

Helmut Schwarz

List of Publications by Year in descending order

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997
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42,175
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3149

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1127
all docs

1127
docs citations

1127
times ranked

10472
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-State Reactivity as a New Concept in Organometallic Chemistry. <i>Accounts of Chemical Research</i> , 2000, 33, 139-145.	7.6	1,099
2	Organometallic chemistry in the gas phase. <i>Chemical Reviews</i> , 1991, 91, 1121-1177.	23.0	821
3	The singlet and triplet states of phenyl cation. A hybrid approach for locating minimum energy crossing points between non-interacting potential energy surfaces. <i>Theoretical Chemistry Accounts</i> , 1998, 99, 95-99.	0.5	805
4	Gas-Phase Catalysis by Atomic and Cluster Metal Ions: The Ultimate Single-Site Catalysts. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2336-2354.	7.2	782
5	Chemistry with Methane: Concepts Rather than Recipes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10096-10115.	7.2	608
6	C-H and C-C Bond Activation by Bare Transition-Metal Oxide Cations in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1973-1995.	4.4	460
7	Thermal Hydrogen-Atom Transfer from Methane: The Role of Radicals and Spin States in Oxo-Cluster Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5544-5555.	7.2	377
8	On the Question of Stability, Conjugation, and π -Aromaticity in Imidazol-2-ylidenes and Their Silicon Analogs. <i>Journal of the American Chemical Society</i> , 1996, 118, 2023-2038.	6.6	375
9	Electronic Structure Makes a Difference: Cytochrome P-450 Mediated Hydroxylations of Hydrocarbons as a Two-State Reactivity Paradigm. <i>Chemistry - A European Journal</i> , 1998, 4, 193-199.	1.7	346
10	Two-state reactivity mechanisms of hydroxylation and epoxidation by cytochrome P-450 revealed by theory. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 556-567.	2.8	340
11	Relativistic Effects in Gas-Phase Ion Chemistry: An Experimentalist's View. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4442-4454.	7.2	334
12	Two-State Reactivity in Organometallic Gas-Phase Ion Chemistry. <i>Helvetica Chimica Acta</i> , 1995, 78, 1393-1407.	1.0	319
13	On the spin-forbiddensness of gas-phase ion-molecule reactions: a fruitful intersection of experimental and computational studies. <i>International Journal of Mass Spectrometry</i> , 2004, 237, 75-105.	0.7	303
14	Generation, Stability, and Reactivity of Small, Multiply Charged Ions in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7385-7394.	1.1	297
15	Endohedral Cluster Compounds: Inclusion of Helium within C ₆₀ and C ₇₀ through Collision Experiments. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 884-886.	4.4	291
16	Activation of hydrogen and methane by thermalized FeO ⁺ in the gas phase as studied by multiple mass spectrometric techniques. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 161, 175-191.	1.9	291
17	Electronic Structures and Gas-Phase Reactivities of Cationic Late-Transition-Metal Oxides. <i>Journal of the American Chemical Society</i> , 1994, 116, 10734-10741.	6.6	285
18	Gas-phase chemistry of collisionally activated ions. <i>Mass Spectrometry Reviews</i> , 1983, 2, 77-148.	2.8	284

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19	Cationic Gold(I) Complexes of Xenon and of Ligands Containing the Donor Atoms Oxygen, Nitrogen, Phosphorus, and Sulfur. <i>Inorganic Chemistry</i> , 1998, 37, 624-632.	1.9	255
20	Collisional Activation Mass Spectrometry? A New Probe for Determining the Structure of Ions in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1976, 15, 509-519.	4.4	237
21	Thermal Activation of Methane by Tetranuclear [V ₄ O ₁₀] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4681-4685.	7.2	236
22	Gas-phase activation of methane by ligated transition-metal cations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18114-18119.	3.3	226
23	The Generation and Characterization of Molecules by Neutralization-Reionization Mass Spectrometry (NRMS). <i>New Analytical Methods</i> (33). <i>Angewandte Chemie International Edition in English</i> , 1987, 26, 805-815.	4.4	221
24	FeO ⁺ Activates Methane. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 1433-1434.	4.4	211
25	A Comparative Computational Study of Cationic Coinage Metal- η^2 -Ethylene Complexes (C ₂ H ₄)M ⁺ (M = Cu, Ag, Au). <i>J. Phys. Chem. B</i> , 2009, 113, 10784-10791.	2.9	209
26	Experimental and theoretical studies toward a characterization of conceivable intermediates involved in the gas-phase oxidation of methane by bare FeO ⁺ . Generation of four distinguishable [Fe, C, H ₄ , O] ⁺ isomers. <i>Journal of the American Chemical Society</i> , 1992, 114, 1215-1222.	6.6	199
27	Neutralization-reionization mass spectrometry: a powerful "laboratory" to generate and probe elusive neutral molecules. <i>Accounts of Chemical Research</i> , 1994, 27, 347-352.	7.6	198
28	Remote functionalization of C-H and C-C bonds by "naked" transition-metal ions (Cosi Fan Tutte). <i>Accounts of Chemical Research</i> , 1989, 22, 282-287.	7.6	193
29	Mass spectrometric approaches to the reactivity of transient neutrals. <i>Chemical Society Reviews</i> , 1998, 27, 91.	18.7	190
30	Activation of Methane by Oligomeric (Al ₂ O ₃) _x ⁺ (x=3,4,5): The Role of Oxygen-Centered Radicals in Thermal Hydrogen-Atom Abstraction. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1946-1950.	7.2	183
31	How and Why Do Cluster Size, Charge State, and Ligands Affect the Course of Metal-Mediated Gas-Phase Activation of Methane?. <i>Israel Journal of Chemistry</i> , 2014, 54, 1413-1431.	1.0	180
32	Gas-phase chemistry of bare transition-metal ions in comparison. <i>Journal of the American Chemical Society</i> , 1990, 112, 621-627.	6.6	172
33	Organometallic chemistry in the gas phase. A comparative fourier transform-ion cyclotron resonance/tandem mass spectrometry study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 93, 243-257.	1.9	164
34	How Does Fe ⁺ Activate C-C and C-H Bonds in Ethane? A Theoretical Investigation Using Density Functional Theory. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6236-6242.	2.9	163
35	Pt ⁺ -Catalyzed Oxidation of Methane: Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1567-1579.	1.1	156
36	Diatomic [CuO] ⁺ and Its Role in the Spin-Selective Hydrogen- and Oxygen-Atom Transfers in the Thermal Activation of Methane. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4966-4969.	7.2	156

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37	The performance of density-functional/Hartree-Fock hybrid methods: Cationic transition-metal methyl complexes MCH_3 ($M=Sc, Cu, La, Hf, Au$). <i>Journal of Chemical Physics</i> , 1995, 102, 4931-4941.	1.2	150
38	Dissociation behavior of $Cu(urea)_n^+$ complexes generated by electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 729-738.	0.7	150
39	Electronic Effects on Room-Temperature, Gas-Phase C-H Bond Activations by Cluster Oxides and Metal Carbides: The Methane Challenge. <i>Journal of the American Chemical Society</i> , 2017, 139, 17201-17212.	6.6	149
40	Relativistic Effects on Bonding in Cationic Transition-Metal-Carbene Complexes: A Density-Functional Study. <i>Journal of the American Chemical Society</i> , 1995, 117, 495-500.	6.6	146
41	“Rollover-cyclometalation” early history, recent developments, mechanistic insights and application aspects. <i>Chemical Science</i> , 2012, 3, 308-326.	3.7	146
42	Radical-like Behavior of Manganese Oxide Cation in Its Gas-Phase Reactions with Dihydrogen and Alkanes. <i>Journal of the American Chemical Society</i> , 1995, 117, 2033-2040.	6.6	145
43	MÃ©nage-Ã©trois: single-atom catalysis, mass spectrometry, and computational chemistry. <i>Catalysis Science and Technology</i> , 2017, 7, 4302-4314.	2.1	145
44	Aktivierung von Ci_2H_2 - und Ci_2C_2 -Bindungen durch “znackte”, “bergangsmetalloxiid”-Kationen in der Gasphase. <i>Angewandte Chemie</i> , 1995, 107, 2126-2150.	1.6	143
45	Gas-Phase Reactivity of Lanthanide Cations with Hydrocarbons. <i>Organometallics</i> , 1995, 14, 992-999.	1.1	139
46	Effects of Sequential Ligation of Molybdenum Cation by Chalcogenides on Electronic Structure and Gas-Phase Reactivity. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6252-6264.	1.1	138
47	Carbon-fluorine bond activation”looking at and learning from unsolvated systems. <i>Chemical Communications</i> , 2003, , 1321-1326.	2.2	137
48	Doping Effects in Cluster-Mediated Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10090-10100.	7.2	137
49	$SiOH^+/HSiO^+$ and $SiOH/HSiO$: gas-phase generation and characterization. A combined neutralization-reionization mass spectrometry and ab initio molecular orbital study. <i>Journal of the American Chemical Society</i> , 1991, 113, 5970-5975.	6.6	136
50	Transfer Hydrogenation and Deuteration of Buckminsterfullerene C_{60} by 9,10-Dihydroanthracene and 9,9,10,10-tetradehydroanthracene. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 584-586.	4.4	136
51	Organic Dications: Gas Phase Experiments and Theory in Concert. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 1321-1341.	4.4	135
52	Generation and characterization of neutral and cationic 3-sila-cyclopropenylidene in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 107, 369-376.	1.9	134
53	Radical-Like Activation of Alkanes by the Ligated Copper Oxide Cation (Phenanthroline) CuO^+ . <i>Journal of Physical Chemistry B</i> , 2004, 108, 14407-14416.	1.2	134
54	Effects of Ligands, Cluster Size, and Charge State in Gas-Phase Catalysis: A Happy Marriage of Experimental and Computational Studies. <i>Catalysis Letters</i> , 2012, 142, 1265-1278.	1.4	130

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55	Platinum Dioxide Cation: A Easy to Generate Experimentally but Difficult to Describe Theoretically. Journal of the American Chemical Society, 2001, 123, 142-147.	6.6	127
56	Stoichiometric Aktivierungsmassenspektrometrie – eine neue Sonde zur Strukturbestimmung von Ionen in der Gasphase. Angewandte Chemie, 1976, 88, 589-599.	1.6	126
57	Room-Temperature C-H Bond Activation of Methane by Bare [Pt ₄ O ₁₀] ⁺ . Angewandte Chemie - International Edition, 2009, 48, 4861-4863.	7.2	125
58	Characterization, Orbital Description, and Reactivity Patterns of Transition-Metal Oxo Species in the Gas Phase. Structure and Bonding, 2000, , 91-123.	1.0	123
59	Concepts of metal-mediated methane functionalization. An intersection of experiment and theory. Pure and Applied Chemistry, 2000, 72, 2319-2332.	0.9	121
60	Reactivity of Small Cationic Platinum Clusters. Journal of Physical Chemistry A, 2003, 107, 4999-5006.	1.1	120
61	Ethylendione: An Intrinsically Short-Lived Molecule. Chemistry - A European Journal, 1998, 4, 2550-2557.	1.7	118
62	Oxidation properties of the early transition-metal dioxide cations MO ₂ ⁺ (M = Ti, V, Zr, Nb) in the gas-phase. International Journal of Mass Spectrometry, 1999, 182-183, 85-97.	0.7	117
63	HCN Synthesis from Methane and Ammonia: Mechanisms of Pt ⁺ -Mediated C-N Coupling. Journal of the American Chemical Society, 1999, 121, 10614-10625.	6.6	116
64	Chromium Dioxide Cation OCrO ⁺ in the Gas Phase: Structure, Electronic States, and the Reactivity with Hydrogen and Hydrocarbons. Journal of the American Chemical Society, 1996, 118, 9941-9952.	6.6	115
65	Additivity Effects in the Reactivities of Bimetallic Cluster Ions Pt _m Au _n ⁺ . ChemPhysChem, 2003, 4, 1233-1237.	1.0	115
66	Probing Cooperative Effects in Bimetallic Clusters: Indications of C-N Coupling of CH ₄ and NH ₃ Mediated by the Cluster Ion PtAu ⁺ in the Gas Phase. Journal of the American Chemical Society, 2003, 125, 3676-3677.	6.6	114
67	Surprisingly low reactivity of bare iron monoxide ion (FeO ⁺) in its spin-allowed, highly exothermic reaction with molecular hydrogen to generate iron(1+) and water. The Journal of Physical Chemistry, 1994, 98, 68-70.	2.9	113
68	Catalytic Pt ⁺ -Mediated Oxidation of Methane by Molecular Oxygen in the Gas Phase. Angewandte Chemie International Edition in English, 1994, 33, 1174-1176.	4.4	113
69	Experimental and Theoretical Studies of Gold(I) Complexes Au(L) ⁺ (L = H ₂ O, CO, NH ₃ , C ₂ H ₄ , C ₃ H ₆ , C ₄ H ₆ .) Tj ETQ ₁ 1 1 0.784314 rgB	1.1	113
70	Amino acid sequence of Manduca sexta adipokinetic hormone elucidated by Combined Fast Atom Bombardment (FAB)/Tandem Mass Spectrometry. Biochemical and Biophysical Research Communications, 1985, 133, 337-342.	1.0	112
71	Kinetic-energy dependence of competitive spin-allowed and spin-forbidden reactions: V ⁺ +CS ₂ . Journal of Chemical Physics, 1999, 110, 7858-7870.	1.2	112
72	Metal-mediated activation of carbon dioxide in the gas phase: Mechanistic insight derived from a combined experimental/computational approach. Coordination Chemistry Reviews, 2017, 334, 112-123.	9.5	111

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73	Pt ⁺ -mediated activation of methane: theory and experiment. <i>Chemical Physics Letters</i> , 1995, 239, 75-83.	1.2	110
74	Gas-Phase Oxidation of Propane and 1-Butene with [V ₃ O ₇] ⁺ : Experiment and Theory in Concert. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4677-4681.	7.2	110
75	Thermal hydrogen-atom transfer from methane: A mechanistic exercise. <i>Chemical Physics Letters</i> , 2015, 629, 91-101.	1.2	110
76	Gas-Phase Reactivity of Lanthanide Cations with Fluorocarbons: \hat{A} Ca ⁺ F versus Ca ⁺ H and Ca ⁺ C Bond Activation. <i>Journal of the American Chemical Society</i> , 1996, 118, 9960-9965.	6.6	107
77	On the mechanism of Fe ⁺ -induced hydrogen migrations in gaseous octyne/iron(I) complexes. <i>Journal of the American Chemical Society</i> , 1987, 109, 2368-2374.	6.6	106
78	Chemical Ionization ⁺ A Mass-Spectrometric Analytical Procedure of Rapidly Increasing Importance. <i>Angewandte Chemie International Edition in English</i> , 1978, 17, 424-439.	4.4	105
79	A neutralization-reionization mass spectrometric study of alkyl hydroperoxide cation radicals and four distinguishable [C ₂ H ₃ O ₂] ⁺ isomers. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 153, 173-199.	1.9	103
80	Some newer aspects of mass spectrometric ortho effects. , 1978, , 231-263.		102
81	Competing reactions of the acetone cation radical: RRKM-QET calculations on an ab initio potential-energy surface. <i>Journal of the American Chemical Society</i> , 1988, 110, 8183-8192.	6.6	102
82	Binding Energy of Al(C ₆ H ₆) ⁺ from Analysis of Radiative Association Kinetics. <i>Journal of the American Chemical Society</i> , 1996, 118, 5277-5283.	6.6	102
83	Gas-Phase Oxidation of Isomeric Butenes and Small Alkanes by Vanadium-Oxide and -Hydroxide Cluster Cations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2647-2654.	1.1	102
84	The ⁺ Uranyl(2+) Ion, UO ₂ ²⁺ . <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 891-894.	4.4	100
85	Direct Conversion of Methane into Formaldehyde Mediated by [Al ₂ O ₃] ⁺ at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3703-3707.	7.2	98
86	The Neutralization of HeC ₆₀ ⁺ in the Gas Phase: Compelling Evidence for the Existence of an Endohedral Structure for He@C ₆₀ . <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 183-185.	4.4	96
87	C ⁺ N Coupling of Methane and Ammonia by Bimetallic Platinum ⁺ Gold Cluster Cations. <i>Organometallics</i> , 2004, 23, 1132-1139.	1.1	96
88	Electrostatic and Charge-Induced Methane Activation by a Concerted Double C ⁺ H Bond Insertion. <i>Journal of the American Chemical Society</i> , 2017, 139, 1684-1689.	6.6	96
89	Long-lived dications of Cu(H ₂ O) ₂ ²⁺ and Cu(NH ₃) ₂ ²⁺ do exist!. <i>Chemical Physics Letters</i> , 2001, 343, 258-264.	1.2	95
90	Mass spectrometry as a tool to probe the gas-phase reactivity of neutral molecules. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998, 172, 181-208.	1.9	93

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91	A Gas-Phase Reaction as a Functional Model for the Activation of Carbon Dioxide by Carbonic Anhydrase. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5087-5090.	7.2	91
92	Unexpected Mechanistic Variants in the Thermal Gas-Phase Activation of Methane. <i>Organometallics</i> , 2017, 36, 8-17.	1.1	91
93	Stoichiometric Gas-Phase Oxidation Reactions of CoO^+ with Molecular Hydrogen, Methane, and Small Alkanes. <i>Organometallics</i> , 1994, 13, 4072-4081.	1.1	90
94	Electronic Origins of the Variable Efficiency of Room-Temperature Methane Activation by Homo- and Heteronuclear Cluster Oxide Cations $[\text{XYO}]_2^+$ (X, Y = Al, Si, Mg): Competition between Proton-Coupled Electron Transfer and Hydrogen-Atom Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 7973-7981.	6.6	90
95	Conversion of Methane to Methanol: Nickel, Palladium, and Platinum (d^9) Cations as Catalysts for the Oxidation of Methane by Ozone at Room Temperature. <i>Chemistry - A European Journal</i> , 2010, 16, 11605-11610.	1.7	89
96	Tantalum-Mediated Coupling of Methane and Carbon Dioxide in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2033-2035.	4.4	87
97	Ligand and electronic-structure effects in metal-mediated gas-phase activation of methane: A cold approach to a hot problem. <i>Dalton Transactions</i> , 2009, , 10155.	1.6	87
98	Formation of endohedral carbon-cluster noble-gas compounds with high-energy bimolecular reactions: $\text{C}_{60}\text{H}_n^+$ (n=1,2). <i>Chemical Physics Letters</i> , 1991, 186, 459-462.	1.2	86
99	Generation and Characterization of the Anionic, Neutral, and Cationic Iron-Dioxygen Adducts $[\text{FeO}_2]$ in the Gas Phase. <i>Inorganic Chemistry</i> , 1994, 33, 5094-5100.	1.9	86
100	A Comparative Study of Oxo-Ligand Effects in the Gas-Phase Chemistry of Atomic Lanthanide and Actinide Cations. <i>Chemistry - A European Journal</i> , 1997, 3, 1083-1090.	1.7	86
101	Neutralization-reionization mass spectrometry as a novel probe to structurally characterize organic ligands generated in the Fe(I)-mediated oligomerization of acetylene in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 110, 145-156.	1.9	85
102	Hydrocarbon activation by U^+ -uranium cations: formation of a cationic uranium-benzene complex from three ethylene units. <i>Journal of Organometallic Chemistry</i> , 1995, 501, 201-209.	0.8	85
103	Activation of methane by gaseous platinum(II) ions PtX^+ (X = H, Cl, Br, CHO). <i>Canadian Journal of Chemistry</i> , 2005, 83, 1936-1940.	0.6	85
104	Gas-Phase C-H and N-H Bond Activation by a High Valent Nitrido-Iron Dication and N^{H} -Transfer to Activated Olefins. <i>Journal of the American Chemical Society</i> , 2008, 130, 4285-4294.	6.6	85
105	Mechanistic Variants in Gas-Phase Metal-Oxide Mediated Activation of Methane at Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2016, 138, 11368-11377.	6.6	85
106	Thermolysis of NH_4HCO_3 : A Simple Route to the Formation of Free Carbonic Acid (H_2CO_3) in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1987, 26, 354-355.	4.4	84
107	Observation of the Hammick Intermediate: A Reduction of the Pyridine-2-ylid Ion in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1996, 118, 11898-11904.	6.6	84
108	Innocent and Less-Innocent Solvent Ligands: A Systematic Investigation of Cationic Iron Chloride/Alcohol Complexes by Electrospray Ionization Mass Spectrometry Complemented by DFT Calculations. <i>Chemistry - A European Journal</i> , 2006, 12, 2454-2464.	1.7	84

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109	Ta ₂ ⁺ -mediated ammonia synthesis from N ₂ and H ₂ at ambient temperature. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11680-11687.	3.3	84
110	Oxidative Degradation of Small Cationic Vanadium Clusters by Molecular Oxygen: On the Way from Vn ⁺ (n = 2-5) to VOm ⁺ (m = 1, 2). Journal of Physical Chemistry A, 2003, 107, 2855-2859.	1.1	83
111	Gas-phase ion/molecule reactions of corannulene, a fullerene subunit. Journal of the American Chemical Society, 1993, 115, 11636-11637.	6.6	81
112	The CeO ₂ +Cation: Gas-Phase Reactivity and Electronic Structure. Inorganic Chemistry, 1996, 35, 2463-2475.	1.9	81
113	Substituent effects on neutral and ionized carbon-carbon and carbon-oxygen double bonds and their implications for the stability order of keto/enol tautomers. Journal of the American Chemical Society, 1986, 108, 593-600.	6.6	80
114	Hydrogenation of arenes by the RhCl ₃ -Aliquat 336 catalyst. 4. Hydrogen-deuterium exchange and other mechanistic features. Journal of Organic Chemistry, 1987, 52, 2804-2813.	1.7	80
115	Oxidation of Benzene Mediated by First-Row Transition-Metal Oxide Cations: The Reactivity of ScO ⁺ Through NiO ⁺ in Comparison. Journal of the American Chemical Society, 1994, 116, 9565-9570.	6.6	80
116	Identification of Active Sites and Structural Characterization of Reactive Ionic Intermediates by Cryogenic Ion Trap Vibrational Spectroscopy. Chemistry - A European Journal, 2019, 25, 2112-2126.	1.7	80
117	Tandem mass spectrometry methodology for the sequence determination of cyclic peptides. Journal of the American Chemical Society, 1985, 107, 6765-6769.	6.6	79
118	Injection of helium atoms into doubly and triply charged carbon (C ₆₀) cations. The Journal of Physical Chemistry, 1991, 95, 8451-8452.	2.9	79
119	The metal-ligand bond strengths in cationic gold(I) complexes. Application of approximate density functional theory. Chemical Physics Letters, 1995, 236, 194-200.	1.2	79
120	HCSiF and HCSiCl: The First Detection of Molecules with Formal C≡Si Triple Bonds. Angewandte Chemie - International Edition, 1999, 38, 331-335.	7.2	78
121	Thermochemistry and Reactivity of Cationic Scandium and Titanium Sulfide in the Gas Phase. Journal of Physical Chemistry A, 2000, 104, 5046-5058.	1.1	78
122	Coordination of Iron(III) Cations to $\hat{\nu}^2$ -Keto Esters as Studied by Electrospray Mass Spectrometry: Implications for Iron-Catalyzed Michael Addition Reactions. Chemistry - A European Journal, 2005, 11, 619-627.	1.7	78
123	Endohedral fullerene-noble gas clusters formed with high-energy bimolecular reactions of C _x n ⁺ (x = 1-10). Overlaid	1.0	77
124	The Chemistry of Isolated Cations. Angewandte Chemie International Edition in English, 1979, 18, 451-461.	4.4	76
125	On the mechanism of (C ₂ H ₃ O) ⁺ loss from ionized methyl acetate. An ab initio molecular orbital study. Journal of the American Chemical Society, 1987, 109, 1317-1322.	6.6	76
126	Fe ²⁺ -Catalyzed Gas-Phase Oxidation of Ethane by N ₂ O. Angewandte Chemie International Edition in English, 1990, 29, 1431-1433.	4.4	76

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127	Erzeugung und Charakterisierung von Molek ¹ / ₄ len durch Neutralisations- Reionisations- Massenspektrometrie (NRMS). <i>Angewandte Chemie</i> , 1987, 99, 829-839.	1.6	75
128	A Gas-Phase Model for the Pt+-Catalyzed Coupling of Methane and Ammonia. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 829-832.	7.2	75
129	Degradation of Ionized OV(OCH ₃) ₃ in the Gas Phase. From the Neutral Compound All the Way down to the Quasi-terminal Fragments VO ⁺ and VOH ⁺ . <i>Inorganic Chemistry</i> , 2006, 45, 6235-6245.	1.9	75
130	An ab initio molecular orbital study of the structures and energetics of the neutral and cationic CuO ₂ and CuNO molecules in the gas phase. <i>Journal of Chemical Physics</i> , 1994, 101, 3898-3905.	1.2	74
131	Experimental and Theoretical Studies of Vanadium Sulfide Cation. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10060-10073.	1.1	74
132	On the formation of the carbon dioxide anion radical CO ₂ ⁻ • in the gas phase. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 25-35.	0.7	74
133	Gas-Phase Chemistry of Bare V ⁺ Cation with Oxygen and Water at Room Temperature: Formation and Hydration of Vanadium Oxide Cations. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4259-4271.	1.1	74
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135	Relativistic Effects in Cationic Gold(I) Complexes: A Comparative Study of ab Initio Pseudopotential and Density Functional Methods. <i>Organometallics</i> , 1995, 14, 1284-1291.	1.1	73
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