Alexander M Mebel

List of Articles by Year
in descending order

532 PR articles	14,120 PR citations	23704 55 PR h-index	19092 116 g-index
544 documents	15190 doc citations	25639 58 h-index	9332 citing authors

#	Article	IF	Citations
1	Binding the Power of Cycloaddition and Cross-Coupling in a Single Mechanism: An Unexpected Bending Journey to Radical Chemistry of Butadiynyl with Conjugated Dienes. Journal of Physical Chemistry Letters, 2025, 16, 658-666.	4.2	6
2	Directed Gas-Phase Formation of Azulene (C₁₀H₈): Unraveling the Bottom-Up Chemistry of Saddle-Shaped Aromatics. ACS Central Science, 2025, 11, 322-330.	9.2	2
3	Computational Study of the Gas-Phase Thermal Degradation and the Reaction Rate Coefficients of Perfluoroalkyl Ether Carboxylic Acids. Journal of Physical Chemistry A, 2025, 129, 1856-1868.	2.5	1
4	A Combined Crossed Molecular Beam and Theoretical Investigation of the Elementary Reaction of Tricarbon (C3(X1Î£g+)) with Diacetylene (C4H2(X1Î£g+)): Gas Phase Formation of the Heptatriynylidyne Radical (l-C7H(X2Î)). Journal of Physical Chemistry A, 2025, 129, 3931-3939.	2.5	1
5	Rate constants of the fulvenallenyl recombination with propargyl and its role in PAH formation: a theoretical and kinetic modeling study. Physical Chemistry Chemical Physics, 2025, 27, 11577-11596.	2.7	2
6	Vanadium-Mediated Carbon Isotope Exchange of Terminal Alkenes. Journal of the American Chemical Society, 2025, 147, 20212-20217.	15.0	6
7	Gas-phase synthesis of anthracene and phenanthrene via radical-radical reaction induced ring expansions. Science Advances, 2025, 11, .	10.9	4
8	Molecular Mass Growth Processes to Polycyclic Aromatic Hydrocarbons through Radicalâ€“Radical Reactions Exploiting Photoionization Reflectron Time-of-Flight Mass Spectrometry. Accounts of Chemical Research, 2025, 58, 2682-2694.	17.0	0
9	Methanetetrol and the final frontier in ortho acids. Nature Communications, 2025, 16, .	13.7	4
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19	Low-temperature formation of pyridine and (iso)quinoline via neutralâ€“neutral reactions. Nature Astronomy, 2024, 8, 856-864.	12.8	7
20	Mechanism and kinetics of the oxidation of propargyl radical by atomic oxygen. Proceedings of the Combustion Institute, 2024, 40, 105372.	4.4	3
21	Fulvenallenyl Radical (C7H5Â·)-Mediated Gas-Phase Synthesis of Bicyclic Aromatic C10H8 Isomers: Can Fulvenallenyl Efficiently React with Closed-Shell Hydrocarbons?. Journal of Physical Chemistry A, 2024, 128, 5707-5720.	2.5	7
22	Development of the detailed mechanism of pyrolysis and combustion of triphenyl phosphate: New quantum chemistry calculations and experimental data on structure of the H2/O2/Ar flame doped with TPP. Combustion and Flame, 2024, 266, 113534.	6.0	3
23	Gas-Phase Structures of Fucosylated Oligosaccharides: Alkali Metal and Halogen Influences. Journal of Physical Chemistry B, 2024, 128, 8869-8877.	2.7	4
24	Reaction mechanism of pyridine radicals with molecular oxygen: A theoretical study. Computational and Theoretical Chemistry, 2024, 1241, 114883.	2.5	1
25	Acetylene addition to the fulvenallenyl moiety in aromatic hydrocarbons. Proceedings of the Combustion Institute, 2024, 40, 105777.	4.4	2
26	Experimental and theoretical study of the Snâ€“O bond formation between atomic tin and molecular oxygen. Physical Chemistry Chemical Physics, 2024, 26, 27763-27771.	2.7	3
27	Functionalization of pyrimidine and purine into RNA bases in water/ammonia ices via radical substitution reactions. New Journal of Chemistry, 2024, 49, 332-344.	2.4	3
28	Low-temperature gas-phase formation of cyclopentadiene and its role in the formation of aromatics in the interstellar medium. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.5	5
29	Monomer size effect in inelastic collisional dynamics of non-equilibrium soot nucleation. Journal of Chemical Physics, 2024, 161, .	2.8	1
30	Theoretical study on the mechanism and kinetics of the oxidation of allyl radical with atomic and molecular oxygen. Combustion and Flame, 2023, 257, 112388.	6.0	5
31	Prenucleation chemistry of aromatics: A two-ring precursor?. Proceedings of the Combustion Institute, 2023, 39, 825-833.	4.4	9
32	Bay capping via acetylene addition to polycyclic aromatic hydrocarbons: Mechanism and kinetics. Proceedings of the Combustion Institute, 2023, 39, 969-977.	4.4	7
33	Mechanistical study on the formation of hydroxyacetone (CH3COCH2OH), methyl acetate (CH3COOCH3), and 3-hydroxypropanal (HCOCH2CH2OH) along with their enol tautomers (prop-1-ene-1,2-diol (CH3C(OH)CHOH), prop-2-ene-1,2-diol (CH2C(OH)CH2OH), 1-methoxyethen-1-ol) Tj ETQq1 1 0.784314 rgBT /Over Chemistry Chemical Physics, 2023, 25, 936-953.	2.7	22
34	Reaction of propionitrile with methylidyne: A theoretical study. Journal of the Chinese Chemical Society, 2023, 70, 439-450.	1.5	5
35	Unconventional Pathway in the Gasâ€Phase Synthesis of 9Hâ€Fluorene (C13H10) via the Radicalâ€“Radical Reaction of Benzyl (C7H7) with Phenyl (C6H5). Angewandte Chemie - International Edition, 2023, 62, .	14.4	4
36	Unconventional Pathway in the Gasâ€Phase Synthesis of 9Hâ€Fluorene (C13H10) via the Radicalâ€“Radical Reaction of Benzyl (C7H7) with Phenyl (C6H5). Angewandte Chemie, 2023, 135, .	1.4	3

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37	High-temperature thermal decomposition of triphenyl phosphate vapor in an inert medium: Flow reactor pyrolysis, quantum chemical calculations, and kinetic modeling. Combustion and Flame, 2023, 249, 112614.	6.0	10
38	Exotic Reaction Dynamics in the Gas-Phase Preparation of Anthracene (C14H10) via Spiroaromatic Radical Transients in the Indenylâ€“Cyclopentadienyl Radicalâ€“Radical Reaction. Journal of the American Chemical Society, 2023, 145, 3084-3091.	15.0	12
39	Radicalâ€“Radical Reactions in Molecular Weight Growth: The Phenyl + Propargyl Reaction. Journal of Physical Chemistry A, 2023, 127, 2577-2590.	2.5	12
40	Elucidating the Formation of Ethynylbutatrienylidene (HCCCHCCC; X1Aâ€²) in the Taurus Molecular Cloud (TMC-1) via the Gas-phase Reaction of Tricarbon (C3) with the Propargyl Radical (C3H3). Astrophysical Journal Letters, 2023, 945, L40.	11.4	5
41	Gas phase synthesis of the C40 nano bowl C40H10. Nature Communications, 2023, 14, .	13.7	15
42	Anticancer Drug Doxorubicin Spontaneously Reacts with GTP and dGTP. Chemical Research in Toxicology, 2023, 36, 660-668.	3.7	3
43	Gas-phase detection of oxirene. Science Advances, 2023, 9, .	10.9	11
44	Unconventional gas-phase preparation of the prototype polycyclic aromatic hydrocarbon naphthalene (C10H8) via the reaction of benzyl (C7H7) and propargyl (C3H3) radicals coupled with hydrogen-atom assisted isomerization. Chemical Science, 2023, 14, 5369-5378.	7.1	17
45	Synthesis of interstellar propen-2-ol (CH3C(OH)CH2) â€“ the simplest enol tautomer of a ketone. Physical Chemistry Chemical Physics, 2023, 25, 17460-17469.	2.7	3
46	Quantum Tunneling Mediated Low-Temperature Synthesis of Interstellar Hemiacetals. Journal of Physical Chemistry Letters, 2023, 14, 6078-6085.	4.2	10
47	Exploring the Chemical Dynamics of Phenylethynyl Radical (C6H5CC; X2A1) Reactions with Allene (H2CCCH2; X1A1) and Methylacetylene (CH3CCH; X1A1). Journal of Physical Chemistry A, 2023, 127, 5723-5733.	2.5	7
48	Gas-Phase Synthesis of Coronene through Stepwise Directed Ring Annulation. Journal of the American Chemical Society, 2023, 145, 15443-15455.	15.0	9
49	Completion of Crystallographic Data for the Series of 4-Halogenated-1H-pyrazoles: Crystal Structure Determination of 4-Iodo-1H-pyrazole and Spectroscopic Comparison. Crystals, 2023, 13, 1101.	2.1	4
50	Gas-phase preparation of azulene (C10H8) and naphthalene (C10H8) via the reaction of the resonantly stabilized fulvenallenyl (C7H5Ë™) and propargyl (C3H3Ë™) radicals. Chemical Science, 2023, 14, 9795-9805.	7.1	20
51	Quantum-tunneling-mediated synthesis of prebiotic chelation agents in interstellar analog ices. CheM, 2023, 9, 3286-3303.	16.6	9
52	Gas-phase formation of the resonantly stabilized 1-indenyl (C) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 162 Td (9) Tj ETQq0 0 0 rgBT	10.9	13
53	Plasmon-mediated dehydrogenation of the aromatic methyl group and benzyl radical formation. Chemical Science, 2023, 14, 13951-13961.	7.1	7
54	The Reaction of oâ€Benzyne with Vinylacetylene: An Unexplored Way to Produce Naphthalene. ChemPhysChem, 2022, 23, .	1.9	13

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55	Combustion chemistry of alkenes and alkadienes. Progress in Energy and Combustion Science, 2022, 90, 100983.	39.1	61
56	The Role of Methylaryl Radicals in the Growth of Polycyclic Aromatic Hydrocarbons: The Formation of Five-Membered Rings. Journal of Physical Chemistry A, 2022, 126, 1233-1244.	2.5	16
57	Unconventional excited-state dynamics in the concerted benzyl (C7H7) radical self-reaction to anthracene (C14H10). Nature Communications, 2022, 13, .	13.7	29
58	Radicalâ€“Radical Reaction Dynamics Probed Using Millimeterwave Spectroscopy: Propargyl + NH2/ND2. Journal of Physical Chemistry Letters, 2022, 13, 91-97.	4.2	6
59	Cleavage of an aromatic ring and radical migration. Faraday Discussions, 2022, 238, 512-528.	3.0	4
60	Density Functional Theory Study of the Oxygen Reduction Reaction Mechanism on Graphene Doped with Nitrogen and a Transition Metal. ACS Omega, 2022, 7, 7066-7073.	4.3	27
61	Gas-Phase Study of the Elementary Reaction of the D1-Ethynyl Radical (C2D; X2Î£+) with Propylene (C3H6;) Tj ETQq1 1 0.784314 rgBT /	2.5	7
62	Hierarchical porous N-doped carbon-supported PtCu nanoparticles as an efficient catalyst for oxygen reduction reaction. Journal of Power Sources, 2022, 533, 231270.	7.9	18
63	Formation of Benzene and Naphthalene through Cyclopentadienyl-Mediated Radicalâ€“Radical Reactions. Journal of Physical Chemistry Letters, 2022, 13, 208-213.	4.2	35
64	Direct H abstraction by molecular oxygen from unsaturated C3â€“C5 hydrocarbons: A theoretical study. International Journal of Chemical Kinetics, 2022, 54, 203-217.	1.5	5
65	Mechanism of E-bridge formation by various PAH molecules: A theoretical study. Chemical Physics Letters, 2022, 799, 139637.	2.7	9
66	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.	4.2	5
67	Probing the Intermediates of Catalyzed Dehydration Reactions of Primary Amide to Nitrile in Plasmonic Junctions. ACS Catalysis, 2022, 12, 7737-7747.	12.4	22
68	Chromatographic framework for coffee ring effect-driven separation of small molecules in surface enhanced Raman spectroscopy analysis. Talanta, 2022, 250, 123688.	5.9	4
69	Direct and Water-Mediated Adsorption of Stabilizers on SERS-Active Colloidal Bimetallic Plasmonic Nanomaterials: Insight into Citrateâ€“AuAg Interactions from DFT Calculations. Journal of Physical Chemistry A, 2022, 126, 5236-5251.	2.5	9
70	Gas-phase synthesis of racemic helicenes and their potential role in the enantiomeric enrichment of sugars and amino acids in meteorites. Physical Chemistry Chemical Physics, 2022, 24, 25077-25087.	2.7	10
71	A crossed molecular beams and computational study on the unusual reactivity of banana bonds of cyclopropane (c-C3H6;) through insertion by ground state carbon atoms (C(3Pj)). Physical Chemistry Chemical Physics, 2022, 24, 22453-22463.	2.7	1
72	Directed gas phase preparation of ethynylallene (H2CCCHCCH; X1Aâ€²) via the crossed molecular beam reaction of the methylidyne radical (CH; X2Î) with vinylacetylene (H2CCHCCH; X1Aâ€²). Physical Chemistry Chemical Physics, 2022, 24, 26499-26510.	2.7	8

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73	Computational Study of the Gas-Phase Thermal Degradation of Perfluoroalkyl Carboxylic Acids. Journal of Physical Chemistry A, 2022, 126, 8753-8760.	2.5	16
74	Crystal Structure, Hirshfeld Analysis, and DFT Calculations of Three Trinuclear Cu(II) Polymorphs. Crystals, 2022, 12, 1611.	2.1	0
75	Formation of Two-ring Polycyclic Aromatic Hydrocarbons via the Recombination of Benzyl and Propargyl Radicals under the Circumstellar Envelopes Conditions of Asymptotic Giant Branch Stars. Astronomy Reports, 2022, 66, 811-826.	1.0	5
76	On the Mechanism of Soot Nucleation. IV. Molecular Growth of the Flattened E-Bridge. Journal of Physical Chemistry A, 2022, 126, 9259-9267.	2.5	9
77	Acceleration of a Chemical Reaction due to Nonequilibrium Collisional Dynamics: Dimerization of Polyaromatics. Journal of Physical Chemistry Letters, 2022, 13, 11528-11535.	4.2	7
78	Formation of Thioformic Acid (HCOSH)â”€The Simplest Thioacidâ”€in Interstellar Ice Analogues. Journal of Physical Chemistry A, 2022, 126, 9699-9708.	2.5	20
79	Gas-Phase Formation of 1,3,5,7-Cyclooctatetraene (C8H8) through Ring Expansion via the Aromatic 1,3,5-Cyclooctatrien-7-yl Radical (C8H9â€¢) Transient. Journal of the American Chemical Society, 2022, 144, 22470-22478.	15.0	7
80	Formation of phenanthrenyl radicals via the reaction of acenaphthyl with acetylene. Proceedings of the Combustion Institute, 2021, 38, 1441-1448.	4.4	13
81	Directed Gas Phase Formation of the Elusive Silylgermylidyne Radical (H3SiGe, X2Aâ€²â€²). ChemPhysChem, 2021, 22, 184-191.	1.9	3
82	Experimental and numerical studies of downward flame spread over PMMA with and without addition of tri phenyl phosphate. Proceedings of the Combustion Institute, 2021, 38, 4867-4875.	4.4	23
83	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.	2.7	10
84	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.	2.5	8
85	Low-temperature gas-phase formation of indene in the interstellar medium. Science Advances, 2021, 7, .	10.9	74
86	Gas-phase pyrolysis of trans 3-pentenenitrile: competition between direct and isomerization-mediated dissociation. Physical Chemistry Chemical Physics, 2021, 23, 6462-6471.	2.7	6
87	Mechanism and kinetics of the oxidation of 1,3-butadien-1-yl (n-C4H5): a theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 9198-9210.	2.7	5
88	On the Synthesis of the Astronomically Elusive 1-Ethynyl-3-Silacyclopropenylidene (c-SiC4H2) Molecule in Circumstellar Envelopes of Carbon-rich Asymptotic Giant Branch Stars and Its Potential Role in the Formation of the Silicon Tetracarbide Chain (SiC4). Astrophysical Journal Letters, 2021, 908, L40.	11.4	8
89	Transformation of an Embedded Five-Membered Ring in Polycyclic Aromatic Hydrocarbons via the Hydrogen-Abstractionâ€“Acetylene-Addition Mechanism: A Theoretical Study. Journal of Physical Chemistry A, 2021, 125, 3341-3354.	2.5	13
90	Theoretical Study of the Phenoxy Radical Recombination with the O(3P) Atom, Phenyl plus Molecular Oxygen Revisited. Journal of Physical Chemistry A, 2021, 125, 3965-3977.	2.5	18

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91	Gas-phase synthesis of benzene via the propargyl radical self-reaction. Science Advances, 2021, 7, .	10.9	65
92	Combined Crossed Molecular Beams and Ab Initio Study of the Bimolecular Reaction of Ground State Atomic Silicon (Si; 3P) with Germane (GeH4; X1A1). ChemPhysChem, 2021, 22, 1497-1504.	1.9	3
93	Theoretical Study of the Mechanism and Kinetics of the Oxidation of Cyclopenta[a]Naphthalenyl Radical C13H9 with Molecular Oxygen. Journal of Physical Chemistry A, 2021, 125, 6796-6804.	2.5	3
94	On the Mechanism of Soot Nucleation. III. The Fate and Facility of the E-Bridge. Journal of Physical Chemistry A, 2021, 125, 6789-6795.	2.5	12
95	Directed Gas-Phase Formation of Aminosilylene (HSiNH2;X1Aâ€²): The Simplest Silicon Analogue of an Aminocarbene, under Single-Collision Conditions. Journal of the American Chemical Society, 2021, 143, 14227-14234.	15.0	6
96	Gas-phase synthesis of corannulene â€“ a molecular building block of fullerenes. Physical Chemistry Chemical Physics, 2021, 23, 5740-5749.	2.7	21
97	Theoretical Study of the Reaction of the Methylidyne Radical (CH; X2Î) with 1-Butyne (CH3CH2CCH; X1Aâ€²). Journal of Physical Chemistry A, 2021, 125, 9536-9547.	2.5	4
98	Ozone destruction due to the recombination of oxygen atoms. Journal of Chemical Physics, 2021, 155, .	2.8	5
99	Gas-phase Synthesis of Silaformaldehyde (H2SiO) and Hydroxysilylene (HSiOH) in Outflows of Oxygen-rich Asymptotic Giant Branch Stars. Astrophysical Journal Letters, 2021, 921, L7.	11.4	2
100	A chemical dynamics study of the reaction of the methylidyne radical (CH, X2Î) with dimethylacetylene (CH3CCCH3, X1A1g). Physical Chemistry Chemical Physics, 2021, 24, 578-593.	2.7	17
101	Conversion of acenaphthalene to phenalene via methylation: A theoretical study. Combustion and Flame, 2020, 213, 302-313.	6.0	27
102	A Unified Mechanism on the Formation of Acenes, Helicenes, and Phenacenes in the Gas Phase. Angewandte Chemie - International Edition, 2020, 59, 4051-4058.	14.4	21
103	Iodoindenes: Synthesis and application to cross-coupling. Tetrahedron Letters, 2020, 61, 152427.	1.4	3
104	Formation of Phenanthrene via Recombination of Indenyl and Cyclopentadienyl Radicals: A Theoretical Study. Journal of Physical Chemistry A, 2020, 124, 9933-9941.	2.5	27
105	A chemical dynamics study on the gas-phase formation of triplet and singlet C5H2 carbenes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30142-30150.	7.5	25
106	Formation of phenanthrene via Hâ€assisted isomerization of 2â€ethynylbiphenyl produced in the reaction of phenyl with phenylacetylene. International Journal of Chemical Kinetics, 2020, 52, 875-883.	1.5	14
107	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.	2.7	20
108	Gas Phase Synthesis of the Elusive Trisilacyclopropyl Radical (Si3H5) via Unimolecular Decomposition of Chemically Activated Doublet Trisilapropyl Radicals (Si3H7). Journal of Physical Chemistry Letters, 2020, 11, 7874-7881.	4.2	1

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109	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.	7.5	22
110	Gasâ€Phase Synthesis of 3â€Vinylcyclopropene via the Crossed Beam Reaction of the Methylidyne Radical (CH; X2Î) with 1,3â€Butadiene (CH2CHCHCH2; X1Ag). ChemPhysChem, 2020, 21, 1295-1309.	1.9	10
111	Kinetics of Reactions of 1- and 2â€‘Naphthyl with Propyne and Allene. Bulletin of the Lebedev Physics Institute, 2020, 47, 97-100.	0.8	1
112	Gas Phase Identification of the Elusive N-Hydroxyoxaziridine (c-H2CON(OH)): A Chiral Molecule. Journal of Physical Chemistry Letters, 2020, 11, 5383-5389.	4.2	11
113	Directed Gas Phase Formation of Silene (H2SiCH2). Chemistry - A European Journal, 2020, 26, 13584-13589.	3.4	7
114	Theoretical study of the reaction mechanism and kinetics of the phenyl + propargyl association. Physical Chemistry Chemical Physics, 2020, 22, 6868-6880.	2.7	29
115	A Unified Mechanism on the Formation of Acenes, Helicenes, and Phenacenes in the Gas Phase. Angewandte Chemie, 2020, 132, 4080-4087.	1.4	7
116	Gas phase formation of phenalenevia10Ï€-aromatic, resonantly stabilized free radical intermediates. Physical Chemistry Chemical Physics, 2020, 22, 15381-15388.	2.7	23
117	Gas Phase Formation of Methylgermylene (HGeCH3). ChemPhysChem, 2020, 21, 1898-1904.	1.9	4
118	On the mechanism of soot nucleation. II. E-bridge formation at the PAH bay. Physical Chemistry Chemical Physics, 2020, 22, 17196-17204.	2.7	21
119	Revisiting diacetyl and acetic acid flames: The role of the keteneÂ+ÂOH reaction. Combustion and Flame, 2020, 218, 28-41.	6.0	20
120	The Elusive Ketene (H2CCO) Channel in the Infrared Multiphoton Dissociation of Solid 1,3,5â€Trinitroâ€1,3,5â€Triazinane (RDX). ChemPhysChem, 2020, 21, 837-842.	1.9	7
121	On the mechanism of soot nucleation. Physical Chemistry Chemical Physics, 2020, 22, 5314-5331.	2.7	189
122	Gas-Phase Formation of Fulvenallene (C7H6) via the Jahnâ€“Teller Distorted Tropyl (C7H7) Radical Intermediate under Single-Collision Conditions. Journal of the American Chemical Society, 2020, 142, 3205-3213.	15.0	27
123	A Freeâ€Radical Prompted Barrierless Gasâ€Phase Synthesis of Pentacene. Angewandte Chemie, 2020, 132, 11430-11434.	1.4	5
124	A Freeâ€Radical Prompted Barrierless Gasâ€Phase Synthesis of Pentacene. Angewandte Chemie - International Edition, 2020, 59, 11334-11338.	14.4	22
125	Spectroscopic and Theoretical Insights into Surprisingly Effective Sm(III) Extraction from Alkaline Aqueous Media by o-Phenylenediamine-Derived Sulfonamides. Inorganic Chemistry, 2020, 59, 6884-6894.	4.6	4
126	Calculation of Potential Energy Curves for Ar*â€“He Collision Complex. Bulletin of the Lebedev Physics Institute, 2020, 47, 300-302.	0.8	1

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127	On the low-temperature limit of HACA. Proceedings of the Combustion Institute, 2019, 37, 969-976.	4.4	80
128	Molecular mass growth through ring expansion in polycyclic aromatic hydrocarbons via radicalâ€“radical reactions. Nature Communications, 2019, 10, .	13.7	94
129	Directed Gasâ€Phase Synthesis of Triafulvene under Singleâ€Collision Conditions. Angewandte Chemie, 2019, 131, 15634-15641.	1.4	2
130	Surfaceâ€enhanced Raman spectroscopy, Raman, and density functional theoretical analyses of fentanyl and six analogs. Journal of Raman Spectroscopy, 2019, 50, 1405-1415.	1.9	33
131	How to add a five-membered ring to polycyclic aromatic hydrocarbons (PAHs) â€“ molecular mass growth of the 2-naphthyl radical (C₁₀H₇) to benzindenes (C₁₃H₁₀) as a case study. Physical Chemistry Chemical Physics, 2019, 21, 16737-16750.	2.7	32
132	Directed Gasâ€Phase Synthesis of Triafulvene under Singleâ€Collision Conditions. Angewandte Chemie - International Edition, 2019, 58, 15488-15495.	14.4	9
133	Gas-Phase Formation of 1-Methylcyclopropene and 3-Methylcyclopropene via the Reaction of the Methylidyne Radical (CH; X²Î) with Propylene (CH₃CHCH₂;) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	37
134	Gasâ€Phase Synthesis of Triphenylene (C₁₈H₁₂). ChemPhysChem, 2019, 20, 791-797.	1.9	16
135	Elucidating the Chemical Dynamics of the Elementary Reactions of the 1-Propynyl Radical (CH₃CC; X²A₁) with Methylacetylene (H₃CCCH;) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	37
136	Gas Phase Formation of the Interstellar Molecule Methyltriacetylene. ChemPhysChem, 2019, 20, 1912-1917.	1.9	4
137	Scission of the Five-Membered Ring in 1-H-Inden-1-one C₉H₆O and Indenyl C₉H₇ in the Reactions with H and O Atoms. Journal of Physical Chemistry A, 2019, 123, 5741-5752.	2.5	15
138	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.	2.5	18
139	Aggregation induced emission enhancement (AIEE) of tripodal pyrazole derivatives for sensing of nitroaromatics and vapor phase detection of picric acid. New Journal of Chemistry, 2019, 43, 7251-7258.	2.4	28
140	Reactivity of the Indenyl Radical (C₉H₇) with Acetylene (C₂H₂) and Vinylacetylene (C₄H₄). ChemPhysChem, 2019, 20, 1437-1447.	1.9	24
141	The mechanism and rate constants for oxidation of indenyl radical C₉H₇ with molecular oxygen O₂: a theoretical study. Physical Chemistry Chemical Physics, 2019, 21, 8915-8924.	2.7	16
142	Gas phase synthesis of [4]-helicene. Nature Communications, 2019, 10, .	13.7	35
143	Micro Solid Phase Extraction Surface-Enhanced Raman Spectroscopy (Î¼-SPE/SERS) Screening Test for the Detection of the Synthetic Cannabinoid JWH-018 in Oral Fluid. Analytical Chemistry, 2019, 91, 4780-4789.	6.5	50
144	Directed Gas-Phase Formation of the Germaniumsilylene Butterfly Molecule (Geî¼-H₂)Si). Journal of Physical Chemistry Letters, 2019, 10, 1264-1271.	4.2	8

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145	Theoretical Study of the Reaction Mechanism and Kinetics of the Phenyl + Allyl and Related Benzyl + Vinyl Associations. Journal of Physical Chemistry A, 2019, 123, 1720-1729.	2.5	15
146	RÃ¼cktitelbild: Directed Gasâ€Phase Synthesis of Triafulvene under Singleâ€Collision Conditions (Angew.) Tj ETQq0 0 0 rgBT /Overlock	1.4	0
147	O2(b1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td (altim	2.7	0
148	removal by I2 and NO at temperatures of 297â€“750â€“K. Chemical Physics Letters, 2019, 735, 136774. A combined experimental and computational study on the reaction dynamics of the 1-propynyl radical (CH₃CC; X²A₁) with ethylene (H₂CCH₂;) Tj ETQq0 0 0 rgBT /Overlock	2.7	12
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