

Doddipatla Srinivas

List of Publications by Year in descending order

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29
papers

185
citations

1307594

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1199594

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all docs

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docs citations

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times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	Directed Gas Phase Formation of the Elusive Silylgermylidyne Radical (H_3SiGe , $X_2A\hat{e}^2\hat{e}^2$). <i>ChemPhysChem</i> , 2021, 22, 184-191.	2.1	3
2	Chemical dynamics study on the gas-phase reaction of the D1-silylidyne radical (SiD ; $X_{sup}2_{sup}\hat{i}$) with deuterium sulfide (D_2S) and hydrogen sulfide (H_2S). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13647-13661.	2.8	5
3	Gas-Phase Formation of C_5H_6 Isomers via the Crossed Molecular Beam Reaction of the Methylidyne Radical (CH ; $X_{sup}2_{sup}\hat{i}$) with 1,2-Butadiene (CH_3CHCCH_2 ; $X_{sup}1_{sup}A\hat{e}^2$). <i>Journal of Physical Chemistry A</i> , 2021, 125, 126-138.	2.5	6
4	Low-temperature gas-phase formation of indene in the interstellar medium. <i>Science Advances</i> , 2021, 7, .	10.3	42
5	On the Synthesis of the Astronomically Elusive 1-Ethynyl-3-Silacyclopropenylidene ($c-SiC_4H_2$) 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, 140.	8.3	7
6	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
7	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
8	A Crossed Molecular Beams and Computational Study of the Formation of the Astronomically Elusive Thiosilaformyl Radical ($HSiS$, $X_2A\hat{e}^2$). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5979-5986.	4.6	1
9	Combined Crossed Molecular Beams and Ab Initio Study of the Bimolecular Reaction of Ground State Atomic Silicon (Si ; 3 P) with Germane (GeH_4 ; X_1A_1). <i>ChemPhysChem</i> , 2021, 22, 1497-1504.	2.1	1
10	Directed gas-phase preparation of the elusive phosphinosilylidyne ($SiPH_2$, $X_2A\hat{e}^2\hat{e}^2$) and cis/trans phosphinidenesilyl ($HSiPH$; $X_2A\hat{e}^2$) radicals under single-collision conditions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18506-18516.	2.8	0
11	Gas-phase synthesis of corannulene – a molecular building block of fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5740-5749.	2.8	10
12	Crossed Beam Experiments and Computational Studies of Pathways to the Preparation of Singlet Ethynylsilylene ($HCCSiH$; $X_1A\hat{e}^2$): The Silacarbene Counterpart of Triplet Propargylene ($HCCCH$; X_3B). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10768-10776.	4.6	4
13	Gas-phase Synthesis of Silaformaldehyde (H_2SiO) and Hydroxysilylene ($HSiOH$) in Outflows of Oxygen-rich Asymptotic Giant Branch Stars. <i>Astrophysical Journal Letters</i> , 2021, 921, L7.	8.3	0
14	A chemical dynamics study of the reaction of the methylidyne radical (CH , $X_{sup}2_{sup}\hat{i}$) with dimethylacetylene (CH_3CCCH_3 , $X_{sup}1_{sup}A_{sup}1g$). <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 578-593.	2.8	12
15	Gas Phase Synthesis of the Elusive Trisilacyclopropyl Radical (Si_3H_5) via Unimolecular Decomposition of Chemically Activated Doublet Trisilapropyl Radicals (Si_3H_7). <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7874-7881.	4.6	0
16	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
17	Gas-Phase Synthesis of 3-Vinylcyclopropene via the Crossed Beam Reaction of the Methylidyne Radical (CH ; $X_2\hat{i}$) with 1,3-Butadiene ($CH_2CHCHCH_2$; X_1A_g). <i>ChemPhysChem</i> , 2020, 21, 1295-1309.	2.1	7
18	Directed Gas Phase Formation of Silene (H_2SiCH_2). <i>Chemistry - A European Journal</i> , 2020, 26, 13584-13589.	3.3	4

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19	Gas Phase Formation of Methylgermylene (HGeCH ₃). ChemPhysChem, 2020, 21, 1898-1904.	2.1	4
20	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. Scientific Reports, 2019, 9, 17595.	3.3	7
21	Resonance enhanced multiphoton ionisation (REMPI) detection of Cl(2P _j) atom in the photodissociation of halogenated pyrimidines at 235 nm: role of triplet states. Molecular Physics, 2019, 117, 1882-1893.	1.7	0
22	Rate coefficients of hydroxyl radical reaction with dimethyl ether over a temperature range of 257–333 K. Chemical Physics Letters, 2018, 706, 558-563.	2.6	10
23	Gas Phase OH Radical Reaction with 2-Chloroethyl Vinyl Ether in the 256–333 K Temperature Range: A Combined LP-LIF and Computational Study. ChemistrySelect, 2018, 3, 5910-5919.	1.5	3
24	Kinetics of gas phase OH radical reaction with thiophene in the 272–353 K temperature range: A laser induced fluorescence study. Chemical Physics Letters, 2017, 682, 154-159.	2.6	8
25	Dissociation pathways for the molecular cation of 3,4-dichloro-1,2,5-thiadiazole: A time-of-flight mass spectrometry and computational study. Rapid Communications in Mass Spectrometry, 2017, 31, 121-128.	1.5	2
26	Resonance enhanced multiphoton ionization (REMPI) 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 $\tilde{\text{I}}_f^*$ states. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 345, 1-10.	3.9	1
27	Ground state dissociation pathways for 3,4-dichloro-1,2,5-thiadiazole: Spectroscopic observation and fate of NC C(Cl ₂) N S isomer. Chemical Physics Letters, 2016, 660, 182-188.	2.6	3
28	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. Chemical Physics, 2016, 472, 208-217.	1.9	5
29	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. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 322-323, 41-52.	3.9	8