Tao Yang

List of Publications by Year
in descending order

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		81743	106150
151	4,970	39	65
papers	citations	h-index	g-index

155	155	155	2373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High resolution spectroscopic measurement of 130Te2: Reference lines near 444.4Ânm for eEDM experiment using PbF molecules. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120754.	2.0	1
2	Excited state photochemically driven surface formation of benzene from acetylene ices on Pluto and in the outer solar system. Physical Chemistry Chemical Physics, 2022, 24, 1424-1436.	1.3	4
3	Synthesis of Dual Redâ€Emitting Fluorescent Silver Nanoclusters in Aqueous Lipoic Acidâ€Based Polymer Solutions and Application for Cu²⁺ Detection and Cell Imaging. ChemistrySelect, 2022, 7, .	0.7	2
4	Formation of Benzene and Naphthalene through Cyclopentadienyl-Mediated Radicalâ€“Radical Reactions. Journal of Physical Chemistry Letters, 2022, 13, 208-213.	2.1	14
5	Three-dimensional magneto-optical trapping model of the CaH molecule based on multi-energy-level rate equation. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	1
6	Gas-Phase Preparation of Silyl Cyanide (SiH₃CN) via a Radical Substitution Mechanism. Journal of the American Chemical Society, 2022, 144, 8649-8657.	6.6	5
7	Controllable three-dimensional electrostatic lattices for manipulation of cold polar molecules. Physical Review A, 2022, 105, .	1.0	2
8	Formation of the Elusive Silylenemethyl Radical (HCSiH₂; X²B₂) via the Unimolecular Decomposition of Triplet Silaethylene (H₂CSiH₂;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.1	2
9	Gas-Phase Preparation of Subvalent Germanium Monoxide (GeO, X¹Î£⁺) via Non-Adiabatic Reaction Dynamics in the Exit Channel. Journal of Physical Chemistry Letters, 2022, 13, 4589-4597.	2.1	2
10	Laser cooling of Yb3+:LuLiF4 crystal below cryogenic temperature to 121â€‰K. Applied Physics Letters, 2022, 120, .	1.5	5
11	Directed Gas Phase Formation of the Elusive Silylgermylidyne Radical (H 3 SiGe, X 2 Aâ€²â€²). ChemPhysChem, 2021, 22, 184-191.	1.0	3
12	Chemical dynamics study on the gas-phase reaction of the D1-silylidyne radical (SiD; X²Î) with deuterium sulfide (D₂S) and hydrogen sulfide (H₂S). Physical Chemistry Chemical Physics, 2021, 23, 13647-13661.	1.3	5
13	A molecular beam and computational study on the barrierless gas phase formation of (iso)quinoline in low temperature extraterrestrial environments. Physical Chemistry Chemical Physics, 2021, 23, 18495-18505.	1.3	5
14	Gas-Phase Formation of C₅H₆ Isomers via the Crossed Molecular Beam Reaction of the Methylidyne Radical (CH; X²Î) with 1,2-Butadiene (CH₃CHCCH₂; X¹Aâ€²). Journal of Physical Chemistry A, 2021, 125, 126-138.	1.1	6
15	Combined Experimental and Computational Study on the Reaction Dynamics of the D1-Silylidyne(SiD) â€“ Silane (SiH4) System. Journal of Physical Chemistry A, 2021, 125, 2472-2479.	1.1	3
16	A vacuum ultraviolet photoionization study on the isomerization, decomposition, and molecular mass growth processes in solid nitromethane (CH3NO2). Chemical Physics Letters, 2021, 766, 138343.	1.2	6
17	Optical refrigeration of the Yb3+-doped YAG crystal close to the thermoelectric cooling limit. Applied Physics Letters, 2021, 118, .	1.5	5
18	An Aromatic Universeâ€“A Physical Chemistry Perspective. Journal of Physical Chemistry A, 2021, 125, 3826-3840.	1.1	60

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19	Gas-phase synthesis of benzene via the propargyl radical self-reaction. Science Advances, 2021, 7, .	4.7	34
20	Nonadiabatic reaction dynamics to silicon monosulfide (SiS): A key molecular building block to sulfur-rich interstellar grains. Science Advances, 2021, 7, .	4.7	10
21	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 1 A 1). ChemPhysChem, 2021, 22, 1497-1504.	1.0	1
22	Reaction Dynamics Study of the Molecular Hydrogen Loss Channel in the Elementary Reactions of Ground-State Silicon Atoms (Si(³P)) With 1- and 2-Methyl-1,3-Butadiene (C₅H₈). Journal of Physical Chemistry A, 2021, 125, 5040-5047.	1.1	2
23	Directed gas-phase preparation of the elusive phosphinosilylidyne (SiPH2, X2Aâ€²â€²) and cis/trans phosphinidenesilyl (HSiPH; X2Aâ€²) radicals under single-collision conditions. Physical Chemistry Chemical Physics, 2021, 23, 18506-18516.	1.3	0
24	Synthesis of highly stable fluorescent poly(methacrylic acid-co-itaconic)-protected silver nanoclusters and sensitive detection of Cu²⁺. RSC Advances, 2021, 11, 20720-20724.	1.7	4
25	Gas-phase synthesis of corannulene â€“ a molecular building block of fullerenes. Physical Chemistry Chemical Physics, 2021, 23, 5740-5749.	1.3	10
26	Crossed Beam Experiments and Computational Studies of Pathways to the Preparation of Singlet Ethynylsilylene (HCCSiH; X1Aâ€²): The Silacarbene Counterpart of Triplet Propargylene (HCCCH; X3B). Journal of Physical Chemistry Letters, 2021, 12, 10768-10776.	2.1	4
27	Gas-phase Synthesis of Silaformaldehyde (H₂SiO) and Hydroxysilylene (HSiOH) in Outflows of Oxygen-rich Asymptotic Giant Branch Stars. Astrophysical Journal Letters, 2021, 921, L7.	3.0	0
28	Synthesis, surface activities and aggregation properties of asymmetric Gemini surfactants. Physical Chemistry Chemical Physics, 2021, 23, 27460-27467.	1.3	4
29	Gas Phase Preparation of the Elusive Monobridged Ge(Î¼ â€H)GeH Molecule through Nonadiabatic Reaction Dynamics. Chemistry - A European Journal, 2021, , .	1.7	1
30	A Unified Mechanism on the Formation of Acenes, Helicenes, and Phenacenes in the Gas Phase. Angewandte Chemie - International Edition, 2020, 59, 4051-4058.	7.2	18
31	Iodoindenes: Synthesis and application to cross-coupling. Tetrahedron Letters, 2020, 61, 152427.	0.7	2
32	Interstellar Formation of Biorelevant Pyruvic Acid (CH3COCOOH). CheM, 2020, 6, 3385-3395.	5.8	27
33	Gas phase formation of cyclopentanaphthalene (benzindene) isomers via reactions of 5- and 6-indenyl radicals with vinylacetylene. Physical Chemistry Chemical Physics, 2020, 22, 22493-22500.	1.3	13
34	A chemical dynamics study on the gas phase formation of thioformaldehyde (H₂CS) and its thiohydroxycarbene isomer (HCSH). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22712-22719.	3.3	18
35	Exploiting Photoionization Reflectron Time-of-Flight Mass Spectrometry to Explore Molecular Mass Growth Processes to Complex Organic Molecules in Interstellar and Solar System Ice Analogs. Accounts of Chemical Research, 2020, 53, 2791-2805.	7.6	42
36	An Experimental and Theoretical Investigation into the Formation of Ketene (H₂CCO) and Ethynol (HCCOH) in Interstellar Analog Ices. Astrophysical Journal, 2020, 896, 88.	1.6	23

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37	A Unified Mechanism on the Formation of Acenes, Helicenes, and Phenacenes in the Gas Phase. Angewandte Chemie, 2020, 132, 4080-4087.	1.6	5
38	A scalable two-dimensional moving electric lattice on a chip for polar molecules. Optics Communications, 2020, 475, 126208.	1.0	2
39	Gas phase formation of phenalene via 10Ï€-aromatic, resonantly stabilized free radical intermediates. Physical Chemistry Chemical Physics, 2020, 22, 15381-15388.	1.3	15
40	Laser cooling of the Yb3+-doped LuLiF4 single crystal for optical refrigeration. Journal of Luminescence, 2020, 226, 117472.	1.5	8
41	Implications for Extraterrestrial Hydrocarbon Chemistry: Analysis of Acetylene (C₂H₂) and D2-acetylene (C₂D₂) Ices Exposed to Ionizing Radiation via Ultravioletâ€“Visible Spectroscopy, Infrared Spectroscopy, and Reflectron Time-of-flight Mass Spectrometry. Astrophysical Journal, 2020, 889, 3.	1.6	19
42	An Interstellar Synthesis of Glycerol Phosphates. Astrophysical Journal Letters, 2020, 899, L3.	3.0	9
43	Molecular mass growth through ring expansion in polycyclic aromatic hydrocarbons via radicalâ€“radical reactions. Nature Communications, 2019, 10, 3689.	5.8	59
44	On the formation of complex organic molecules in the interstellar medium: untangling the chemical complexity of carbon monoxideâ€“hydrocarbon containing ice analogues exposed to ionizing radiation via a combined infrared and reflectron time-of-flight analysis. Physical Chemistry Chemical Physics, 2019, 21, 16949-16980.	1.3	35
45	Gas phase formation of c-SiC ₃ molecules in the circumstellar envelope of carbon stars. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14471-14478.	3.3	19
46	Synthesis of Polycyclic Aromatic Hydrocarbons by Phenyl Additionâ€“Dehydrocyclization: The Third Way. Angewandte Chemie, 2019, 131, 17603-17611.	1.6	21
47	Low-temperature synthesis of polycyclic aromatic hydrocarbons in Titanâ€™s surface ices and on airless bodies. Science Advances, 2019, 5, eaaw5841.	4.7	29
48	Probing the Reaction Mechanisms Involved in the Decomposition of Solid 1,3,5-Trinitro-1,3,5-triazinane by Energetic Electrons. Journal of Physical Chemistry A, 2019, 123, 9479-9497.	1.1	6
49	Untangling the Formation of Methoxymethanol (CH₃OCH₂OH) and Dimethyl Peroxide (CH₃OOCH₃) in Star-forming Regions. Astrophysical Journal, 2019, 881, 156.	1.6	24
50	Synthesis of Polycyclic Aromatic Hydrocarbons by Phenyl Additionâ€“Dehydrocyclization: The Third Way. Angewandte Chemie - International Edition, 2019, 58, 17442-17450.	7.2	30
51	Space Weatheringâ€Induced Formation of Hydrogen Sulfide (H 2 S) and Hydrogen Disulfide (H 2 S 2) in the Murchison Meteorite. Journal of Geophysical Research E: Planets, 2019, 124, 2772-2779.	1.5	5
52	Controllable chip-based beam splitter for cold polar molecules. Physical Review A, 2019, 100, .	1.0	1
53	Origin of alkylphosphonic acids in the interstellar medium. Science Advances, 2019, 5, eaaw4307.	4.7	14
54	Gasâ€Phase Synthesis of Triphenylene (C 18 H 12). ChemPhysChem, 2019, 20, 791-797.	1.0	13

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55	Combined Experimental and Computational Study on the Reaction Dynamics of the 1-Propynyl (CH₃CC)â€“1,3-Butadiene (CH₂CHCHCH₂) System and the Formation of Toluene under Single Collision Conditions. Journal of Physical Chemistry A, 2019, 123, 4104-4118.	1.1	13
56	Reactivity of the Indenyl Radical (C₉H₇) with Acetylene (C₂H₂) and Vinylacetylene (C₄H₄). ChemPhysChem, 2019, 20, 1437-1447.	1.0	21
57	Gas phase synthesis of [4]-helicene. Nature Communications, 2019, 10, 1510.	5.8	27
58	Directed Gas-Phase Formation of the Germaniumsilylene Butterfly Molecule (Ge(Î¼-H₂)Si). Journal of Physical Chemistry Letters, 2019, 10, 1264-1271.	2.1	6
59	A combined experimental and computational study on the reaction dynamics of the 1-propynyl radical (CH₃CC; X²A₁) with ethylene (H₂CCH₂;) Tj ETQq1 1 0.784314 rgBT /((CH₂CHCCCH₃; X¹Aâ€²). Physical Chemistry Chemical Physics, 2019, 21,	1.3	8
60	On the formation and the isomer specific detection of methylacetylene (CH₃CCH), propene (CH₃CHCH₂), cyclopropane (c-C₃H₆), vinylacetylene (CH₂CHCCH), and 1,3-butadiene (CH₂CHCHCH₂) from interstellar methane ice analogues. Physical Chemistry Chemical Physics, 2019, 21, 5378-5393.	1.3	30
61	A crossed molecular beams investigation of the reactions of atomic silicon (Si(3P)) with C4H6 isomers (1,3-butadiene, 1,2-butadiene, and 1-butyne). Chemical Physics, 2019, 520, 70-80.	0.9	3
62	Directed gas phase formation of silicon dioxide and implications for the formation of interstellar silicates. Nature Communications, 2018, 9, 774.	5.8	23
63	Pyrene synthesis in circumstellar envelopes and its role in the formation of 2D nanostructures. Nature Astronomy, 2018, 2, 413-419.	4.2	62
64	An Infrared Spectroscopic Study Toward the Formation of Alkylphosphonic Acids and Their Precursors in Extraterrestrial Environments. Astrophysical Journal, Supplement Series, 2018, 234, 6.	3.0	18
65	VUV Photoionization Study of the Formation of the Simplest Polycyclic Aromatic Hydrocarbon: Naphthalene (C₁₀H₈). Journal of Physical Chemistry Letters, 2018, 9, 2620-2626.	2.1	57
66	Computational Study on the Unimolecular Decomposition of JP-8 Jet Fuel Surrogates III: Butylbenzene Isomers (n-, s-, and t-C₁₄H₁₀). Journal of Physical Chemistry A, 2018, 122, 3980-4001.	1.1	16
67	Combined Experimental and Computational Investigation of the Elementary Reaction of Ground State Atomic Carbon (C; ³P_j) with Pyridine (C₅H₅N;) Tj ETQq1 1 0.784314 rgBT /(Chemistry A, 2018, 122, 3128-3139.	1.1	7
68	Low-temperature formation of polycyclic aromatic hydrocarbons in Titanâ€™s atmosphere. Nature Astronomy, 2018, 2, 973-979.	4.2	72
69	An interstellar synthesis of phosphorus oxoacids. Nature Communications, 2018, 9, 3851.	5.8	33
70	A Theoretical Study of Pyrolysis of exo-Tetrahydrodicyclopentadiene and Its Primary and Secondary Unimolecular Decomposition Products. Journal of Physical Chemistry A, 2018, 122, 4920-4934.	1.1	28
71	Are Nonadiabatic Reaction Dynamics the Key to Novel Organosilicon Molecules? The Silicon (Si(³P))â€“Dimethylacetylene (C₄H₆(X¹A_{1g})) System as a Case Study. Journal of Physical Chemistry Letters, 2018, 9, 3340-3347.	2.1	7
72	A Combined Experimental and Computational Study on the Reaction Dynamics of the 1-Propynyl (CH₃CC)â€“Acetylene (HCCH) System and the Formation of Methyldiacetylene (CH₃CCCCH). Journal of Physical Chemistry A, 2018, 122, 6663-6672.	1.1	12

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73	A Vacuum Ultraviolet Photoionization Study on the Formation of N-methyl Formamide (HCONHCH₃) in Deep Space: A Potential Interstellar Molecule with a Peptide Bond. Astrophysical Journal, 2018, 862, 84.	1.6	22
74	Bimolecular Reaction Dynamics in the Phenylâ€“Silane System: Exploring the Prototype of a Radical Substitution Mechanism. Journal of Physical Chemistry Letters, 2018, 9, 5135-5142.	2.1	3
75	Combined Experimental and Computational Study on the Unimolecular Decomposition of JP-8 Jet Fuel Surrogates. I. n-Decane (n-C₁₀H₂₂). Journal of Physical Chemistry A, 2017, 121, 1261-1280.	1.1	34
76	Formation Mechanisms of Naphthalene and Indene: From the Interstellar Medium to Combustion Flames. Journal of Physical Chemistry A, 2017, 121, 901-926.	1.1	130
77	Combined Experimental and Computational Study on the Unimolecular Decomposition of JP-8 Jet Fuel Surrogates. II: n-Dodecane (n-C₁₂H₂₆). Journal of Physical Chemistry A, 2017, 121, 1281-1297.	1.1	26
78	A vacuum ultraviolet photoionization study on high-temperature decomposition of JP-10 (exo-tetrahydrodicyclopentadiene). Physical Chemistry Chemical Physics, 2017, 19, 15780-15807.	1.3	38
79	A Freeâ€Radical Pathway to Hydrogenated Phenanthrene in Molecular Cloudsâ€”Low Temperature Growth of Polycyclic Aromatic Hydrocarbons. ChemPhysChem, 2017, 18, 1971-1976.	1.0	12
80	HACA's Heritage: A Freeâ€Radical Pathway to Phenanthrene in Circumstellar Envelopes of Asymptotic Giant Branch Stars. Angewandte Chemie - International Edition, 2017, 56, 4515-4519.	7.2	48
81	HACA's Heritage: A Freeâ€Radical Pathway to Phenanthrene in Circumstellar Envelopes of Asymptotic Giant Branch Stars. Angewandte Chemie, 2017, 129, 4586-4590.	1.6	20
82	Gasâ€Phase Formation of the Disilavinylidene (H 2 SiSi) Transient. Angewandte Chemie, 2017, 129, 1284-1288.	1.6	7
83	Gasâ€Phase Formation of the Disilavinylidene (H₂SiSi) Transient. Angewandte Chemie - International Edition, 2017, 56, 1264-1268.	7.2	17
84	Gas-Phase Synthesis of the Elusive Trisilicontetrahydride Species (Si3H4). Journal of Physical Chemistry Letters, 2017, 8, 131-136.	2.1	2
85	Gasâ€Phase Synthesis of the Elusive Cyclooctatetraenyl Radical (C₈H₇) via Triplet Aromatic Cyclooctatetraene (C₈H₈) and Nonâ€Aromatic Cyclooctatriene (C₈H₈) Intermediates. Angewandte Chemie - International Edition, 2017, 56, 13655-13660.	7.2	2
86	InnenrÃ¼cktitelbild: Gasâ€Phase Formation of the Disilavinylidene (H₂SiSi) Transient (Angew.) Tj ETQq0 0 0 rgBT /Overlock	1.6	0
87	Formation of Methylamine and Ethylamine in Extraterrestrial Ices and Their Role as Fundamental Building Blocks of Proteinogenic Î±-amino Acids. Astrophysical Journal, 2017, 845, 83.	1.6	38
88	A study of interstellar aldehydes and enols as tracers of a cosmic ray-driven nonequilibrium synthesis of complex organic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7727-7732.	3.3	99
89	A Combined Experimental and Theoretical Study on the Formation of the 2-Methyl-1-silacycloprop-2-enylidene Molecule via the Crossed Beam Reactions of the Silylidyne Radical (SiH; X²Î) with Methylacetylene (CH₃CCH; X¹A₁) and D4-Methylacetylene (CD₃CCD; X¹A₁). Journal of Physical Chemistry A, 2016, 120, 4873-4883.	1.1	7
90	Formation of the 2,3-Dimethyl-1-silacycloprop-2-enylidene Molecule via the Crossed Beam Reaction of the Silylidyne Radical (SiH; X²Î) with Dimethylacetylene (CH₃CCCH₃; X¹A_{1g}). Journal of Physical Chemistry A, 2016, 120, 7262-7268.	1.1	3

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91	Oxidation of the para-Tolyl Radical by Molecular Oxygen under Single-Collison Conditions: Formation of the para-Toloxy Radical. Journal of Physical Chemistry Letters, 2016, 7, 5121-5127.	2.1	5
92	Hydrogenâ€Abstraction/Acetyleneâ€Addition Exposed. Angewandte Chemie, 2016, 128, 15207-15211.	1.6	7
93	Hydrogenâ€Abstraction/Acetyleneâ€Addition Exposed. Angewandte Chemie - International Edition, 2016, 55, 14983-14987.	7.2	48
94	Gasâ€Phase Synthesis of 1â€Silacyclopentaâ€2,4â€diene. Angewandte Chemie, 2016, 128, 8115-8119.	1.6	5
95	Gasâ€Phase Synthesis of 1â€Silacyclopentaâ€2,4â€diene. Angewandte Chemie - International Edition, 2016, 55, 7983-7987.	7.2	5
96	Untangling the reaction dynamics of the silylidyne radical (SiH; X2Î) with acetylene (C2H2; X1Î£g+). Chemical Physics Letters, 2016, 654, 58-62.	1.2	5
97	PROBING THE CARBONâ€“PHOSPHORUS BOND COUPLING IN LOW-TEMPERATURE PHOSPHINE (PH₃)â€“METHANE (CH₄) INTERSTELLAR ICE ANALOGUES. Astrophysical Journal, 2016, 819, 97.	1.6	29
98	Unexpected Chemistry from the Reaction of Naphthyl and Acetylene at Combustionâ€Like Temperatures. Angewandte Chemie - International Edition, 2015, 54, 5421-5424.	7.2	62
99	LOW TEMPERATURE FORMATION OF NITROGEN-SUBSTITUTED POLYCYCLIC AROMATIC HYDROCARBONS (PANHs)â€”BARRIERLESS ROUTES TO DIHYDRO(iso)QUINOLINES. Astrophysical Journal, 2015, 815, 115.	1.6	32
100	A combined crossed molecular beam and theoretical investigation of the reaction of the meta-tolyl radical with vinylacetylene â€“ toward the formation of methylnaphthalenes. Physical Chemistry Chemical Physics, 2015, 17, 21564-21575.	1.3	21
101	Formation of resonantly stabilised free radicals via the reactions of atomic carbon, dicarbon, and tricarbon with unsaturated hydrocarbons: theory and crossed molecular beams experiments. International Reviews in Physical Chemistry, 2015, 34, 461-514.	0.9	40
102	Formation of 5- and 6-methyl-1H-indene (C₁₀H₁₀) via the reactions of the para-tolyl radical (C₆H₄CH₃) with allene (H₂CCCH₂) and methylacetylene (HCCCH₃) under single collision conditions. Physical Chemistry Chemical Physics, 2015, 17, 10510-10519.	1.3	11
103	Formation of 2- and 1-methyl-1,4-dihydronaphthalene isomers via the crossed beam reactions of phenyl radicals (C₆H₅) with isoprene (CH₂C(CH₃)CHCH₂) and 1,3-pentadiene (CH₂CHCHCHCH₃). Physical Chemistry Chemical Physics, 2015, 17, 530-540.	1.3	9
104	Combined Experimental and Theoretical Study on the Formation of the Elusive 2-Methyl-1-silacycloprop-2-enylidene Molecule under Single Collision Conditions via Reactions of the Silylidyne Radical (SiH; X²Î) with Allene (H₂CCCH₂;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 217 T	1.1	14
105	Reaction Dynamics in Astrochemistry: Low-Temperature Pathways to Polycyclic Aromatic Hydrocarbons in the Interstellar Medium. Annual Review of Physical Chemistry, 2015, 66, 43-67.	4.8	109
106	Synthesis of Prebiotic Glycerol in Interstellar Ices. Angewandte Chemie - International Edition, 2015, 54, 195-200.	7.2	60
107	A photoionization mass spectroscopic study on the formation of phosphanes in low temperature phosphine ices. Physical Chemistry Chemical Physics, 2015, 17, 27281-27291.	1.3	72
108	A crossed molecular beam and ab initio study on the formation of 5- and 6-methyl-1,4-dihydronaphthalene (C₁₁H₁₂) via the reaction of meta-tolyl (C₇H₇) with 1,3-butadiene (C₄H₆). Physical Chemistry Chemical Physics, 2015, 17, 7699-7706.	1.3	7

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109	On the formation of ethynylbiphenyl (C14D5H5; C6D5C6H4CCH) isomers in the reaction of D5-phenyl radicals (C6D5; X2A1) with phenylacetylene (C6H5C2H; X1A1) under single collision conditions. Chemical Physics Letters, 2014, 595-596, 230-236.	1.2	13
110	Reaction dynamics of the 4-methylphenyl radical (C6H4CH3; p-tolyl) with isoprene (C5H8) â€“ formation of dimethyldihydronaphthalenes. Physical Chemistry Chemical Physics, 2014, 16, 16805-16814.	1.3	6
111	Directed Gas-Phase Formation of the Ethynylsulfidoboron Molecule. Journal of the American Chemical Society, 2014, 136, 8387-8392.	6.6	5
112	A combined crossed molecular beams and ab initio investigation on the formation of vinylsulfidoboron (C₂H₃¹¹B³²S). Physical Chemistry Chemical Physics, 2014, 16, 17580-17587.	1.3	4
113	Crossed Beam Reactions of the Phenyl (C₆H₅; X²A₁) and Phenyl-d₅ Radical (C₆D₅; X²A₁) with 1,2-Butadiene (H₂CCCHCH₃; X¹Aâ€²). Journal of Physical Chemistry A, 2014, 118, 4372-4381.	1.1	5
114	Reaction Dynamics of the 4-Methylphenyl Radical (p-Tolyl) with 1,2-Butadiene (1-Methylallene): Are Methyl Groups Purely Spectators?. Journal of Physical Chemistry A, 2014, 118, 6181-6190.	1.1	7
115	Hydrogen Abstraction/Acetylene Addition Revealed. Angewandte Chemie - International Edition, 2014, 53, 7740-7744.	7.2	132
116	Gasâ€Phase Synthesis of the Benzyl Radical (C₆H₅CH₂). Angewandte Chemie - International Edition, 2014, 53, 4608-4613.	7.2	22
117	ON THE FORMATION OF SILACYCLOPROPENYLIDENE (c-SiC₂H₂) AND ITS ROLE IN THE ORGANOSILICON CHEMISTRY IN THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2013, 770, 33.	1.6	22
118	A VUV photoionization study of the multichannel reaction of phenyl radicals with 1,3-butadiene under combustion relevant conditions. Physical Chemistry Chemical Physics, 2013, 15, 341-347.	1.3	49
119	Application of Reflectron Time-of-Flight Mass Spectroscopy in the Analysis of Astrophysically Relevant Ices Exposed to Ionization Radiation: Methane (CH₄) and D4-Methane (CD₄) as a Case Study. Journal of Physical Chemistry Letters, 2013, 4, 1965-1971.	2.1	102
120	Low temperature formation of naphthalene and its role in the synthesis of PAHs (Polycyclic Aromatic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf United States of America, 2012, 109, 53-58.	3.3	192
121	AN EXPERIMENTAL AND THEORETICAL STUDY OF THE IONIZATION ENERGIES OF SiC₂H_x(x= 0, 1, 2) ISOMERS. Astrophysical Journal, 2012, 761, 178.	1.6	30
122	First detection of the silylgermylene (H3SiGeH) and D4-silylgermylene (D3SiGeD) molecules in low temperature silaneâ€“germane ices. Chemical Physics, 2012, 409, 49-60.	0.9	6
123	A VUV Photoionization Study of the Combustion-Relevant Reaction of the Phenyl Radical (C₆H₅) with Propylene (C₃H₆) in a High Temperature Chemical Reactor. Journal of Physical Chemistry A, 2012, 116, 3541-3546.	1.1	32
124	Formation of nitric oxide and nitrous oxide in electron-irradiated H218O/N2 ice mixturesâ€”evidence for the existence of free oxygen atoms in interstellar and solar system analog ices. Physical Chemistry Chemical Physics, 2011, 13, 15749.	1.3	11
125	A VUV Photoionization Study of the Formation of the Indene Molecule and Its Isomers. Journal of Physical Chemistry Letters, 2011, 2, 1731-1735.	2.1	79
126	Formation of benzene in the interstellar medium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 452-457.	3.3	131

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127	DETERMINATION OF IONIZATION ENERGIES OF C_nN (n= 4-12): VACUUM ULTRAVIOLET PHOTOIONIZATION EXPERIMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2010, 717, 674-682.	1.6	31
128	COSMIC-RAY-MEDIATED FORMATION OF BENZENE ON THE SURFACE OF SATURNâ€™S MOON TITAN. Astrophysical Journal, 2010, 718, 1243-1251.	1.6	42
129	AN EXPERIMENTAL AND THEORETICAL STUDY ON THE IONIZATION ENERGIES OF POLYYNES (H-(Câ‰¡C)_n-H;n= 1-9). Astrophysical Journal, 2010, 719, 1884-1889.	1.6	52
130	On the ionization energies of C4H3 isomers. Chemical Physics Letters, 2010, 485, 281-285.	1.2	21
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