3	0