

Helmut Schwarz

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4009211/helmut-schwarz-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,054
papers

37,739
citations

89
h-index

144
g-index

1,127
ext. papers

39,623
ext. citations

6.3
avg, IF

7.62
L-index

#	Paper	IF	Citations
1054	On the Crucial Role of Isolated Electronic States in the Thermal Reaction of ReC with Dihydrogen. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9370-9376	16.4	3
1053	Revisiting the Intriguing Electronic Features of the BeOBeC Carbyne and Some Isomers: A Quantum-Chemical Assessment. <i>Angewandte Chemie</i> , 2020 , 132, 17414-17418	3.6	
1052	Counter-Intuitive Gas-Phase Reactivities of [V ₂] ⁺ and [V ₂ O] ⁺ towards CO ₂ Reduction: Insight from Electronic Structure Calculations. <i>Angewandte Chemie</i> , 2020 , 132, 12406-12412	3.6	0
1051	Counter-Intuitive Gas-Phase Reactivities of [V] and [VO] towards CO Reduction: Insight from Electronic Structure Calculations. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12308-12314	16.4	5
1050	On the Crucial Role of Isolated Electronic States in the Thermal Reaction of ReC ⁺ with Dihydrogen. <i>Angewandte Chemie</i> , 2020 , 132, 9456-9462	3.6	2
1049	Revisiting the Intriguing Electronic Features of the BeOBeC Carbyne and Some Isomers: A Quantum-Chemical Assessment. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17261-17265	16.4	0
1048	Direct Identification of Acetaldehyde Formation and Characterization of the Active Site in the [VPO]/C ₂ H ₄ Couple by Gas-Phase Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18868-18872	16.4	10
1047	Complete cleavage of the N ₂ triple bond by TaN via degenerate ligand exchange at ambient temperature: A perfect catalytic cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21416-21420	11.5	38
1046	Tuning the Reactivities of the Heteronuclear [AlVO] _n (n=1, 2) Cluster Oxides towards Methane by Varying the Composition of the Metal Centers. <i>Chemistry - A European Journal</i> , 2019 , 25, 2967-2971	4.8	5
1045	Thermal Activation of CH ₄ and H ₂ as Mediated by the Ruthenium Oxide Cluster Ions [RuO] _x (x=1-3): On the Influence of Oxidation States. <i>Chemistry - A European Journal</i> , 2019 , 25, 3550-3559	4.8	6
1044	Reassessment of the Mechanisms of Thermal C-H Bond Activation of Methane by Cationic Magnesium Oxides: A Critical Evaluation of the Suitability of Different Density Functionals. <i>ChemPhysChem</i> , 2019 , 20, 1812-1821	3.2	4
1043	A Reaction-Induced Localization of Spin Density Enables Thermal C-H Bond Activation of Methane by Pristine FeC. <i>Chemistry - A European Journal</i> , 2019 , 25, 12940-12945	4.8	13
1042	Direct Identification of Acetaldehyde Formation and Characterization of the Active Site in the [VPO ₄] ⁺ /C ₂ H ₄ Couple by Gas-Phase Vibrational Spectroscopy. <i>Angewandte Chemie</i> , 2019 , 131, 19044-19048	3.6	6
1041	Über die besondere Rolle des Stickstoffliganden in den durch [NbN] ⁺ katalysierten Redoxreaktionen von N ₂ O/CO in der Gasphase. <i>Angewandte Chemie</i> , 2019 , 131, 3674-3678	3.6	0
1040	On the Remarkable Role of the Nitrogen Ligand in the Gas-Phase Redox Reaction of the NO/CO Couple Catalyzed by [NbN]. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3635-3639	16.4	10
1039	Identification of Active Sites and Structural Characterization of Reactive Ionic Intermediates by Cryogenic Ion Trap Vibrational Spectroscopy. <i>Chemistry - A European Journal</i> , 2019 , 25, 2112-2126	4.8	53
1038	Intrinsic Reactivity of Diatomic 3d Transition-Metal Carbides in the Thermal Activation of Methane: Striking Electronic Structure Effects. <i>Journal of the American Chemical Society</i> , 2019 , 141, 599-610	16.4	19

1037	Intermediates of N-Heterocyclic Carbene (NHC) Dimerization Probed in the Gas Phase by Ion Mobility Mass Spectrometry: C-H...C Hydrogen Bonding Versus Covalent Dimer Formation. <i>Chemistry - A European Journal</i> , 2019 , 25, 2511-2518	4.8	10
1036	On the Origin of the Distinctly Different Reactivity of Ruthenium in [MO] /CH Systems (M=Fe, Ru, Os). <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5934-5937	16.4	8
1035	Ligand Effects on the Reactivity of [CoX] ⁺ (X = CN, F, Cl, Br, O, OH) Towards CO ₂ : Gas-Phase Generation of the Elusive Cyanofornate by [Co(CN)] ⁺ and [Fe(CN)] ⁺ . <i>Topics in Catalysis</i> , 2018 , 61, 575-584	2.3	7
1034	Experimental Identification of the Active Site in the Heteronuclear Redox Couples [AlVO] /CO/N O (x=3, 4) by Gas-Phase IR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7448-7452	16.4	20
1033	Direkte Umwandlung von Methan zu protoniertem Formaldehyd bei Raumtemperatur in der Gasphase: Zur Rolle von Quecksilber unter den Oxidkationen der Zinktriade. <i>Angewandte Chemie</i> , 2018 , 130, 3306-3310	3.6	5
1032	Direct Room-Temperature Conversion of Methane into Protonated Formaldehyde: The Gas-Phase Chemistry of Mercury among the Zinc Triad Oxide Cations. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3251-3255	16.4	11
1031	Über die Ursachen der deutlich unterschiedlichen Reaktivität von Ruthenium unter den [MO] ⁺ /CH ₄ -Systemen (M=Fe, Ru, Os). <i>Angewandte Chemie</i> , 2018 , 130, 6039-6043	3.6	3
1030	Selective C-O Coupling Hidden in the Thermal Reaction of [Al Cu O] with Methane. <i>Chemistry - A European Journal</i> , 2018 , 24, 14649-14653	4.8	4
1029	The Electric Field as a "Smart" Ligand in Controlling the Thermal Activation of Methane and Molecular Hydrogen. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14635-14639	16.4	23
1028	Elektrisches Feld als smarter Ligandersatz zur kontrollierten thermischen Aktivierung von Methan und molekularem Wasserstoff. <i>Angewandte Chemie</i> , 2018 , 130, 14845-14849	3.6	1
1027	Selective Nitrogen-Atom Transfer Driven by a Highly Efficient Intersystem Crossing in the [CeON] /CH System. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15902-15906	16.4	8
1026	Ta-mediated ammonia synthesis from N and H at ambient temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11680-11687	11.5	57
1025	Selektive Übertragung eines Stickstoffatoms im [CeON] ⁺ /CH ₄ -System durch hocheffizientes Intersystem Crossing. <i>Angewandte Chemie</i> , 2018 , 130, 16129-16133	3.6	2
1024	Oriented external electric fields as mimics for probing the role of metal ions and ligands in the thermal gas-phase activation of methane. <i>Dalton Transactions</i> , 2018 , 47, 15271-15277	4.3	16
1023	Experimentelle Bestimmung des aktiven Zentrums im heteronuklearen Redox-System [AlVOx] ⁺ ./CO/N ₂ O (x=3, 4) durch Gasphasen-Infrarotspektroskopie. <i>Angewandte Chemie</i> , 2018 , 130, 7570-7574	3.6	8
1022	Thermal O-H Bond Activation of Water As Mediated by Heteronuclear [AlMgO]: Evidence for Oxygen-Atom Scrambling. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9275-9281	16.4	8
1021	Unexpected Mechanistic Variants in the Thermal Gas-Phase Activation of Methane. <i>Organometallics</i> , 2017 , 36, 8-17	3.8	80
1020	Metal-mediated activation of carbon dioxide in the gas phase: Mechanistic insight derived from a combined experimental/computational approach. <i>Coordination Chemistry Reviews</i> , 2017 , 334, 112-123	23.2	91

1019	On the Origin of Reactivity Enhancement/Suppression upon Sequential Ligation: [Re(CO)]/CH (x=0-3) Couples. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2951-2954	16.4	8
1018	Méage-trois: single-atom catalysis, mass spectrometry, and computational chemistry. <i>Catalysis Science and Technology</i> , 2017 , 7, 4302-4314	5.5	107
1017	Sequential Gas-Phase Activation of Carbon Dioxide and Methane by [Re(CO)]: The Sequence of Events Matters!. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6169-6176	16.4	18
1016	On the Origin of the Remarkably Variable Reactivities of [AlCeO] (x=2-4) towards Methane as a Function of Oxygen Content. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 413-416	16.4	15
1015	Gas-phase reactions of cationic molybdenum and tungsten monoxide with ethanol: a combined experimental/computational exercise. <i>Structural Chemistry</i> , 2017 , 28, 403-413	1.8	7
1014	Metal-Free, Room-Temperature Oxygen-Atom Transfer in the N O/CO Redox Couple as Catalyzed by [Si O] (x=2-5). <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9990-9993	16.4	11
1013	Control of Product Distribution and Mechanism by Ligation and Electric Field in the Thermal Activation of Methane. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10219-10223	16.4	47
1012	Metal-Dependent Strengthening and Weakening of M-H and M-C Bonds by an Oxo Ligand: Thermal Gas-Phase Activation of Methane by [OMH] and [MH] (M=Mo, Ti). <i>Chemistry - A European Journal</i> , 2017 , 23, 12346-12352	4.8	6
1011	Electronic Origin of the Competitive Mechanisms in the Thermal Activation of Methane by the Heteronuclear Cluster Oxide [Al ZnO]. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14297-14300	16.4	5
1010	Tuning the oxidative power of free iron-sulfur clusters. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8055-8060	3.6	4
1009	Thermal Methane Activation by the Metal-Free Cluster Cation [Si O]. <i>Chemistry - A European Journal</i> , 2017 , 23, 1498-1501	4.8	9
1008	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	16.4	75
1007	Spin-Selective, Competitive Hydrogen-Atom Transfer versus CH O-Generation from the CH/[ReO] Couple at Ambient Conditions. <i>Chemistry - A European Journal</i> , 2017 , 23, 17469-17472	4.8	8
1006	On the Electronic Origin of Remarkable Ligand Effects on the Reactivities of [NiL] Complexes (L=C, H, CH, N, CN) towards Methane. <i>Chemistry - A European Journal</i> , 2017 , 23, 14430-14433	4.8	4
1005	Ursachen der unterschiedlichen Reaktivität von [AlCeOx] ⁺ (x=2-4) gegenüber Methan in Abhängigkeit vom Sauerstoffgehalt. <i>Angewandte Chemie</i> , 2017 , 129, 424-428	3.6	8
1004	Reaktitelbild: Steuerung der Produktverteilung und der Mechanismen der thermischen Aktivierung von Methan durch Ligandeneffekte und elektrische Felder (Angew. Chem. 34/2017). <i>Angewandte Chemie</i> , 2017 , 129, 10382-10382	3.6	
1003	Elektronische Ursache konkurrierender Mechanismen bei der thermischen Aktivierung von Methan durch das heteronukleare Clusteroxid [Al ₂ ZnO ₄] ⁺ . <i>Angewandte Chemie</i> , 2017 , 129, 14486-14490	3.6	2
1002	Metallfreier, durch [Si ₂ Ox] ⁺ (x=2-4) katalysierter Sauerstofftransfer im N ₂ O/CO-Redoxpaar bei Raumtemperatur. <i>Angewandte Chemie</i> , 2017 , 129, 10122-10126	3.6	7

1001	Steuerung der Produktverteilung und der Mechanismen der thermischen Aktivierung von Methan durch Ligandeneffekte und elektrische Felder. <i>Angewandte Chemie</i> , 2017 , 129, 10353-10357	3.6	9
1000	On the Origin of Reactivity Enhancement/Suppression upon Sequential Ligation: [Re(CO) _x] ⁺ /CH ₄ (x=0B) Couples. <i>Angewandte Chemie</i> , 2017 , 129, 2997-3000	3.6	2
999	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	16.4	114
998	Striking Doping Effects on Thermal Methane Activation Mediated by the Heteronuclear Metal Oxides [XAlO] (X=V, Nb, and Ta). <i>Chemistry - A European Journal</i> , 2017 , 23, 788-792	4.8	15
997	Efficient Room-Temperature Methane Activation by the Closed-Shell, Metal-Free Cluster [OSiOH] ⁺ : A Novel Mechanistic Variant. <i>Chemistry - A European Journal</i> , 2016 , 22, 14257-63	4.8	12
996	Efficient Room-Temperature Activation of Methane by TaN ⁺ under C-N Coupling. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11678-81	16.4	15
995	On the Activation of Methane and Carbon Dioxide by [HTaO] ⁺ and [TaOH] ⁺ in the Gas Phase: A Mechanistic Study. <i>Chemistry - A European Journal</i> , 2016 , 22, 10581-9	4.8	16
994	Hidden Hydride Transfer as a Decisive Mechanistic Step in the Reactions of the Unligated Gold Carbide [AuC] with Methane under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13072-13075	16.4	41
993	Thermal Methane Activation by [Si O] and [Si O H]: Reactivity Enhancement by Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13345-13348	16.4	4
992	The Unique Gas-Phase Chemistry of the [AuO] ⁺ /CH ₄ Couple: Selective Oxygen-Atom Transfer to, Rather than Hydrogen-Atom Abstraction from, Methane. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10877-80	16.4	15
991	The Origin of the Efficient, Thermal Chemisorption of Methane by the Heteronuclear Metal-Oxide Cluster [Al TaO]. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14867-14871	16.4	13
990	Thermische Methanaktivierung durch [Si2O5] ⁺ und [Si2O5H2] ⁺ : Reaktivitätssteigerung durch Hydrierung. <i>Angewandte Chemie</i> , 2016 , 128, 13540-13543	3.6	2
989	Thermische Dehydrierung von Methan durch [ReN] ⁺ . <i>Angewandte Chemie</i> , 2016 , 128, 15085-15089	3.6	7
988	Zum Ursprung der effizienten thermischen Chemisorption von Methan durch den heteronuklearen Metalloxidcluster [Al2TaO5] ⁺ . <i>Angewandte Chemie</i> , 2016 , 128, 15090-15094	3.6	9
987	Electronic Origins of the Variable Efficiency of Room-Temperature Methane Activation by Homo- and Heteronuclear Cluster Oxide Cations [XYO2] ⁺ (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, 7973-81	16.4	74
986	Unravelling Mechanistic Aspects of the Gas-Phase Ethanol Conversion: An Experimental and Computational Study on the Thermal Reactions of MO ₂ ⁺ (M=Mo, W) with Ethanol. <i>Chemistry - A European Journal</i> , 2016 , 22, 3077-83	4.8	8
985	Differences and Commonalities in the Gas-Phase Reactions of Closed-Shell Metal Dioxide Clusters [MO ₂] ⁺ (M=V, Nb, and Ta) with Methane. <i>Chemistry - A European Journal</i> , 2016 , 22, 7225-8	4.8	30
984	Bond Activation by Metal-Carbene Complexes in the Gas Phase. <i>Accounts of Chemical Research</i> , 2016 , 49, 494-502	24.3	59

983	Penetrating the Elusive Mechanism of Copper-Mediated Fluoromethylation in the Presence of Oxygen through the Gas-Phase Reactivity of Well-Defined [LCuO](+) Complexes with Fluoromethanes (CH _{4-n} F _n , n = 1-3). <i>Journal of the American Chemical Society</i> , 2016 , 138, 3125-35	16.4	27
982	Mechanistic aspects of CO ₂ activation mediated by phenyl yttrium cation: A combined experimental/theoretical study. <i>Journal of Catalysis</i> , 2016 , 343, 68-74	7.3	9
981	Spinabhängige, thermische Aktivierung von Methan durch den geschlossenschaligen Cluster [TaO ₃] ⁺ . <i>Angewandte Chemie</i> , 2016 , 128, 7374-7377	3.6	18
980	Thermische Aktivierung von Methan durch [HfO] ₂ ⁺ und [XHfO] ₂ ⁺ (X=F, Cl, Br, I): ein außergewöhnlicher Ligandeneffekt und dessen Ursache. <i>Angewandte Chemie</i> , 2016 , 128, 7816-7819	3.6	9
979	Spin-Selective Thermal Activation of Methane by Closed-Shell [TaO ₃] ^(.) . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7257-60	16.4	32
978	Thermal Activation of Methane by [HfO] ₂ ^(.) and [XHfO] ₂ ^(.) (X=F, Cl, Br, I) and the Origin of a Remarkable Ligand Effect. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7685-8	16.4	18
977	Breaking and Making of Carbon-Carbon Bonds by Lanthanides and Third-Row Transition Metals. <i>Chemistry - A European Journal</i> , 2016 , 22, 3073-6	4.8	8
976	Mechanistic Aspects of the Holmium-Mediated, Reciprocal Hydrogen/Sulfur Exchange in the Gas Phase: C ₆ H ₅ CH ₃ + CH ₂ S-C ₆ H ₅ CH ₃ +CH ₄ . <i>Chemistry - A European Journal</i> , 2016 , 22, 4336-9	4.8	2
975	Efficient Room-Temperature, Au ⁽⁺⁾ -Mediated Coupling of a Carbene Ligand with Methane To Generate C ₂ H _x (x = 4, 6). <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 441-4	16.4	31
974	Au ⁺ -vermittelte, effiziente Kupplung eines Carbenliganden mit Methan: Bildung von C ₂ H _x (x=4, 6) bei Raumtemperatur. <i>Angewandte Chemie</i> , 2016 , 128, 452-455	3.6	14
973	Thermal Dehydrogenation of Methane by [ReN]. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14863-14866	16.4	14
972	Hidden Hydride Transfer as a Decisive Mechanistic Step in the Reactions of the Unligated Gold Carbide [AuC] ⁺ with Methane under Ambient Conditions. <i>Angewandte Chemie</i> , 2016 , 128, 13266-13269	3.6	18
971	Die Chemie von [AuO] ⁺ /CH ₄ in der Gasphase: Selektive Sauerstoffatom-Übertragung auf, statt Wasserstoffatom-Abstraktion von Methan. <i>Angewandte Chemie</i> , 2016 , 128, 11036-11039	3.6	5
970	Effiziente, thermische Aktivierung von Methan durch TaN ⁺ unter C-N-Kupplung. <i>Angewandte Chemie</i> , 2016 , 128, 11851-11855	3.6	7
969	Mechanistic Variants in Gas-Phase Metal-Oxide Mediated Activation of Methane at Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11368-77	16.4	68
968	On the Origin of Room-Temperature, Au ⁺ -mediated Coupling of a Methylene Ligand with H ₂ . Implications for the Mechanism of Methane Dehydrogenation.. <i>ChemistrySelect</i> , 2016 , 1, 444-447	1.8	10
967	Thermal hydrogen-atom transfer from methane: A mechanistic exercise. <i>Chemical Physics Letters</i> , 2015 , 629, 91-101	2.5	96
966	Mechanistic aspects of the gas-phase coupling of thioanisole and chlorobenzene to dibenzothiophene catalyzed by atomic Ho ⁽⁺⁾ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9564-8	3.6	3

965	Activation of Methane and Carbon Dioxide Mediated by Transition-Metal Doped Magnesium Oxide Clusters [MMgO](+/0/-) (M=Sc-Zn). <i>Chemistry - A European Journal</i> , 2015 , 21, 7780-9	4.8	28
964	Carbon-Atom Extrusion from Halobenzenes and Its Coupling with a Methylene Ligand to Form Acetylene. <i>Chemistry - A European Journal</i> , 2015 , 21, 9629-31	4.8	8
963	Effect of adduct formation with molecular nitrogen on the measured collisional cross sections of transition metal-1,10-phenanthroline complexes in traveling wave ion-mobility spectrometry: N ₂ is not always an "inert" buffer gas. <i>Analytical Chemistry</i> , 2015 , 87, 9769-76	7.8	11
962	Distinct mechanistic differences in the hydrogen-atom transfer from methane and water by the heteronuclear oxide cluster [Ga ₂ MgO ₄](.). <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12298-3024	16.4	24
961	On the role of the electronic structure of the heteronuclear oxide cluster [Ga ₂ Mg ₂ O ₅](.+) in the thermal activation of methane and ethane: an unusual doping effect. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5074-8	16.4	33
960	Zur Rolle der Elektronenstruktur des heteronuklearen Oxidclusters [Ga ₂ Mg ₂ O ₅].+ in der thermischen Aktivierung von Methan und Ethan: ein ungewöhnlicher Dotierungseffekt. <i>Angewandte Chemie</i> , 2015 , 127, 5163-5167	3.6	15
959	Dotierungseffekte bei Cluster-vermittelten Bindungsaktivierungen. <i>Angewandte Chemie</i> , 2015 , 127, 10228-10239	3.6	47
958	"Stripping" the carbon atom of methyl halide by a cationic holmium complex: a gas-phase study. <i>Chemistry - A European Journal</i> , 2015 , 21, 14305-8	4.8	2
957	Deutlich unterschiedliche Mechanismen der Wasserstoffatomabstraktion aus Methan und Wasser durch den heteronuklearen Oxidcluster [Ga ₂ MgO ₄].+. <i>Angewandte Chemie</i> , 2015 , 127, 12472-12477	3.6	9
956	Zum Mechanismus des Wasserstoffatomtransfers von Wasser auf den heteronuklearen Oxidcluster [Ga ₂ Mg ₂ O ₅].+: außergewöhnliche Effekte der elektronischen Struktur. <i>Angewandte Chemie</i> , 2015 , 127, 12028-12032	3.6	6
955	On the Mechanisms of Hydrogen-Atom Transfer from Water to the Heteronuclear Oxide Cluster [Ga ₂ Mg ₂ O ₅](.+) : Remarkable Electronic Structure Effects. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11861-4	16.4	16
954	Ligand-Controlled CO ₂ Activation Mediated by Cationic Titanium Hydride Complexes, [LTiH](+) (L=Cp ₂ , O). <i>Chemistry - A European Journal</i> , 2015 , 21, 8483-90	4.8	29
953	Doping Effects in Cluster-Mediated Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10090-100	16.4	123
952	Frontispiece: Distinct Mechanistic Differences in the Hydrogen-Atom Transfer from Methane and Water by the Heteronuclear Oxide Cluster [Ga ₂ MgO ₄].+. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, n/a-n/a	16.4	1
951	Mechanistic aspects of the gas-phase reactions of halobenzenes with bare lanthanide cations: a combined experimental/theoretical investigation. <i>Chemistry - A European Journal</i> , 2015 , 21, 2123-31	4.8	10
950	Thermal ethane activation by bare [V ^{III}] ⁺ and [Nb ^{III}] ⁺ cluster cations: on the origin of their different reactivities. <i>Chemistry - A European Journal</i> , 2014 , 20, 6672-7	4.8	22
949	Mechanisms of Metal-Mediated C _N Coupling Processes: A Synergistic Relationship between Gas-Phase Experiments and Computational Chemistry 2014 , 1-16		3
948	On divorcing isomers, dissecting reactivity, and resolving mechanisms of propane CH and aryl CX (X=halogen) bond activations mediated by a ligated copper(III) oxo complex. <i>Chemical Physics Letters</i> , 2014 , 608, 408-424	2.5	29

- 947 Highly regioselective hydride transfer, oxidative dehydrogenation, and hydrogen-atom abstraction in the thermal gas-phase chemistry of $[\text{Zn}(\text{OH})]^+(\text{+})/\text{C}_3\text{H}_8$. *Physical Chemistry Chemical Physics*, **2014**, 16, 26617-23 3.6 11
- 946 How and Why Do Cluster Size, Charge State, and Ligands Affect the Course of Metal-Mediated Gas-Phase Activation of Methane?. *Israel Journal of Chemistry*, **2014**, 54, 1413-1431 3.4 162
- 945 C-N coupling in the gas-phase reactions of ammonia and $[\text{M}(\text{CH})]^+$ ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$): a combined experimental/computational exercise. *Dalton Transactions*, **2013**, 42, 4153-62 4.3 14
- 944 On the Origin of the Surprisingly Sluggish Redox Reaction of the $\text{N}_2\text{O}/\text{CO}$ Couple Mediated by $[\text{Y}_2\text{O}_2]^+$ and $[\text{YAlO}_2]^+$. Cluster Ions in the Gas Phase. *Angewandte Chemie*, **2013**, 125, 1264-1268 3.6 22
- 943 On the origin of the surprisingly sluggish redox reaction of the $\text{N}_2\text{O}/\text{CO}$ couple mediated by $[\text{Y}_2\text{O}_2]^+$ and $[\text{YAlO}_2]^+$ cluster ions in the gas phase. *Angewandte Chemie - International Edition*, **2013**, 52, 1226-30 16.4 55
- 942 Isomer-selective thermal activation of methane in the gas phase by $[\text{HMO}]^+$ and $[\text{M}(\text{OH})]^+$ ($\text{M} = \text{Ti}$ and V). *Angewandte Chemie - International Edition*, **2013**, 52, 6097-101 16.4 38
- 941 Single and double N-H bond activation of ammonia by $[\text{Al}_2\text{O}_3]^+$: room temperature formation of the aminyl radical and nitrene. *Angewandte Chemie - International Edition*, **2013**, 52, 9513-7 16.4 6
- 940 Structure and chemistry of the heteronuclear oxo-cluster $[\text{VPO}_4]^+$: a model system for the gas-phase oxidation of small hydrocarbons. *Journal of the American Chemical Society*, **2013**, 135, 3711-21 16.4 64
- 939 Gas-phase reactions of cationic vanadium-phosphorus oxide clusters with $\text{C}_2\text{H}(x)$ ($x=4, 6$): a DFT-based analysis of reactivity patterns. *Chemistry - A European Journal*, **2013**, 19, 3017-28 4.8 23
- 938 Thermal Activation of Ammonia by Transition-Metal Hydroxide Cations. *ChemPlusChem*, **2013**, 78, 886 2.8
- 937 Thermal Activation of Ammonia by Transition-Metal Hydroxide Cations. *ChemPlusChem*, **2013**, 78, 952-958 3
- 936 Thermal methane activation by a binary V-Nb transition-metal oxide cluster cation: a further example for the crucial role of oxygen-centered radicals. *Chemistry - A European Journal*, **2013**, 19, 11496-501 4.8 25
- 935 Mechanistic aspects of gas-phase hydrogen-atom transfer from methane to $[\text{CO}]^+(\text{+})$ and $[\text{SiO}]^+(\text{+})$: why do they differ?. *Chemistry - A European Journal*, **2013**, 19, 6662-9 4.8 22
- 934 R&Ktitelbild: Einfache und doppelte N-H-Aktivierung in NH_3 durch $[\text{Al}_2\text{O}_3]^+$: Erzeugung des Aminylradikals und von Nitren bei Raumtemperatur (Angew. Chem. 36/2013). *Angewandte Chemie*, **2013**, 125, 9762-9762 3.6
- 933 Einfache und doppelte N-H-Aktivierung in NH_3 durch $[\text{Al}_2\text{O}_3]^+$: Erzeugung des Aminylradikals und von Nitren bei Raumtemperatur. *Angewandte Chemie*, **2013**, 125, 9691-9695 3.6 1
- 932 Isomerenabh&angige, thermische Aktivierung von Methan durch $[\text{HMO}]^+$ und $[\text{M}(\text{OH})]^+$ ($\text{M} = \text{Ti}$ und V) in der Gasphase. *Angewandte Chemie*, **2013**, 125, 6213-6217 3.6 21
- 931 Mechanistic aspects and elementary steps of N-H bond activation of ammonia and C-N coupling induced by gas-phase ions: a combined experimental/computational exercise. *Chemistry - A European Journal*, **2012**, 18, 40-9 4.8 34
- 930 Rollover/cyclometalation: early history, recent developments, mechanistic insights and application aspects. *Chemical Science*, **2012**, 3, 308-326 9.4 127

929	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	2.8	117
928	Mechanistic studies on the gas-phase dehydrogenation of alkanes at cyclometalated platinum complexes. <i>Chemistry - A European Journal</i> , 2012 , 18, 14055-62	4.8	11
927	Neutral Metal Atoms Acting as a Leaving Group in Gas-Phase SN2 Reactions: $M(CH_3)^+ + NH_3 \rightarrow CH_3NH_3^+ + M$ ($M = Zn, Cd, Hg$). <i>Organometallics</i> , 2012 , 31, 3816-3824	3.8	26
926	C-N- und C-C-Bindungsknüpfung in der Reaktion von \bar{a} acktem $Ni(NH_2)^+$ mit C_2H_4 : Mechanistische Erkenntnisse über die metallvermittelte Hydroaminierung eines nichtaktivierten Olefins. <i>Angewandte Chemie</i> , 2012 , 124, 3541-3546	3.6	8
925	Thermische Wasserstoffabstraktion aus Methan über die Rolle von Radikalen und Spinzuständen in der Chemie von Oxoclustern. <i>Angewandte Chemie</i> , 2012 , 124, 5638-5650	3.6	111
924	Direkte Umwandlung von Methan zu Formaldehyd durch kationisches $[Al_2O_3]^+$ bei Raumtemperatur. <i>Angewandte Chemie</i> , 2012 , 124, 3763-3767	3.6	36
923	Zur Reaktion von $YAlO_3^+$ mit Methan bei Raumtemperatur: Dotierung macht $Y_2O_3^+$ reaktiver und $Al_2O_3^+$ selektiver. <i>Angewandte Chemie</i> , 2012 , 124, 6093-6096	3.6	30
922	C-N and C-C bond formations in the thermal reactions of "bare" $Ni(NH_2)^+$ with C_2H_4 : mechanistic insight on the metal-mediated hydroamination of an unactivated olefin. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3483-8	16.4	21
921	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, 5544-55	16.4	338
920	Direct conversion of methane into formaldehyde mediated by $[Al_2O_3]^+$ at room temperature. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3703-7	16.4	89
919	Thermal reactions of $YAlO_3^+$ with methane: increasing the reactivity of $Y_2O_3^+$ and the selectivity of $Al_2O_3^+$ by doping. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5991-4	16.4	62
918	Thermal ammonia activation by cationic transition-metal hydrides of the first row--small but mighty. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1214-20	4.5	17
917	Structure of the oxygen-rich cluster cation $Al_2O_7^+$ and its reactivity toward methane and water. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16930-7	16.4	69
916	On the Activation of Chloromethanes by Cyclometalated $[Pt(bipy)(H)]^+$ in the Gas Phase: A Mechanistic Study. <i>International Journal of Mass Spectrometry</i> , 2011 , 306, 108-113	1.9	17
915	Probing elementary steps of nickel-mediated bond activation in gas-phase reactions: Ligand- and cluster-size effects. <i>Journal of Catalysis</i> , 2011 , 284, 126-137	7.3	47
914	Bonding in cationic $MOH + n$ ($M = K, La, Hf, Rn; n = 0, 1$): DFT performances and periodic trends. <i>Theoretical Chemistry Accounts</i> , 2011 , 129, 389-399	1.9	40
913	Darstellung, Reaktivität gegenüber Kohlenwasserstoffen und elektronische Struktur von heteronuclearen Vanadium-Phosphor-Sauerstoff-Clusterionen. <i>Angewandte Chemie</i> , 2011 , 123, 1466-1470	3.6	42
912	Chemie mit Methan: Studieren geht über Probieren!. <i>Angewandte Chemie</i> , 2011 , 123, 10276-10297	3.6	164

911	Effiziente und selektive Monomethylierung kontra N-H-Bindungsaktivierung von Ammoniak: atomares Zink als Abgangsgruppe in einer SN ₂ -Reaktion von $\text{Zn}(\text{CH}_3)^+$ und NH_3 . <i>Angewandte Chemie</i> , 2011 , 123, 5499-5503	3.6	13
910	Über die Rolle von $[\text{CuO}]^+$ bei spinselektiven Wasserstoff- und Sauerstoff-Übertragungen in der Aktivierung von Methan. <i>Angewandte Chemie</i> , 2011 , 123, 5068-5072	3.6	59
909	Redoxreaktionen des CO/N ₂ O-Systems, katalysiert durch das bimetallische Oxidclusterpaar $\text{AlVO}_3^+/\text{AlVO}_4^+$. <i>Angewandte Chemie</i> , 2011 , 123, 12559-12562	3.6	30
908	Generation, reactivity towards hydrocarbons, and electronic structure of heteronuclear vanadium phosphorous oxygen cluster ions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1430-4	16.4	70
907	Chemistry with methane: concepts rather than recipes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10096-115	16.4	534
906	Efficient and selective gas-phase monomethylation versus N-H bond activation of ammonia by "bare" $\text{Zn}(\text{CH}_3)^+$: atomic zinc as a leaving group in an SN ₂ reaction. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5387-91	16.4	23
905	Diatomic $[\text{CuO}]^+$ 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, 4966-9	16.4	145
904	Catalytic redox reactions in the CO/N ₂ O system mediated by the bimetallic oxide-cluster couple $\text{AlVO}_3^+/\text{AlVO}_4^+$. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12351-4	16.4	63
903	Directed, remote gas-phase C-H and C-C bond activations by metal oxide cations anchored to a nitrile group. <i>Chemistry - A European Journal</i> , 2011 , 17, 1783-8	4.8	17
902	Thermal activation of N-H bonds by transition-metal oxide cations: does a hierarchy exist in the first row?. <i>Chemistry - A European Journal</i> , 2011 , 17, 3886-92	4.8	14
901	The "missing link": the gas-phase generation of platinum-methylidyne clusters $\text{Pt}(n)\text{CH}^+$ ($n=1, 2$) and their reactions with hydrocarbons and ammonia. <i>Chemistry - A European Journal</i> , 2011 , 17, 11761-72	4.8	17
900	Thermal activation of methane and ethene by bare MO^+ ($M=\text{Ge}, \text{Sn}, \text{and Pb}$): a combined theoretical/experimental study. <i>Chemistry - A European Journal</i> , 2011 , 17, 9619-25	4.8	44
899	Thermal C-H Bond Activation of Benzene, Toluene, and Methane with Cationic $[\text{M}(\text{X})(\text{bipy})]^+$ ($M = \text{Ni}, \text{Pd}, \text{Pt}; \text{X} = \text{CH}_3, \text{Cl}; \text{bipy} = 2,2'$ -bipyridine): A Mechanistic Study. <i>Organometallics</i> , 2011 , 30, 1588-1598	3.8	44
898	Neutralization/Deionization study of the allyloxide anion. <i>International Journal of Mass Spectrometry</i> , 2011 , 301, 84-89	1.9	3
897	Crossed-beam scattering studies of electron-transfer processes between the dication CO_2^{2+} and neutral CO_2 : electronic states of reactants and products involved. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 6463-71	2.8	10
896	Isomerization of an N-Heterocyclic Germylene to an Azagermabenzen-1-ylidene and Its Coupling to a Unique Bis(germylene) δ . <i>Organometallics</i> , 2010 , 29, 5353-5357	3.8	18
895	Metal-dependent alternative activation of O-H and C-H bonds of methanol: on the formation and structure of "bare" $[\text{M}, \text{C}, \text{H}_3, \text{O}]^+$ complexes ($M = \text{Fe}, \text{Co}, \text{Ni}$) in the gas phase. <i>Chemical Communications</i> , 2010 , 46, 1878-80	5.8	20
894	Mechanistic Study on the Gas-Phase Generation of Bimetallic Cyclometalated $[\text{M}(\text{bipy})\text{H}]^+$ ($M = \text{Ni}, \text{Pd}, \text{Pt}$)	3.8	52

893	Selective C-H versus O-H Bond Activation of CH ₃ OH upon Electrospraying Methanolic Solutions of MX ₂ (M=Fe, Co, Ni; X=Br, I): A DFT Study. <i>ChemCatChem</i> , 2010 , 2, 799-802	5.2	17
892	Thermal Activation of Methane by Diatomic Metal Oxide Radical Cations: PbO ⁺ as One of the Missing Pieces. <i>ChemCatChem</i> , 2010 , 2, 1391-1394	5.2	29
891	Reactivity Pattern in the Room-Temperature Activation of NH ₃ by the Main-Group Atomic Ions Ga ⁺ , Ge ⁺ , As ⁺ and Se ⁺ . <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1516-1521	2.3	17
890	Ion-molecule reactions of "rollover" cyclometalated [Pt(bipy-H)] ⁺ (bipy=2,2'-bipyridine) with dimethyl ether in comparison with dimethyl sulfide: an experimental/computational study. <i>Chemistry - A European Journal</i> , 2010 , 16, 3962-9	4.8	28
889	Generation of gas-phase nanosized vanadium oxide clusters from a mononuclear precursor by solution nucleation and electrospray ionization. <i>Chemistry - A European Journal</i> , 2010 , 16, 1163-7	4.8	21
888	Competitive hydrogen-atom abstraction versus oxygen-atom and electron transfers in gas-phase reactions of [X ₄ O ₁₀] ⁴⁺ (X = P, V) with C ₂ H ₄ . <i>Chemistry - A European Journal</i> , 2010 , 16, 4452-6	4.8	40
887	Bonding in cationic MCH ₂ ⁺ (M=K-La, Hf-Rn): a theoretical study on periodic trends. <i>Chemistry - A European Journal</i> , 2010 , 16, 5882-8	4.8	50
886	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, 11605-10	4.8	76
885	N ₂ activation by a hafnium complex: a DFT study on CO-assisted dinitrogen cleavage and functionalization. <i>Chemistry - A European Journal</i> , 2010 , 16, 12564-9	4.8	14
884	Coordination chemistry of nickel(II) nitrate with superbasic guanidines as studied by electrospray mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2010 , 290, 22-31	1.9	8
883	On the gas-phase decomposition of acyclic ethers mediated by rollover-cyclometalated [Pt(bipy-H)] ⁺ (bipy=2,2'-bipyridine): A mechanistic study. <i>International Journal of Mass Spectrometry</i> , 2010 , 291, 125-132	1.9	7
882	Thermal N-H bond activation on anionic and cationic platinum clusters: non-predetermined reaction pathways indicate transitions to a bulk surface reactivity. <i>Chemistry - A European Journal</i> , 2009 , 15, 8465-74	4.8	13
881	Thermal homo- and heterolytic C-H bond activation of ethane and propane by bare [P(4)O(10)] ^(*+) : regioselectivities, kinetic isotope effects, and density functional theory based potential-energy surfaces. <i>Chemistry - A European Journal</i> , 2009 , 15, 11100-4	4.8	33
880	The SiF ₃ (2 ⁺) dication: chemistry counts!. <i>Chemistry - A European Journal</i> , 2009 , 15, 9995-9	4.8	24
879	A DFT-based analysis of the grossly varying reactivity pattern in room-temperature activation and dehydrogenation of CH ₄ by main-group atomic M ⁺ (M=Ga, Ge, As, and Se). <i>Chemistry - A European Journal</i> , 2009 , 15, 11559-65	4.8	13
878	Isotope-sensitive degenerate [1,3]-hydrogen migration versus competitive enol-keto tautomerization. <i>Chemistry - A European Journal</i> , 2009 , 15, 11815-9	4.8	7
877	DFT Studies on the Thermal Activation of Molecular Oxygen by Bare [Ni(H)(OH)] ⁺ . <i>Helvetica Chimica Acta</i> , 2009 , 92, 151-164	2	10
876	Aktivierung der C-H-Bindung von Methan bei Raumtemperatur durch nacktes [P ₄ O ₁₀] ⁺ . <i>Angewandte Chemie</i> , 2009 , 121, 4955-4957	3.6	66

875	Facile dissociation of [(LNi(II)) ₂ E ₂] dichalcogenides: evidence for [LNi(II)E ₂] superselenides and supertellurides in solution. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4551-4	16.4	24
874	Room-temperature C-H bond activation of methane by bare [P(4)O(10)](•+). <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4861-3	16.4	120
873	Platinum(II)-mediated dehydrosulfurization and oxidative carbon-carbon coupling in the gas-phase decomposition of thioethers. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 3-8	1.9	17
872	A redox non-innocent ligand controls the life time of a reactive quartet excited state - an MCSCF study of [Ni(H)(OH)](•+). <i>Journal of the American Chemical Society</i> , 2009 , 131, 12634-42	16.4	32
871	Pronounced cluster-size effects: gas-phase reactivity of bare vanadium cluster cations V(n) ⁺ (n = 1-7) toward methanol. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5625-32	2.8	22
870	Thermal C-H Bond Activation of Benzene with Cationic [Pt(CX ₃)(L)] ⁺ Complexes in the Gas Phase: A Combined Experimental/Theoretical Study (X = H, D; L = 1,10-Phenanthroline, 2,2'-Bipyrimidine, 2,2'-Bipyridine, and (o,o'-Cl ₂ C ₆ H ₃)N ⁺ C(CH ₃) ₂ (CH ₃) ⁺ N(o,o'-Cl ₂ C ₆ H ₃)). <i>Organometallics</i> , 2009 , 28, 4340-4349	3.8	39
869	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 , 10155-65	4.3	86
868	Gaseous Ni ⁺ complexes with BINOL derivatives and chiral esters in the gas phase: an experimental and theoretical investigation. <i>Collection of Czechoslovak Chemical Communications</i> , 2009 , 74, 255-273		1
867	Solvation of copper(II) sulfate in binary water/N,N-dimethylformamide mixtures: from the solution to the gas phase. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4365-71	3.4	31
866	Competition of electron transfer, dissociation, and bond-forming processes in the reaction of the CO(2)(2 ⁺) dication with neutral CO(2). <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5135-43	3.6	26
865	Gas-phase C-H and N-H bond activation by a high valent nitrido-iron dication and NH-transfer to activated olefins. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4285-94	16.4	79
864	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, 18114-9	11.5	216
863	Gas-phase proton affinities of guanidines with heteroalkyl side chains. <i>International Journal of Mass Spectrometry</i> , 2008 , 270, 39-46	1.9	33
862	General trends in dissociations of medium-sized hydrocarbon dications. <i>International Journal of Mass Spectrometry</i> , 2008 , 277, 107-112	1.9	10
861	On the mechanisms of degenerate ligand exchange in [M(CH ₃) ₃](⁺)/CH ₄ Couples (M=Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt) as explored by mass spectrometric and computational studies: oxidative addition/reductive elimination versus sigma-complex-assisted metathesis. <i>Chemistry - A European Journal</i> , 2008 , 14, 5229-36	4.8	44
860	The phenoxy/phenol/copper cation: a minimalistic model of bonding relations in active centers of mononuclear copper enzymes. <i>Chemistry - A European Journal</i> , 2008 , 14, 4318-27	4.8	58
859	Generation and reactivity of enantiomeric (BINOLato)Ni ⁺ complexes with chiral secondary alcohols in the gas phase. <i>Chemistry - A European Journal</i> , 2008 , 14, 5957-65	4.8	7
858	"Roll-over" cyclometalation of 2,2'-bipyridine platinum(II) complexes in the gas phase: a combined experimental and computational study. <i>Chemistry - A European Journal</i> , 2008 , 14, 11050-60	4.8	47

857	Insertion of Molecular Oxygen in Transition-Metal Hydride Bonds, Oxygen-Bond Activation, and Unimolecular Dissociation of Metal Hydroperoxide Intermediates. Short Communication. <i>Helvetica Chimica Acta</i> , 2008 , 91, 379-386	2	21
856	Room-Temperature Alkyne-Nitrile Metathesis and Unambiguous Proof for the Existence of a High-Valent Iron-Nitrido Dication in the Gas Phase. Short Communication. <i>Helvetica Chimica Acta</i> , 2008 , 91, 1430-1434	2	29
855	Competitive Intramolecular Aryl- and Alkyl-C-H Bond Activation and Ligand Evaporation from Gaseous Bisimino Complexes [Pt(L)(CH ₃)(CH ₃ 2S)] ⁺ (L=C ₆ H ₅ N=C(CH ₃) ₂ NC ₆ H ₅). <i>Helvetica Chimica Acta</i> , 2008 , 91, 1902-1915	2	14
854	Ligand Effects on the Mechanisms of Thermal Bond Activation in the Gas-Phase Reactions NiX ⁺ /CH ₄ -Ni(CH ₃) ⁺ /HX (X=H, CH ₃ , OH, F). Short Communication. <i>Helvetica Chimica Acta</i> , 2008 , 91, 2203-2210	3 ¹	31
853	Gas-Phase Chemistry of Vanadium Oxide Cluster Cations V _m O _n ⁺ (m = 1-4; n = 1-10) with Water and Molecular Oxygen. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 4961-4967	2.3	42
852	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, 1946-50	16.4	164
851	Methanaktivierung durch (Al ₂ O ₃) _x ⁺ (x=3,4,5): die Rolle von Sauerstoff-zentrierten Radikalen bei thermischer Abstraktion eines Wasserstoffatoms von Methan. <i>Angewandte Chemie</i> , 2008 , 120, 1972-1976	3.6	70
850	Gaseous iron(II) and iron(III) complexes with BINOLate ligands. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 121-5	3.5	11
849	Gas-phase reactivities of charged platinum dimers with ammonia: A combined experimental/theoretical study. <i>Chemical Physics Letters</i> , 2008 , 450, 268-273	2.5	16
848	Computational and experimental exploration of the gas-phase chemistry of alkyloxalate ions ROCOCOO ⁻ (R=H, CH ₃ , C ₂ H ₅ , i-C ₃ H ₇ , and t-C ₄ H ₉). <i>International Journal of Mass Spectrometry</i> , 2008 , 269, 62-70	1.9	8
847	Gas-phase chemistry of alkylcarbonate anions and radicals. <i>International Journal of Mass Spectrometry</i> , 2008 , 270, 68-80	1.9	4
846	Dehydrogenation of methanol by vanadium oxide and hydroxide cluster cations in the gas phase. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3278-86	2.8	37
845	Unexpected gas-phase reactivity of the CH ₃ OH adduct of Michler's hydrol blue: proton-shuttle catalysis and stepwise radical expulsions. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 8925-33	2.8	20
844	Ligand and substrate effects in gas-phase reactions of NiX ⁽⁺⁾ /RH couples (X=F, Cl, Br, I; R=CH ₃ , C ₂ H ₅ , nC ₃ H ₇ , nC ₄ H ₉). <i>Chemistry - A European Journal</i> , 2007 , 13, 6810-6	4.8	32
843	Pronounced ligand effects and the role of formal oxidation states in the nickel-mediated thermal activation of methane. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1641-4	16.4	63
842	Thermal activation of methane by group 10 metal hydrides MH ⁺ : the same and not the same. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5614-7	16.4	55
841	Thermische Aktivierung von Methan durch kationische Nickelkomplexe: Einfluss von Liganden und formaler Oxidationsstufe. <i>Angewandte Chemie</i> , 2007 , 119, 1667-1671	3.6	25
840	Thermische Aktivierung von Methan durch kationische Metallhydride MH ⁺ der 10. Gruppe: gleich und doch verschieden. <i>Angewandte Chemie</i> , 2007 , 119, 5711-5715	3.6	20

839	Specific Processes and Scrambling in the Dehydrogenation of Ethane and the Degenerate Hydrogen Exchange in the Gas-Phase Ion Chemistry of the Ni(C ₂ H ₃ O) ⁺ /C ₂ H ₆ Couple. <i>Helvetica Chimica Acta</i> , 2007 , 90, 847-853	2	16
838	Enantioselective Dehydrogenation of Alkan-2-ols by Gaseous (BINOLate)Ni ⁺ . <i>Helvetica Chimica Acta</i> , 2007 , 90, 2274-2280	2	5
837	Fragmentation of the (Cyclam-acetato)iron Azide Cation in the Gas Phase. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 816-821	2.3	31
836	Gas-Phase Fragmentation Behavior of Vanadium(V) Complexes Containing One Molecule of a C4-Dicarboxylic Acid. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3335-3341	2.3	2
835	Dehydration and Dehydrogenation of Alcohols with Mononuclear Cationic Vanadium Oxides in the Gas Phase and Energetics of VOnH ⁺ (n = 2, 3). <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2454-2464	2.3	25
834	Gas-phase infrared photodissociation spectroscopy of tetravanadiumoxo and oxo-methoxo cluster anions. <i>ChemPhysChem</i> , 2007 , 8, 1640-7	3.2	27
833	Electrospray ionization mass spectrometric investigations of dicarbonyl compounds: Probing intermediates formed in the course of the nonenzymatic browning reaction of l-ascorbic acid. <i>International Journal of Mass Spectrometry</i> , 2007 , 262, 169-173	1.9	26
832	Doubly protonated 1,3,5-trimethylenebenzene (C ₉ H ₁₁ 2 ⁺) and homologous C ₇ H ₇ 2 ⁺ and C ₈ H ₉ 2 ⁺ dications: Structures and unimolecular fragmentation patterns. <i>International Journal of Mass Spectrometry</i> , 2007 , 267, 139-147	1.9	12
831	C-H Bond Activation of Methane with Gaseous [(CH ₃)Pt(L)] ⁺ Complexes (L = Pyridine, Bipyridine, and Phenanthroline). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2007 , 62, 309-313	1	32
830	An experimental study of the mechanism for the combined CO and CH bond activation of dimethylether by bare Fe ⁺ ions. <i>International Journal of Mass Spectrometry</i> , 2006 , 255-256, 239-243	1.9	15
829	Electrospray ionization as a convenient new method for the generation of catalytically active iron-oxide ions in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2006 , 254, 197-201	1.9	61
828	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, 2454-64	4.8	82
827	Competition of proton and electron transfers in gas-phase reactions of hydrogen-containing dications CHX ₂ ⁺ (X = F, Cl, Br, I) with atoms, nonpolar and polar molecules. <i>Chemistry - A European Journal</i> , 2006 , 12, 2465-71	4.8	41
826	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, 4677-81	16.4	108
825	Thermal activation of methane by tetranuclear [V ₄ O ₁₀] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4681-5	16.4	227
824	Solvent and Ligand Effects on the Structures of Iron Halide Cations in the Gas Phase. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4546-4552	2.3	47
823	HF-CH: Ein neuer, stabiler Ion-Dipol-Komplex. <i>Angewandte Chemie</i> , 2006 , 94, 547-547	3.6	9
822	Entstehung des Phenylkations durch dissoziative Ionisierung eines Dieninylbromids in der Gasphase. <i>Angewandte Chemie</i> , 2006 , 95, 806-807	3.6	1

821	Gasphasenoxidation von Propan und 1-Buten durch [V3O7] ⁺ : Wechselspiel von Experiment und Theorie. <i>Angewandte Chemie</i> , 2006 , 118, 4793-4797	3.6	29
820	Raumtemperaturaktivierung von Methan durch das vierkernige Oxidclusterion [V4O10] ⁺ . <i>Angewandte Chemie</i> , 2006 , 118, 4797-4801	3.6	86
819	Intrinsic Mechanisms of Oxidation Reactions as Revealed by Gas-Phase Experiments 2006 , 1-15		44
818	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, 6235-45	5.1	72
817	Doubly protonated benzene in the gas phase. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 1650-7	2.8	11
816	Structural aspects of long-lived C ₇ H ₈ (2 ⁺) dications generated by the electron ionization of toluene. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 2970-8	2.8	33
815	Reactivity of the CHBr ₂ ⁺ dication toward molecular hydrogen. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6447-53	2.8	18
814	Dissociation routes of protonated toluene probed by infrared spectroscopy in the gas phase. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8346-53	2.8	58
813	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, 2647-54	2.8	102
812	Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS ⁺ , ZrS ⁺ , and NbS ⁺ . <i>International Journal of Mass Spectrometry</i> , 2006 , 249-250, 263-278	1.9	37
811	Activation of methane by gaseous platinum(II) ions PtX ⁺ (X = H, Cl, Br, CHO). <i>Canadian Journal of Chemistry</i> , 2005 , 83, 1936-1940	0.9	80
810	Consecutive fragmentations of the cubane-like zinc cluster [CH ₃ Zn(O-i-C ₃ H ₇) ₄] upon electron ionization. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1049-53	3.6	42
809	Neutral cumulene oxide CCCCCO is accessible by one-electron oxidation of [CCCCO] ^{-*} in the gas phase. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 901-10	3.9	3
808	Competitive complexation of gaseous Mn(II) by 1,10-phenanthroline, 2,2'-bipyridine, and 4,5-diazafluorene. <i>Inorganic Chemistry</i> , 2005 , 44, 4969-78	5.1	32
807	Connectivity and Reactivity of Gaseous CrC ₃ H ₄ O ⁺ . <i>Organometallics</i> , 2005 , 24, 2214-2223	3.8	9
806	Diastereoselectivity in the McLafferty rearrangement of photoionized 3-methyl valeramide. <i>Journal of Organic Chemistry</i> , 2005 , 70, 1073-6	4.2	17
805	A gas-phase study of the gold-catalyzed coupling of alkynes and alcohols. <i>Inorganica Chimica Acta</i> , 2005 , 358, 4287-4292	2.7	64
804	Competitive reactions and diastereoselective CH bond activation in the McLafferty rearrangement of photoionized 3-methyl valeramide. <i>International Journal of Mass Spectrometry</i> , 2005 , 240, 121-137	1.9	7

803	Formation, Structure, and Reactivity of Gaseous Ni ₂ O ₂ ⁺ . <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2464-2469	2.3	18
802	Fragmentation of Alkoxo(catecholato)vanadium(V) Complexes[(C ₆ H ₄ O ₂)V(OR ₁)(OR ₂)] ⁺ in the Gas Phase. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2919-2923	2.3	11
801	Unimolecular Fragmentation of CH ₃ NH ₂ : Towards a Mechanistic Description of HCN Formation. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 3304-3313	3.2	9
800	Gas-Phase Reactions of Homo- and Heteronuclear Clusters MM ⁺ (M, M?=Fe, Co, Ni) with Linear Alkanenitriles. <i>Helvetica Chimica Acta</i> , 2005 , 88, 1405-1420	2	24
799	Stability of gaseous thallium monofluoride as TlF ₀ , TlF ⁺ , and TlF ₂ ⁺ . <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4254-7	16.4	3
798	Gas-phase catalysis by atomic and cluster metal ions: the ultimate single-site catalysts. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2336-54	16.4	720
797	Generation of the elusive meta-benzoquinone in the gas phase. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3092-6	16.4	22
796	Stabilität von gasförmigem Thalliummonofluorid: TlF ₀ , TlF ⁺ und TlF ₂ ⁺ . <i>Angewandte Chemie</i> , 2005 , 117, 4326-4330	3.6	1
795	Gasphasenkatalyse mit atomaren und Cluster-Metall-Ionen: ultimative Single-Site-Katalysatoren. <i>Angewandte Chemie</i> , 2005 , 117, 2388-2406	3.6	166
794	Generation of the Elusive meta-Benzoquinone in the Gas Phase. <i>Angewandte Chemie</i> , 2005 , 117, 3152-3156	3.6	4
793	Coordination of iron(III) cations to beta-keto esters as studied by electrospray mass spectrometry: implications for iron-catalyzed Michael addition reactions. <i>Chemistry - A European Journal</i> , 2005 , 11, 619-27	4.8	78
792	Decomposition of neutral, singly and doubly protonated benzoquinone in the gas phase. <i>Chemistry - A European Journal</i> , 2005 , 11, 628-38	4.8	21
791	Gas-phase dehydrogenation of methanol with mononuclear vanadium-oxide cations. <i>Chemistry - A European Journal</i> , 2005 , 11, 5975-87	4.8	56
790	High-electron-density C ₆ H ₆ units: stable ten-pi-electron benzene complexes. <i>Chemistry - A European Journal</i> , 2005 , 11, 3058-63	4.8	16
789	Decomposition of Neutral, Singly and Doubly Protonated Benzoquinone in the Gas Phase. <i>Chemistry - A European Journal</i> , 2005 , 11, 3795-3795	4.8	4
788	Gas-Phase Catalysis by Atomic and Cluster Metal Ions: The Ultimate Single-Site Catalysts. <i>ChemInform</i> , 2005 , 36, no		2
787	The formation of neutral CCCO ₂ H and HCCCO ₂ molecules from anionic precursors in the gas phase: a joint experimental and theoretical study. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 3705-12	4.2	2
786	Revision of the second ionization energy of toluene. <i>Journal of Chemical Physics</i> , 2005 , 122, 094306	3.9	43

785	Complexation of nickel(II) by ethylenediamine investigated by means of electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2004 , 235, 33-42	1.9	47
784	Coupling of methane and ammonia by dinuclear bimetallic platinum-coinage-metal cations PtM ⁺ . <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 121-4	16.4	60
783	Methan-Ammoniak-Kupplung durch zweikernige bimetallische Platin-M�zmetall-Kationen, PtM ⁺ . <i>Angewandte Chemie</i> , 2004 , 116, 124-127	3.6	27
782	Formation and Reactivity of Gaseous Iron-Sulfur Clusters. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 44-50	2.3	18
781	Computational investigation of hydrogen abstraction from 2-aminoethanol by the 1,5-dideoxyribose-5-yl radical: a model study of a reaction occurring in the active site of ethanolamine ammonia lyase. <i>Chemistry - A European Journal</i> , 2004 , 10, 2781-8	4.8	8
780	Reactions of mass-selected Fe ⁿ⁺ cluster ions (n=1B) with dimethyl carbonate. <i>Inorganica Chimica Acta</i> , 2004 , 357, 1881-1885	2.7	3
779	Diastereo- and enantioselective bond activation of alkanols by gaseous metal ions. <i>International Journal of Mass Spectrometry</i> , 2004 , 231, 139-146	1.9	19
778	Secondary kinetic isotope effects in cation-bound dimers of acetone (C ₃ H ₆ O) ₂ M(C ₃ D ₆ O) ⁺ with M = H, Li, Na, K, Rb, Ag, and Cs. <i>International Journal of Mass Spectrometry</i> , 2004 , 233, 103-109	1.9	27
777	On the spin-forbiddenness 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	1.9	288
776	CH- and NH-activation by gaseous Rh ₂ ⁺ and PtRh ⁺ cluster ions. <i>International Journal of Mass Spectrometry</i> , 2004 , 237, 19-23	1.9	46
775	Generation of Neutral CCCCBO in the Gas Phase from [CCCCBO] ⁻ and Rearrangement of Energized CCCCBO to OCCCCB: A Joint Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2426-2430	2.8	12
774	Protonated Benzene: A Case for Structural Memory Effects? <i>Journal of Physical Chemistry A</i> , 2004 , 108, 9931-9937	2.8	32
773	CN Coupling of Methane and Ammonia by Bimetallic Platinum-Gold Cluster Cations. <i>Organometallics</i> , 2004 , 23, 1132-1139	3.8	93
772	Substituent Effects in the Unimolecular Fragmentation of Anisole Dication Derivatives <i>Journal of Physical Chemistry A</i> , 2004 , 108, 5060-5068	2.8	15
771	Radical-Like Activation of Alkanes by the Ligated Copper Oxide Cation (Phenanthroline)CuO ⁺ <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14407-14416	3.4	129
770	Ion chemistry of OV(OCH ₃) ₃ in the gas phase: molecular cations and anions and their primary fragmentations. <i>Inorganic Chemistry</i> , 2004 , 43, 1976-85	5.1	30
769	Potential role of methyl-radical adducts with carbon dioxide in the Martian atmosphere. <i>European Journal of Mass Spectrometry</i> , 2003 , 9, 287-94	1.1	7
768	Unimolecular Rearrangements of Transient Carboxy Radicals and Cations. <i>Australian Journal of Chemistry</i> , 2003 , 56, 443	1.2	18

767	Alkane Oxidation by VO ₂ ⁺ in the Gas Phase: A Unique Dependence of Reactivity on the Chain Length. <i>Organometallics</i> , 2003 , 22, 3933-3943	3.8	63
766	Additivity effects in the reactivities of bimetallic cluster ions Pt _m Au _n ⁺ . <i>ChemPhysChem</i> , 2003 , 4, 1233-7	3.2	110
765	Interactions of Atomic Iron Cation with Pyridine and Benzene: A Theoretical Study on an Unresolved Controversy of Bond Energies and Electronic Ground-State Structures. <i>Helvetica Chimica Acta</i> , 2003 , 86, 1008-1025	2	13
764	Relativistische Effekte in der Gasphasenchemie von Ionen aus experimenteller Sicht. <i>Angewandte Chemie</i> , 2003 , 115, 4580-4593	3.6	86
763	Eine Gasphasenreaktion als funktionales Modell der Aktivierung von Kohlendioxid durch die Carboanhydrase. <i>Angewandte Chemie</i> , 2003 , 115, 5241-5244	3.6	41
762	Car-Parrinello molecular dynamics study of the rearrangement of the valeramide radical cation. <i>Chemistry - A European Journal</i> , 2003 , 9, 4396-404	4.8	8
761	Relativistic effects in gas-phase ion chemistry: an experimentalist's view. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4442-54	16.4	300
760	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, 5087-90	16.4	87
759	Gold dichloride and gold dibromide with gold atoms in three different oxidation states. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 311-4	16.4	54
758	Does ionized diacetylene have a positive proton affinity?. <i>International Journal of Mass Spectrometry</i> , 2003 , 230, 113-121	1.9	21
757	State selectivity in collisional electron-transfer processes involving the NO molecule. <i>International Journal of Mass Spectrometry</i> , 2003 , 223-224, 169-177	1.9	1
756	Thermochemistry of neutral and cationic iron hydroxides Fe(OH) _n ^{0/+} (n=1, 2) in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2003 , 227, 121-134	1.9	28
755	Structure, thermochemistry, and reactivity of MS _n ⁺ cations (M=V, Mo; n=1B) in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2003 , 228, 439-456	1.9	29
754	On gaseous C ₄ H ₆ O ₂ compounds in the atmosphere: new insights from collision experiments of the protonated molecules in the laboratory and on aircraft. <i>International Journal of Mass Spectrometry</i> , 2003 , 228, 35-47	1.9	2
753	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. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3676-7	16.4	103
752	Reactivity of Small Cationic Platinum Clusters□ <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4999-5006	2.8	108
751	Fe ⁺ -Mediated Interconversion of n- and i-C ₃ H ₇ OH Preceding Their Gas-Phase Dehydrations: Experimental and Computational Evidence for Memory Effects and Inherent Asymmetry of Constitutionally Equivalent Methyl Groups□□ <i>Organometallics</i> , 2003 , 22, 693-707	3.8	35
750	Fe ⁺ -Mediated Interconversion of n- and i-C ₃ H ₇ OH Preceding Their Gas-Phase Dehydrations: Experimental and Computational Evidence for Memory Effects and Inherent Asymmetry of Constitutionally Equivalent Methyl Groups.. <i>Organometallics</i> , 2003 , 22, 1348-1348	3.8	4

749	Gas-Phase Solvation Behavior of Ni(II) in Water/N,N-Dimethylformamide Mixtures. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9575-9581	2.8	40
748	C-F Bond Activation in Fluorinated Carbonyl Compounds by Chromium Monocations in the Gas Phase. <i>Organometallics</i> , 2003 , 22, 218-225	3.8	15
747	Reactions of Platinum Carbene Clusters $Pt_nCH_2^+(n = 1-5)$ with O ₂ , CH ₄ , NH ₃ , and H ₂ O: Coupling Processes versus Carbide Formation. <i>Organometallics</i> , 2003 , 22, 3809-3819	3.8	61
746	Oxidative Degradation of Small Cationic Vanadium Clusters by Molecular Oxygen: On the Way from V ⁿ⁺ (n = 2-5) to VO ^{m+} (m = 1, 2). <i>Journal of Physical Chemistry A</i> , 2003 , 107, 2855-2859	2.8	75
745	Carbon-fluorine bond activation: Looking at and learning from unsolvated systems. <i>Chemical Communications</i> , 2003 , 1321-1326	5.8	128
744	The Formation of CCBO and [CCBO] ⁺ from [CCBO] ⁻ in the Gas Phase: A Joint Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1181-1187	2.8	14
743	Computational study on mechanistic details of the aminoethanol rearrangement catalyzed by the vitamin B12-dependent ethanolamine ammonia lyase: His and Asp/Glu acting simultaneously as catalytic auxiliaries. <i>Journal of Organic Chemistry</i> , 2003 , 68, 6967-83	4.2	18
742	Diastereoselective Effects in Gas-Phase Ion Chemistry. <i>Topics in Current Chemistry</i> , 2003 , 133-152		19
741	Hydrolytische Aktivierung von C-F-Bindungen in der Gasphase durch intrinsisch unreaktive Chrom-Kationen. <i>Angewandte Chemie</i> , 2002 , 114, 2648-2651	3.6	5
740	Bestimmung der Aktivierungsenergie durch Kombination von Photoionisierung mit Reaktivitätsassays: Keto/Enol-Umlagerung des Radikalkations von Acetamid. <i>Angewandte Chemie</i> , 2002 , 114, 2867-2870	3.6	8
739	Reactions of Group 8, 9, and 10 monocations (Fe ⁺ , Co ⁺ , Ni ⁺ , Ru ⁺ , Rh ⁺ , Pd ⁺ , Os ⁺ , Ir ⁺ , Pt ⁺) with phosphane in the gas phase. <i>Chemistry - A European Journal</i> , 2002 , 8, 2057-66	4.8	3
738	Hydrolytic activation of C-F bonds in the gas phase by intrinsically unreactive chromium cations. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2538-41	16.4	16
737	Barrier height titration by tunable photoionization combined with chemical monitoring: unimolecular keto/enol tautomerization of the acetamide cation radical. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2748-51	16.4	30
736	Gas-Phase Reactions of Chromium and Chromium Fluoride Cations CrF _n ⁺ (n = 0-4) with Water and Nitrous Oxide. <i>European Journal of Inorganic Chemistry</i> , 2002 , 2002, 1622-1634	2.3	7
735	Energetics of the ligated vanadium dications VO ₂ ⁺ , VOH ₂ ⁺ , and [V,O,H ₂] ₂ ⁺ . <i>ChemPhysChem</i> , 2002 , 3, 584-91	3.2	35
734	Two-state reactivity mechanisms of hydroxylation and epoxidation by cytochrome P-450 revealed by theory. <i>Current Opinion in Chemical Biology</i> , 2002 , 6, 556-67	9.7	299
733	Dissociation behavior of ionized valeramide. <i>International Journal of Mass Spectrometry</i> , 2002 , 214, 155-170		12
732	Dissociation behavior of ionized valeramide: Part II. Theoretical exploration of the potential-energy surface. <i>International Journal of Mass Spectrometry</i> , 2002 , 214, 129-154	1.9	14

731	Dissociation behavior of ionized valeramide. <i>International Journal of Mass Spectrometry</i> , 2002 , 214, 105-128	1.9	37
730	Regio- and diastereoselective C-H bond activation of valeramide and 3-methyl valeramide by bare Fe ⁺ ions. <i>International Journal of Mass Spectrometry</i> , 2002 , 217, 169-177	1.9	16
729	Dissociation behavior of Cu(urea) ⁺ complexes generated by electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2002 , 219, 729-738	1.9	145
728	Experimental and theoretical studies of diatomic gold halides. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 485-92	3.5	64
727	Thermochemistry of small cationic iron-sulfur clusters. <i>Journal of Chemical Physics</i> , 2002 , 117, 10039-10056	5.6	25
726	Bond dissociation energies and structures of CuNO(+) and Cu(NO)(2)(+). <i>Inorganic Chemistry</i> , 2002 , 41, 5882-90	5.1	43
725	Guided Ion Beam Studies of the Reactions of Ni ⁺ , Cu ⁺ , and Zn ⁺ with CS ₂ and COS. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9788-9797	2.8	52
724	Computational exploration of rearrangements related to the vitamin B12-dependent ethanolamine ammonia lyase catalyzed transformation. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8974-83	16.4	30
723	The formation of neutral CCC and its radical cation from the CCC radical anion in the gas phase. A joint experimental and theoretical study. <i>Perkin Transactions II RSC</i> , 2002 , 1647-1652		7
722	Structure and reactivity of the prototype iron-oxide cluster Fe ₂ O ₂ ⁺ . <i>International Journal of Mass Spectrometry</i> , 2001 , 204, 233-245	1.9	35
721	Guided ion beam studies of the state-specific reactions of Cr ⁺ and Mn ⁺ with CS ₂ and COS. <i>International Journal of Mass Spectrometry</i> , 2001 , 210-211, 283-301	1.9	40
720	Pyrimidine-ylidenes produced using neutralization-reionization mass spectrometry and probed by density functional methods. <i>International Journal of Mass Spectrometry</i> , 2001 , 210-211, 43-57	1.9	19
719	Competitive ligand losses in mono- and dicationic L ₂ FeL ^{+/2+} complexes (L ₂ , L = arene): structural insight and charge-state dependent reversals of branching ratios. <i>International Journal of Mass Spectrometry</i> , 2001 , 212, 327-336	1.9	9
718	Single and Double Ionization of Corannulene and Coronene. <i>Helvetica Chimica Acta</i> , 2001 , 84, 1625-1634	2	49
717	Inherent Asymmetry of Constitutionally Equivalent Methyl Groups in the H/D Equilibration of n- and i-C ₃ H ₇ Fe(OH) ⁺ Complexes. <i>Angewandte Chemie</i> , 2001 , 113, 2780-2782	3.6	6
716	The importance of dihydrogen complexes H _n Ge(H ₂) ⁺ (n=0,1) to the chemistry of cationic germanium hydrides: advanced theoretical and mass spectrometric analysis. <i>Chemistry - A European Journal</i> , 2001 , 7, 151-60	4.8	16
715	Inherent Asymmetry of Constitutionally Equivalent Methyl Groups in the H/D Equilibration of n- and i-C ₃ H ₇ Fe(OH) Complexes. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2708-2710	16.4	8
714	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	2.5	87

713	The electronic structure of CuCl ₂ and CuBr ₂ from anion photoelectron spectroscopy and ab initio calculations. <i>Journal of Chemical Physics</i> , 2001 , 114, 7388-7395	3.9	51
712	Guided Ion Beam Studies of the Reactions of Fe ⁺ and Co ⁺ with CS ₂ and COS. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8456-8464	2.8	46
711	Platinum dioxide cation: easy to generate experimentally but difficult to describe theoretically. <i>Journal of the American Chemical Society</i> , 2001 , 123, 142-7	16.4	122
710	Gas-phase properties and fragmentation behavior of cationic, dinuclear iron chloride clusters Fe ₂ Cl _n (⁺) (n = 1-6). <i>Inorganic Chemistry</i> , 2001 , 40, 3161-9	5.1	16
709	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	2.8	70
708	Methane to Methanethiol Conversion by FeS ⁺ . A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 2005-2014	2.8	26
707	11 The binding in neutral and cationic 3d and 4d transition-metal monoxides and-sulfides. <i>Advances in Metal and Semiconductor Clusters</i> , 2001 , 347-395		37
706	Nachweis eines langlebigen protonierten Metallkations: Bildung von GeH ₂ ⁺ durch Hochenergiest. <i>Angewandte Chemie</i> , 2000 , 112, 1507-1510	3.6	1
705	A mechanistic study of the FeO ⁺ -mediated decomposition pathways of phenol, anisol, and their thio analogues. <i>Chemistry - A European Journal</i> , 2000 , 6, 91-104	4.8	18
704	. <i>Chemistry - A European Journal</i> , 2000 , 6, 1236-1242	4.8	1
703	A density-functional theory based study on the 16O/18O-exchange reactions of the prototype iron-oxygen compounds FeO ⁺ and FeOH ⁺ with H ₂ (18)O in the gas phase. <i>Chemistry - A European Journal</i> , 2000 , 6, 1789-96	4.8	23
702	Towards Detection of a Long-lived Protonated Metal Cation: Generation of GeH(2 ⁺) Using High-Energy Collisions This research was supported by the Deutsche Forschungsgemeinschaft, the Volkswagen-Stiftung, and the Fonds der Chemischen Industrie. The Konrad-Zuse-Zentrum, Berlin, is acknowledged for providing the time for computer time. D. Schlegel is grateful to the Deutsche Forschungsgemeinschaft for a Heisenberg Award.	16.4	8
701	Extreme Differences in the Interactions of 'Bare' Fe ⁺ and Fe ²⁺ with Hydrogen Peroxide: Fenton Chemistry in the Gas Phase. <i>Helvetica Chimica Acta</i> , 2000 , 83, 827-835 <i>Chemie - International Edition</i> , 2000 , 39, 1443-1447	2	15
700	Ion chemistry of anti-o,o dibenzene. <i>Chemistry - A European Journal</i> , 2000 , 6, 4422-30	4.8	10
699	Collisional activation, neutralisation/ionisation, and computational studies of [Ge,C,Hn]O ⁺ , n = 2,3. <i>International Journal of Mass Spectrometry</i> , 2000 , 201, 23-40	1.9	5
698	Theoretical and experimental studies on the activation of ethylsilane by bare Co ⁺ cations. <i>International Journal of Mass Spectrometry</i> , 2000 , 199, 107-125	1.9	7
697	Generation and characterization of ionic and neutral (CH ₃ OBH) ⁺ / [•] and (CH ₃ BOH) ⁺ / [•] in the gas phase by tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2000 , 202, 315-322	1.9	5
696	How does Fe ⁺ activate ethylsilane? A theoretical study in comparison with experiments. <i>International Journal of Mass Spectrometry</i> , 2000 , 202, 363-379	1.9	8

695	Kinetics of radiative/termolecular associations in the low pressure regime: reactions of bare Au^+ with benzene. <i>International Journal of Mass Spectrometry</i> , 2000 , 203, 155-163	1.9	31
694	Inner-sphere electron transfer in metal-cation chemistry. <i>International Journal of Mass Spectrometry</i> , 2000 , 200, 163-173	1.9	13
693	Identifying ylide ions and methyl migrations in the gas phase: the decarbonylation reactions of simple ionized N-heterocycles. <i>International Journal of Mass Spectrometry</i> , 2000 , 195-196, 71-83	1.9	17
692	Generation and characterization of ionic and neutral dihydroxy boron $\text{B}(\text{OH})_2^+/\text{0}$ in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2000 , 197, 105-111	1.9	10
691	SiNCO^+ and SiNCS^+ and their neutral counterparts. <i>Chemical Physics Letters</i> , 2000 , 316, 243-247	2.5	17
690	Two-state reactivity as a new concept in organometallic chemistry. <i>Accounts of Chemical Research</i> , 2000 , 33, 139-45	24.3	981
689	Characterization, Orbital Description, and Reactivity Patterns of Transition-Metal Oxo Species in the Gas Phase 2000 , 91-123		101
688	Concepts of metal-mediated methane functionalization. An intersection of experiment and theory. <i>Pure and Applied Chemistry</i> , 2000 , 72, 2319-2332	2.1	109
687	Conversion of Linear to Rhombic C_4 in the Gas Phase: A Joint Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7105-7113	16.4	43
686	Thermochemistry and Reactivity of Cationic Scandium and Titanium Sulfide in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5046-5058	2.8	76
685	Regioselective Activation of Ipso and Ortho Positions in Chlorobenzene by FeO^+ . <i>Journal of the American Chemical Society</i> , 2000 , 122, 699-704	16.4	11
684	Gas-phase reactions of chromium and chromium fluoride cations CrF_n^+ ($n = 0-4$) with phosphane. <i>Inorganic Chemistry</i> , 2000 , 39, 5586-90	5.1	9
683	. <i>Organometallics</i> , 2000 , 19, 2608-2615	3.8	49
682	LaO^+ : A Diatomic Cation with a Sizable Proton Affinity upon Generation of the LaOH_2^+ Dication. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11257-11260	2.8	15
681	Second Ionization Energies of Gaseous Iron Oxides and Hydroxides: The $\text{FeO}_m\text{H}_n^{2+}$ Dications ($m = 1, 2$; $n \leq 4$) <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5101-5110	2.8	31
680	PCCP does exist. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 2245-2250	3.6	12
679	Syntheses of NCN and NC_3N from Ionic Precursors in the Gas Phase and an Unusual Rearrangement of Neutral NC_3N : A Joint Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11248-11256	2.8	30
678	Dissociation Patterns of Small FeO_n^+ ($m = 1-4$, $n \leq 6$) Cluster Cations Formed Upon Chemical Ionization of $\text{Fe}(\text{CO})_5/\text{O}_2$ Mixtures 2000 , 2000, 1171		1

677	Dissociation Patterns of Small FemOn+ (m = 1-6, n = 6) Cluster Cations Formed Upon Chemical Ionization of Fe(CO)5/O2 Mixtures. <i>European Journal of Inorganic Chemistry</i> , 2000 , 2000, 1171-1175	2.3	34
676	Kinetic-energy dependence of competitive spin-allowed and spin-forbidden reactions: V++CS2. <i>Journal of Chemical Physics</i> , 1999 , 110, 7858-7870	3.9	108
675	On the formation of the carbon dioxide anion radical CO2 ⁻ in the gas phase. <i>International Journal of Mass Spectrometry</i> , 1999 , 185-187, 25-35	1.9	66
674	Pyrazine diradicals, carbenes, ylides, and distonic ions probed by theory and experiment. <i>International Journal of Mass Spectrometry</i> , 1999 , 185-187, 925-933	1.9	20
673	Mass spectrometric studies of the oxocarbons CnOn (n = 3-8). <i>International Journal of Mass Spectrometry</i> , 1999 , 188, 17-25	1.9	22
672	Oxidation properties of the early transition-metal dioxide cations MO2+ (M = Ti, V, Zr, Nb) in the gas-phase. <i>International Journal of Mass Spectrometry</i> , 1999 , 182-183, 85-97	1.9	114
671	Redox properties of charged and neutral iron chlorides FeClmn (m = 1-3; n = 0, +1, and +2). <i>International Journal of Mass Spectrometry</i> , 1999 , 192, 125-139	1.9	14
670	Charge inversion as a structural probe for C6H5+ and C6H6+ ⁺ cations. <i>Journal of the American Society for Mass Spectrometry</i> , 1999 , 10, 878-882	3.5	14
669	The crucial role of CO as a ligand in the formation of long-lived neutral iron complexes in the gas phase. <i>Chemical Physics Letters</i> , 1999 , 309, 407-413	2.5	11
668	HCN Synthesis from Methane and Ammonia: Mechanisms of Pt+-Mediated C≡N Coupling. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10614-10625	16.4	98
667	Single- and Two-State Reactivity in the Gas-Phase C≡N Bond Activation of Norbornane by 'Bare' FeO+. <i>Helvetica Chimica Acta</i> , 1999 , 82, 1784-1797	2	51
666	Combined Quantum Chemical and Mass Spectrometry Study of [Ge,C,H]+ and Its Neutral Counterpart. <i>European Journal of Inorganic Chemistry</i> , 1999 , 1999, 1203-1210	2.3	9
665	UF3+ ⁺ ein thermochemisch stabiles binäres Triktion mit kovalenter Bindung. <i>Angewandte Chemie</i> , 1999 , 111, 206-209	3.6	7
664	Nachweis von HCSiF und HCSiCl als die ersten Moleküle mit formalen C≡Si-Bindungen. <i>Angewandte Chemie</i> , 1999 , 111, 343-347	3.6	19
663	Experimenteller Nachweis von neutralem P6: ein neues Allotrop des Phosphors. <i>Angewandte Chemie</i> , 1999 , 111, 3723-3726	3.6	5
662	Reactions of Bare FeO+ with Element Hydrides EHn (E=C, N, O, F, Si, P, S, Cl). <i>Chemistry - A European Journal</i> , 1999 , 5, 1176-1185	4.8	60
661	UF3+ ⁺ Thermochemically Stable Diatomic Trication with a Covalent Bond. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 137-140	16.4	23
660	HCSiF and HCSiCl: The First Detection of Molecules with Formal C≡Si Triple Bonds. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 331-335	16.4	68

659	Experimental Evidence for the Existence of Neutral P6: A New Allotrope of Phosphorus. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3513-3515	16.4	15
658	Revisiting the Mechanism of the Unimolecular Fragmentation of Protonated Fluorobenzene. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 4609-4620	2.8	20
657	Oxidative dealkylation of aromatic amines by "bare" FeO ⁺ in the gas phase. <i>Canadian Journal of Chemistry</i> , 1999 , 77, 774-780	0.9	15
656	Generation, Stability, and Reactivity of Small, Multiply Charged Ions in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 7385-7394	2.8	274
655	Hydrodesulfurization of FeS ⁺ : Predominance of Kinetic over Thermodynamic Control. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5925-5934	2.8	25
654	Platinum-Mediated Coupling of Methane and Small Nucleophiles (H ₂ O, PH ₃ , H ₂ S, CH ₃ NH ₂) as a Model for C _N , C _D , C _B , and C _B Bond Formation in the Gas Phase. <i>Organometallics</i> , 1999 , 18, 1939-1948	3.8	34
653	Structures of the C ₈ H ₆ ⁺ Cation Formed upon Loss of Acetylene from Ionized Naphthalene. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 4174-4181	2.8	18
652	On the Structural Dichotomy of Cationic, Anionic, and Neutral FeS(2). <i>Inorganic Chemistry</i> , 1999 , 38, 3474-3480	5.1	51
651	Generation of mixed iron chalcogenide clusters MFeX _n ⁺ (M = V, Fe; X = O, S; n=2,3) in the gas phase. <i>Inorganica Chimica Acta</i> , 1998 , 273, 111-115	2.7	12
650	Iron-Mediated Amination of Hydrocarbons in the Gas Phase. <i>Helvetica Chimica Acta</i> , 1998 , 81, 2348-2369	2	29
649	Generation of 1,3-Dithia-, 1-Selena-3-thia-, and 1,3-Diselena-2-tellurole by Neutralization-Reionization Mass Spectrometry?. <i>European Journal of Inorganic Chemistry</i> , 1998 , 1998, 983-987	2.3	7
648	Mass-Spectrometric Experiments together with Electronic Structure Calculations Support the Existence of the Elusive Ammonia Oxide Molecule and Its Radical Cation. <i>European Journal of Inorganic Chemistry</i> , 1998 , 1998, 1529-1538	2.3	20
647	. <i>European Journal of Organic Chemistry</i> , 1998 , 1998, 565-571	3.2	25
646	A Combined Neutralization-Reionization Mass Spectrometric and Theoretical Study of Oxyallyl and Other Elusive [C ₃ , H ₄ , O] Neutrals. <i>European Journal of Organic Chemistry</i> , 1998 , 1998, 987-1009	3.2	32
645	Ein Gasphasenmodell für die Pt ⁺ -katalysierte Kupplung von Methan und Ammoniak. <i>Angewandte Chemie</i> , 1998 , 110, 858-861	3.6	31
644	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	4.8	303
643	Ethylenedione: An Intrinsically Short-Lived Molecule. <i>Chemistry - A European Journal</i> , 1998 , 4, 2550-2557	4.8	104
642	A Gas-Phase Model for the Pt ⁺ -Catalyzed Coupling of Methane and Ammonia. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 829-832	16.4	64

- 641 The singlet and triplet states of phenyl cation. A hybrid approach for locating minimum energy crossing points between non-interacting potential energy surfaces. *Theoretical Chemistry Accounts*, **1998**, 99, 95-99 1.9 693
- 640 Generation of neutral and cationic hydrogen shift isomers of pyridine: a combined experimental and computational investigation. *International Journal of Mass Spectrometry*, **1998**, 179-180, 7-14 1.9 52
- 639 Mass spectrometry as a tool to probe the gas-phase reactivity of neutral molecules. *International Journal of Mass Spectrometry and Ion Processes*, **1998**, 172, 181-208 80
- 638 Reappraisal of the spin-forbidden unimolecular decay of the methoxy cation. *Chemical Communications*, **1998**, 531-533 5.8 27
- 637 Mass spectrometric approaches to the reactivity of transient neutrals. *Chemical Society Reviews*, **1998**, 27, 91 58.5 166
- 636 Ligand-Induced Selectivity Switch: The Gas-Phase Reactions of Bare and Ligated Iron(I) and Cobalt(I) Cations with n-Propyltrimethylsilane. *Organometallics*, **1998**, 17, 2271-2277 3.8 6
- 635 Experimental and Theoretical Studies of Vanadium Sulfide Cation. *Journal of Physical Chemistry A*, **1998**, 102, 10060-10073 2.8 72
- 634 Gas-Phase Syntheses of Three Isomeric C₅H₂ Radical Anions and Their Elusive Neutrals. A Joint Experimental and Theoretical Study. *Journal of Physical Chemistry A*, **1998**, 102, 9949-9956 2.8 31
- 633 Long-Lived, Multiply Charged Diatomic TiF_n⁺ Ions (n = 1B). *Journal of Physical Chemistry A*, **1998**, 102, 3639-3642 2.8 29
- 632 Ether Oxides: A New Class of Stable Ylides? A Theoretical Study of Methanol Oxide and Dimethyl Ether Oxide. *Journal of Physical Chemistry A*, **1998**, 102, 1021-1035 2.8 21
- 631 Cationic Gold(I) Complexes of Xenon and of Ligands Containing the Donor Atoms Oxygen, Nitrogen, Phosphorus, and Sulfur. *Inorganic Chemistry*, **1998**, 37, 624-632 5.1 228
- 630 Experimental and computational study of neutral xenon halides (XeX) in the gas phase for X=F, Cl, Br, and I. *Journal of Chemical Physics*, **1998**, 108, 8446-8455 3.9 58
- 629 Generation and Reactivity of Chromium Fluoride Cations (CrF_n⁺, n = 0-4) in the Gas Phase. *Collection of Czechoslovak Chemical Communications*, **1998**, 63, 1498-1512 24
- 628 Comparative Ab initio and Hybrid DFT Studies Relevant to an Experimental Investigation of Neutral and Cationic [Si, P, H₂] Isomers. *Bulletin of the Chemical Society of Japan*, **1997**, 70, 777-787 5.1 8
- 627 Oxo ligand as a reactivity switch in gas-phase ion chemistry of the lanthanides. *Journal of the Chemical Society Perkin Transactions II*, **1997**, 2283-2292 22
- 626 Covalent Assistance in Metal-Mediated [4 + 2] Cycloadditions of Butadiene and Acetylene in the Gas Phase. *Organometallics*, **1997**, 16, 986-994 3.8 25
- 625 Catalytic Benzene Formation in the Gas-Phase Reactions of MC₄H₄⁺ (M = Ru, Rh) with C₂H₂. *Organometallics*, **1997**, 16, 461-466 3.8 42
- 624 Regiospecific and Diastereoselective C_H and C_Bi Bond Activation of β Silyl-Substituted Alkane Nitriles by Bare [Co⁺ Cations in the Gas Phase. *Journal of the American Chemical Society*, **1997**, 119, 2273-2279 16.4 20

623	Pt ⁺ -Catalyzed Oxidation of Methane: Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 1567-1579	2.8	143
622	Synergy of Theory and Experiment in the Remote Functionalization of Aliphatic Nitriles by Bare Fe(I) and Co(I) Cations in the Gas Phase <i>Organometallics</i> , 1997 , 16, 3135-3147	3.8	23
621	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	2.8	131
620	Reversible H ₂ hydrogen transfer between Fe(C ₂ H ₅) ⁺ and HFe(C ₂ H ₄) ⁺ : case of two-state reactivity?. <i>Inorganica Chimica Acta</i> , 1997 , 259, 227-235	2.7	27
619	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		274
618	The hydrogen-bridged radical cation [H ₂ O ⁺ H ⁺ O ⁺ C ⁺ OH ⁺]: A combined experimental and theoretical study of its stability and dissociation chemistry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 160, 117-135		16
617	On the cleavage of the peroxide O-O bond in methyl hydroperoxide and dimethyl peroxide upon protonation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 163, 101-119		19
616	The tropylium/benzylum ion dichotomy in the gas-phase reactions of transition metal chalcogenide cations with toluene. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 167-168, 103-115		18
615	Generation of H ₂ acetolactone and the acetoxyl diradical [H ₂ COO] in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 165-166, 71-82		38
614	Imidazol-2-ylidene: Generation of a Missing Carbene and Its Dication by Neutralization/Reionization and Charge-Stripping Mass Spectrometry. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1478-1481		56
613	Imidazol-2-yliden: Herstellung des Carbens und seines Dikations durch Neutralisations-Reionisations- und Charge-stripping-Massenspektrometrie. <i>Angewandte Chemie</i> , 1997 , 109, 1572-1575	3.6	10
612	Substituent Effects on Fe ⁺ -Mediated [4+2] Cycloadditions in the Gas Phase. <i>Helvetica Chimica Acta</i> , 1997 , 80, 1205-1220	2	5
611	On the Oxenoid Character of Alkylperoxy Anions and Their Lithium Compounds: A Combined Mass-Spectrometric and Theoretical Investigation. <i>Chemische Berichte</i> , 1997 , 130, 1085-1097		18
610	The thiazole ylide: a frequently invoked intermediate is a stable species in the gas phase. <i>Chemistry - A European Journal</i> , 1997 , 3, 232-6	4.8	41
609	Dimethyl Peroxide Radical Cation: A New Theoretical and Experimental Approach to the C ₂ H ₆ O ₂ ⁺ Potential Energy Surface. <i>Chemistry - A European Journal</i> , 1997 , 3, 626-638	4.8	16
608	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	4.8	73
607	The Origin of the Remarkable Regioselectivity of Fe ⁺ -Mediated Dehydrogenation in Benzocycloalkenes. <i>Chemistry - A European Journal</i> , 1997 , 3, 1315-1323	4.8	4
606	A Study of the Gas-Phase Reactivity of Neutral Alkoxy Radicals by Mass Spectrometry: H ₂ Cleavages and Barton-type Hydrogen Migrations. <i>Chemistry - A European Journal</i> , 1997 , 3, 1866-1883	4.8	43

605	Electron-transfer reactivity in the activation of organic fluorides by bare metal monocations. <i>Chemical Physics Letters</i> , 1997 , 273, 164-170	2.5	23
604	Equilibrium studies of weakly bound Fe(L)+ complexes with L = Xe, CO ₂ , N ₂ and CH ₄ . <i>Chemical Physics Letters</i> , 1997 , 277, 399-405	2.5	36
603	Electron-transfer reactivity in the activation of organic fluorides by bare metal monocations. <i>Chemical Physics Letters</i> , 1997 , 278, 391-397	2.5	41
602	Electron Affinity of Hydrogen Peroxide and the [H ₂ O ₂] ⁻ Potential Energy Surface. A Comparative DFT and ab Initio Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 100-110		56
601	Ground State of Co(N ₂) ⁺ . <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6088-6092		19
600	On the Question of Stability, Conjugation, and Aromaticity in Imidazol-2-ylidenes and Their Silicon Analogs. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2023-2038	16.4	337
599	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		157
598	Sequential Iron(I)-Mediated Homologization of Olefins by Methanol and Methyl Halides in the Gas Phase. <i>Organometallics</i> , 1996 , 15, 1435-1440	3.8	21
597	Gas-Phase Reactivity of Lanthanide Cations with Fluorocarbons: C-H versus C-C and C-C Bond Activation. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9960-9965	16.4	95
596	The CeO(2)(+) Cation: Gas-Phase Reactivity and Electronic Structure. <i>Inorganic Chemistry</i> , 1996 , 35, 2463-2475	3.4	74
595	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	16.4	100
594	Chromium Dioxide Cation OCrO ⁺ in the Gas Phase: Structure, Electronic States, and the Reactivity with Hydrogen and Hydrocarbons ¹ . <i>Journal of the American Chemical Society</i> , 1996 , 118, 9941-9952	16.4	110
593	A Comparative Computational Study of Cationic Coinage Metal-Ethylene Complexes (C ₂ H ₄)M ⁺ (M = Cu, Ag, and Au). <i>The Journal of Physical Chemistry</i> , 1996 , 100, 12253-12260		184
592	Observation of the Hammick Intermediate: Reduction of the Pyridine-2-ylid Ion in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11898-11904	16.4	77
591	Theoretical and Experimental Studies on the Bond Dissociation Energies of Al(methane) ⁺ , Al(acetylene) ⁺ , Al(ethene) ⁺ , and Al(ethane) ⁺ . <i>The Journal of Physical Chemistry</i> , 1996 , 100, 8786-8790		31
590	Gas-Phase Chemistry of Hydrogen Peroxide and Alkyl Hydroperoxides with Bare First-Row Transition-Metal Cations Cr ⁺ to Co ⁺ . Generation of MO ⁺ Cations Using H ₂ O ₂ as Oxidant. <i>Organometallics</i> , 1996 , 15, 678-683	3.8	16
589	Combined quantum chemical and mass spectrometric study of [Si ₂ C ₂ H ₃ O] ⁺ isomers. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996 , 2389-2399		16
588	Bare Iron Methoxide Cation: A Simple Model To Probe the Mechanism of Hydrogen Transfer in Organometallic Compounds. <i>Journal of the American Chemical Society</i> , 1996 , 118, 5047-5055	16.4	71

- 587 Unparalleled, Enormous Metal-Carbon Bond Strength in PdCH₂I⁺. *Helvetica Chimica Acta*, **1996**, 79, 1-5 2 11
- 586 Gas-Phase Reactions of Aliphatic Alcohols with Bare FeO⁺. *Helvetica Chimica Acta*, **1996**, 79, 123-132 2 33
- 585 Theory-enforced Re-investigation of the Origin of the Large Metal-Carbon Bond Strength in PdCH₂I⁺ and its reactions with unsaturated hydrocarbons. *Helvetica Chimica Acta*, **1996**, 79, 1110-1120 2 21
- 584 Das "ackte-Uranyl(2+)-Kation UO₂²⁺. *Angewandte Chemie*, **1996**, 108, 950-952 3.6 4
- 583 Das lange nicht faBare Aceptalene Experimentelle und theoretische Belege fB seine Existenz. *Angewandte Chemie*, **1996**, 108, 1413-1416 3.6 8
- 582 Redox Properties of the Diatomic Bare Iron Chalcogenides FeO and FeS in the Gas Phase. *Chemistry - A European Journal*, **1996**, 2, 1230-1234 4.8 47
- 581 Gas-Phase Experiments Aimed at Probing the Existence of the Elusive Water Oxide Molecule. *Chemistry - A European Journal*, **1996**, 2, 1235-1242 4.8 55
- 580 Mass Spectrometric Study of [Fe,C₃H₆O]⁺ Isomers Relevant in the Gas-phase Oxidation of Hydrocarbons by Bare FeO⁺. *Chemische Berichte*, **1996**, 129, 1463-1474 26
- 579 The Bare-Uranyl(2+) Ion, UO. *Angewandte Chemie International Edition in English*, **1996**, 35, 891-894 95
- 578 The Long Elusive Aceptalene Experimental and Theoretical Evidence for its Existence. *Angewandte Chemie International Edition in English*, **1996**, 35, 1317-1319 22
- 577 Double hydrogen atom transfer in lactamide radical cations via ion-neutral complexes. *International Journal of Mass Spectrometry and Ion Processes*, **1996**, 152, 217-224 4
- 576 A neutralization-reionization mass spectrometric study of alkyl hydroperoxide cation radicals and four distinguishable [C₂H₃O₂]⁺ isomers. *International Journal of Mass Spectrometry and Ion Processes*, **1996**, 153, 173-199 97
- 575 Relativistic effects in the cationic platinum carbene PtCH₂⁺. *Journal of Chemical Physics*, **1996**, 104, 4642-4651 3.9 52
- 574 Ground-state potentials for Co⁺/rare-gas interactions. *Molecular Physics*, **1996**, 89, 473-488 1.7 10
- 573 Interference signals in Third-generation BEBE sector field mass spectrometers. *International Journal of Mass Spectrometry and Ion Processes*, **1995**, 146-147, 183-193 28
- 572 Isotope effects in radiative cooling: the Al(C₆H₆)⁺ system. *International Journal of Mass Spectrometry and Ion Processes*, **1995**, 149-150, 1-11 23
- 571 Comment on: The binding energy of Ni⁺ + N₂O. *Chemical Physics Letters*, **1995**, 247, 611-613 2.5 10
- 570 Ligand effects as probes for mechanistic aspects of remote C-H bond activation by Iron(I) cations in the gas phase. *Journal of Organometallic Chemistry*, **1995**, 504, 123-135 2.3 59

569	Hydrocarbon activation by Bare Uranium cations: formation of a cationic uranium-benzene complex from three ethylene units. <i>Journal of Organometallic Chemistry</i> , 1995 , 501, 201-209	2.3	77
568	Spectroscopic properties for the ground states of AuF, AuF ⁺ , AuF ₂ , and Au ₂ F ₂ : A pseudopotential scalar relativistic Møller-Plesset and coupled-cluster study. <i>Journal of Chemical Physics</i> , 1995 , 103, 245-252	3.9	62
567	The performance of density-functional/Hartree-Fock hybrid methods: Cationic transition-metal methyl complexes MCH ₃ (M=Sc, Ti, La, Hf, Au). <i>Journal of Chemical Physics</i> , 1995 , 102, 4931-4941	3.9	141
566	Interaction of the Fe ⁺ cation with heavy noble gas atoms. <i>Journal of Chemical Physics</i> , 1995 , 103, 4551-4561	3.9	17
565	Cyanocarbene HCCN, Isocyanocarbene HCNC, Iminovinylidene HNCC, and Their Ionic Counterparts: A Combined Experimental and Theoretical Study. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 15327-15334		28
564	Generation of the Thermodynamically Stable Dications AlF ₂ ⁺ and SiF ₂ ⁺ via Charge-Stripping Mass Spectrometry. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 16195-16198		39
563	Activation of C-C and C-H Bonds of cis- and trans-1-Acetyl-2-methylcyclopropane by Bare Metal(I) Cations in the Gas Phase: Comparative Study of the First-Row Transition-Metal Ions Cr ⁺ -Cu ⁺ . <i>Organometallics</i> , 1995 , 14, 317-326	3.8	19
562	Face selectivity of the C-H bond activation of cyclohexane by the "Bare" first-row transition-metal cations Sc ⁺ -Zn ⁺ . <i>Organometallics</i> , 1995 , 14, 4465-4470	3.8	35
561	Structure/Reactivity Relationships in the Unimolecular Gas-Phase Chemistry of Dialkyl Peroxide/Fe ⁺ Complexes. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12235-12242	16.4	7
560	Experimental and Theoretical Studies of the Gas-Phase Reactions of "Bare" Iron(I) with Tetralin. <i>Organometallics</i> , 1995 , 14, 4409-4414	3.8	8
559	Gas-Phase Reactivity of Lanthanide Cations with Hydrocarbons. <i>Organometallics</i> , 1995 , 14, 992-999	3.8	123
558	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	3.8	63
557	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	16.4	134
556	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 , C ₆ H ₆ , C ₆ F ₆). <i>Organometallics</i> , 1995 , 14, 312-316	3.8	101
555	Diastereoselective Gas-Phase Carbon-Carbon Bond Activation Mediated by "Bare" Co ⁺ Cations. <i>Journal of the American Chemical Society</i> , 1995 , 117, 8192-8196	16.4	30
554	Gas-Phase Ion Chemistry of Dimethyl Peroxide with the Bare Transition-Metal Cations Cr ⁺ , Mn ⁺ , Fe ⁺ , and Co ⁺ . <i>Journal of the American Chemical Society</i> , 1995 , 117, 7711-7718	16.4	37
553	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	16.4	136
552	Generation and Structural Characterization of the Cationic Iron-Dinitrogen Complex Fe(N ₂) ⁺ . <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11405-11411		31

551	Theoretical Study of the [Al,H,C,N] ⁺ Potential Energy Surface Combined with Experimental Investigations on Al(HCN) ⁺ . <i>The Journal of Physical Chemistry</i> , 1995 , 99, 5950-5955		16
550	Aktivierung von Fluorkohlenwasserstoffen durch Backte□und komplexierte Praseodym-Kationen in der Gasphase. <i>Angewandte Chemie</i> , 1995 , 107, 225-229	3.6	5
549	Aktivierung von C?H- und C?C-Bindungen durch Backte□bergangsmetalloxid-Kationen in der Gasphase. <i>Angewandte Chemie</i> , 1995 , 107, 2126-2150	3.6	127
548	Kupplung von Kohlendioxid und Methan durch einen Tantalkomplex in der Gasphase. <i>Angewandte Chemie</i> , 1995 , 107, 2176-2179	3.6	22
547	Mechanismus der Fe ⁺ -vermittelten C-C- und C-H-Bindungsaktivierung in Ethan aus theoretischer Sicht. <i>Angewandte Chemie</i> , 1995 , 107, 2430-2432	3.6	10
546	Zur Koordination von molekularem Sauerstoff in drei repräsentativen Bergangsmetallkationen: FeO ₂ ⁺ , CrO ₂ ⁺ und [CH ₃ Re(O ₂) ₂ O] ⁺ . <i>Angewandte Chemie</i> , 1995 , 107, 2714-2717	3.6	9
545	Catalytic gas-phase oxidation of olefins mediated by Fe(C ₆ H ₆) ⁺ and a comparison of Fe(L) ⁺ complexes (L = benzene, pyridine, naphthalene). <i>Liebigs Annalen</i> , 1995 , 1995, 429-431		20
544	NUO ⁺ , a New Species Isoelectronic to the Uranyl Dication UO. <i>Chemistry - A European Journal</i> , 1995 , 1, 7-11	4.8	67
543	Bimolecular Gas-Phase Reactions of d-Block Transition-Metal Cations With Dimethyl Peroxide: Trends Across the Periodic Table. <i>Chemistry - A European Journal</i> , 1995 , 1, 608-613	4.8	28
542	Ligand-Induced Directionality Shift in the Fe ⁺ -Mediated Dehydrogenation of 1,8-Diphenyloctane. <i>Chemische Berichte</i> , 1995 , 128, 649-650		7
541	Gas-Phase Activation of Fluorocarbons by Bare□and Coordinated Praseodymium Cations. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 213-217		38
540	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		416
539	Tantalum-Mediated Coupling of Methane and Carbon Dioxide in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2033-2035		73
538	Mechanism of the Fe ⁺ Mediated C?C and C?H Bond Activations in Ethane from a Theoretical Viewpoint. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2282-2285		40
537	Coordination of Dioxygen in Three Representative Transition Metal Cations: FeO, CrO, and [CH ₃ Re(O ₂) ₂ O] ⁺ . <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2517-2520		27
536	The gas phase nitrogen disulfide radical (SNS). <i>Chemical Physics Letters</i> , 1995 , 236, 201-205	2.5	13
535	The metal-ligand bond strengths in cationic gold(I) complexes. Application of approximate density functional theory. <i>Chemical Physics Letters</i> , 1995 , 236, 194-200	2.5	72
534	Pt ⁺ -mediated activation of methane: theory and experiment. <i>Chemical Physics Letters</i> , 1995 , 239, 75-83	2.5	101

533	An approximate method for treating spin-orbit effects in platinum. <i>Chemical Physics Letters</i> , 1995 , 245, 509-518	2.5	54
532	exo/endo-Selectivity in the Reaction of Bare $[\text{FeO}^+$ with Bicyclo[2.2.1]heptane (Norbornane). <i>Helvetica Chimica Acta</i> , 1995 , 78, 1013-1019	2	11
531	Two-State Reactivity in Organometallic Gas-Phase Ion Chemistry. <i>Helvetica Chimica Acta</i> , 1995 , 78, 1393-1407	270	
530	Intermediacy of Proton-Bound Dimers and Ion/Dipole Complexes in the Unimolecular Decompositions of Dialkyl-Peroxide Radical Cations: Evidence for a coupled proton and hydrogen-atom transfer. <i>Helvetica Chimica Acta</i> , 1995 , 78, 1999-2010	2	8
529	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. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 68-70		105
528	Structural Characterization of the Atmospherically Important Sulfur Compounds $\text{HSO}^{\cdot\text{bul}}$ and $\text{SOH}^{\cdot\text{bul}}$ by Charge Reversal and Neutralization-Reionization Mass Spectrometry. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 2015-2017		22
527	Two isomers of SF_6 and SF_6^+ : Structures and energetics. <i>Journal of Chemical Physics</i> , 1994 , 100, 1759-1760	15	
526	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	3.9	69
525	Collisional cooling effects on the charge reversal and neutralization-reionization mass spectra of the negative cluster ion of sulfur dioxide (SO_2^-). <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 130, 127-131		12
524	Fe(II)-Mediated Regio- and Stereoselective C-C/C-H Bond Activation of Internal Methylene Groups of D_2 -Diphenylalkanes. <i>Chemische Berichte</i> , 1994 , 127, 261-265		12
523	Distinction of Fe^+NCH and Fe^+CNH Complexes by Gas-Phase Ion-Molecule Reactions. <i>Chemische Berichte</i> , 1994 , 127, 791-793		6
522	Characterization of Neutral and Ionic Sulfur-Nitrogen Cluster Molecules NS_2 and NS_3 in the Gas Phase. <i>Chemische Berichte</i> , 1994 , 127, 1171-1173		5
521	Carbon-Carbon Bond Formation Promoted by Bare Lanthanide Cations: The Reactions of Ce^+ and La^+ with Propene in the Gas Phase. <i>Chemische Berichte</i> , 1994 , 127, 1807-1810		34
520	Reactivity Tuning by Ligand Effects: Gas-Phase Reactions of $\text{Fe}(\text{C}_6\text{H}_6)\text{O}^+$ versus Bare $[\text{FeO}^+$. <i>Chemische Berichte</i> , 1994 , 127, 2499-2503		26
519	Experimental evidence for the gas phase existence of HSOH (hydrogen thioperoxide) and SOH_2 (thiooxonium ylide). <i>Chemical Physics Letters</i> , 1994 , 221, 359-362	2.5	29
518	Potential energy surface of the $\text{Al}^+(\text{H}_2\text{O})$ cluster. <i>Chemical Physics Letters</i> , 1994 , 221, 518-522	2.5	31
517	High-energy collisions of $\text{Kr}@\text{C}_{60}^+$ with helium. Evidence for the formation of $\text{HeKr}@\text{C}_{60}^+$. <i>Chemical Physics Letters</i> , 1994 , 227, 87-90	2.5	24
516	Combined experimental and theoretical study of the C-H bond strength and the gas phase acidity of triacetylene, C_6H_2 , and the electron affinity of the $\text{C}_6\text{H}^{\cdot}$ radical. <i>Chemical Physics Letters</i> , 1994 , 229, 429-434	2.5	17

515	Gas-phase characterization of the neutral and cationic Si ₂ O ₂ molecules. A combined experimental and ab initio study. <i>Chemical Physics Letters</i> , 1994 , 225, 404-409	2.5	24
514	Theoretical prediction of the structure and the bond energy of the gold (I) complex Au ⁺ (H ₂ O). <i>Chemical Physics Letters</i> , 1994 , 225, 416-420	2.5	37
513	Gas-Phase Generation and Characterization of Nitrileimine, HCNNH: A new, stable isomer of diazomethane. <i>Helvetica Chimica Acta</i> , 1994 , 77, 2354-2362	2	22
512	Neutral Gold(I) Fluoride Does Indeed Exist. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 212-214		60
511	Catalytic Pt ⁺ -Mediated Oxidation of Methane by Molecular Oxygen in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1174-1176		103
510	Definitiver Beweis für die Existenz von AuF. <i>Angewandte Chemie</i> , 1994 , 106, 223-225	3.6	31
509	Katalytische, PtI-vermittelte Oxidation von Methan mit molekularem Sauerstoff in der Gasphase. <i>Angewandte Chemie</i> , 1994 , 106, 1232-1235	3.6	49
508	A neutralization/ionization (NR) case study for cationic iron complexes with simple ligands: NR mass spectra of Fe(C ₂ H ₄) ⁺ and Fe(CO) ⁺ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 134, 239-248		18
507	A combined experimental and theoretical study of the neutral, cationic, and anionic Si ₃ N cluster molecule. <i>Journal of Chemical Physics</i> , 1994 , 101, 2871-2879	3.9	42
506	Electronic Structures and Gas-Phase Reactivities of Cationic Late-Transition-Metal Oxides. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10734-10741	16.4	261
505	Iron(I)-Mediated Activation of C-C and C-H Bonds of cis- and trans-1-Acetyl-2-methylcyclopropanes in the Gas Phase: Competition between Ring Cleavage and .alpha.-CC-Bond Insertion Reactions. <i>Journal of the American Chemical Society</i> , 1994 , 116, 11089-11097	16.4	26
504	Preparation of N(SeCl) ₂ +X (X = SbCl ₆ or FeCl ₄), F ₃ CCSeNSeCCF ₃ +SbCl ₆ and F ₃ CCSeNSeCCF ₃ , F ₃ CCSeNSeCCF ₃ and F ₃ CCSeSeC(CF ₃)C(CF ₃)SeSeCCF ₃ . Electron diffraction study of F ₃ CCSeSeCCF ₃ and crystal structure of the eight-membered heterocycle F ₃ CCSeSeC(CF ₃)C(CF ₃)SeSeCCF ₃ . <i>Journal of the American Chemical Society</i> , 1994 , 116, 2705-2712		18
503	Further Insight in the Surprisingly Complex Unimolecular Fragmentations of the Methyl Nitrite Radical Cation. <i>Journal of the American Chemical Society</i> , 1994 , 116, 6395-6400	16.4	15
502	Gas-Phase Generation and Structural Characterization of the Fe(CO) ₂ ⁺ Cluster. <i>Organometallics</i> , 1994 , 13, 1518-1520	3.8	46
501	Stoichiometric Gas-Phase Oxidation Reactions of CoO ⁺ with Molecular Hydrogen, Methane, and Small Alkanes. <i>Organometallics</i> , 1994 , 13, 4072-4081	3.8	80
500	Generation and Characterization of the Anionic, Neutral, and Cationic Iron-Dioxygen Adducts [FeO ₂] in the Gas Phase. <i>Inorganic Chemistry</i> , 1994 , 33, 5094-5100	5.1	76
499	Generation, Fragmentation, and Interconversion Processes of [Fe,C ₆ H ₆ ,O] ⁺ Isomers Relevant for the Oxygenation of Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1096-1100	16.4	65
498	Oxidation of Benzene Mediated by First-Row Transition-Metal Oxide Cations: The Reactivity of ScO ⁺ Through NiO ⁺ in Comparison. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9565-9570	16.4	68

497	Reaction Products, Directionalities, and mechanisms of Iron(I)-Mediated CH-, CC-, and CO-Bond Activation of Aliphatic Carboxylic Acids in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5857-5864	16.4	34
496	Neutralization-reionization mass spectrometry: a powerful "laboratory" to generate and probe elusive neutral molecules. <i>Accounts of Chemical Research</i> , 1994 , 27, 347-352	24.3	175
495	Experimental Evidence for the Existence of Cyanovinylidene :C:C(H)CN. Gas-Phase Characterization of a Possible Interstellar Molecule. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 3080-3082		15
494	Experimental evidence for the existence of the protonitronium dication (HONO ₂ ⁺) in the gas phase and ab initio molecular orbital calculations of its potential energy surface. <i>Journal of the American Chemical Society</i> , 1993 , 115, 6312-6316	16.4	33
493	Iron(I)-induced diastereoselective carbon-hydrogen bond activation in nonrigid molecules. <i>Journal of the American Chemical Society</i> , 1993 , 115, 8818-8820	16.4	21
492	Functional group interactions in the iron cation-mediated degradation of phenols and their methyl ethers. <i>Organometallics</i> , 1993 , 12, 1079-1085	3.8	21
491	A GAUSSIAN-1 Type Ab Initio MO Study of the [CH ₂ NO] ⁺ Potential Energy Surface. Theoretical Support for the Existence of Three Experimentally Distinguishable Isomers in the Gas Phase. <i>Israel Journal of Chemistry</i> , 1993 , 33, 277-286	3.4	1
490	Gas-phase ion/molecule reactions of corannulene, a fullerene subunit. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11636-11637	16.4	73
489	Specific carbon-carbon bond cleavage in n-pentylbenzene by bare nickel(I) in the gas phase. <i>Organometallics</i> , 1993 , 12, 980-981	3.8	7
488	Intramolecular translocation of a nitrogen atom from a nitrosyl to a cyclopentadienyl ligand of (C ₅ H ₅) ₂ Fe ₂ NO ⁺ as probed by neutralization reionization mass spectrometry. <i>Organometallics</i> , 1993 , 12, 1972-1975	3.8	20
487	Combined ab initio MO and experimental studies on unimolecular hydrogen fluoride loss from protonated fluorobenzene in the gas phase. <i>Journal of the American Chemical Society</i> , 1993 , 115, 2015-2020	16.4	51
486	Migratory insertion of ethylene into the iron-carbon bond of Fe(NH ₂)CH ₃ ⁺ and further characterization of a reaction intermediate central to the Fe ⁺ -mediated dissociation of propylamine in the gas phase. <i>Organometallics</i> , 1993 , 12, 1449-1452	3.8	17
485	High-energy collisions of carbon cluster cations with helium: experimental support for the existence of imperfect fullerene structures. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 20-22		16
484	A GAUSSIAN-1 study of the [CHO ⁺] ₂ potential energy surface. Theoretical evidence for the existence of three experimentally distinguishable isomers in the gas phase. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 4659-4663		16
483	Application of thermal kinetics to small carbon ion clusters. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 6592-6597		28
482	Gas-phase generation and characterization of aminosilyliumylidene and aminosilylidyne: a combined neutralization-reionization mass spectrometry and ab initio molecular orbital study. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 10687-10693		31
481	Neutralization-reionization mass spectrometry experiments confirm the predicted existence of cyclic silicon oxide (Si ₂ O) and silicon nitride (Si ₂ N) cluster molecules. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 11371-11372		39
480	Gas-phase generation and characterization of methyl- and dimethylsilylene and their cations by collisional activation and neutralization-reionization mass spectrometry. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 13643-13646		10

479	Ligand Effects on the Reactivity of Iron (II) Cations FeX ⁺ in the Gas Phase. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1993 , 97, 1085-1090		26
478	Unprecedented double-electron transfer to a triply charged cation: Reactions of C with anthracene, corannulene, benzo[<i>rst</i>]pentaphene and pyrene. <i>Organic Mass Spectrometry</i> , 1993 , 28, 1005-1008		21
477	The energetical and structural properties of FeO ⁺ . An application of multireference perturbation theory. <i>Chemical Physics Letters</i> , 1993 , 211, 242-248	2.5	48
476	The NF ₂ H ⁺ . and NH ₂ F ⁺ . radical cations: conventional structures or ion-molecule complexes? A GAUSSIAN-1 study. <i>Chemical Physics Letters</i> , 1993 , 204, 53-58	2.5	6
475	The gas-phase generation and characterization of butatrienyli-dene H ₂ CCCC: by neutralization-reionization mass spectrometry. <i>Chemical Physics Letters</i> , 1993 , 213, 593-596	2.5	13
474	Gas-phase generation and characterization of linear silicon carbon hydrides SiC _x H. (x = 4, 6) by neutralization-reionization mass spectrometry. <i>Chemical Physics Letters</i> , 1993 , 205, 183-186	2.5	11
473	Ab initio MO calculations on the electronic and geometric structure of fullerene dications, C ₂ ⁺ 60, and the double-ionization energy of C ₆₀ . <i>Chemical Physics Letters</i> , 1993 , 205, 187-190	2.5	23
472	Ligand-Induced Hydrogen Scrambling and Interligand Carbon-Carbon Bond Formation in the Gas-Phase Reactions of MCH ₃ ⁺ (M=Fe, Co) with 1-Octyne and 1-Octene. <i>Chemische Berichte</i> , 1993 , 126, 1257-1260		7
471	Gas-Phase Generation and Characterization of Hydrogen Cyanide N-Methylide. <i>Chemische Berichte</i> , 1993 , 126, 2353-2355		10
470	Ligand Effects on the Gas-Phase Reactions of (L)FeI Complexes with n-Pentanenitrile. <i>Chemische Berichte</i> , 1993 , 126, 2553-2557		15
469	Mass-Spectrometric and GAUSSIAN2 Studies of the Diazene (HNNH) and Isodiazene (H ₂ NN) Molecules and Their Radical Cations. <i>Chemische Berichte</i> , 1993 , 126, 2753-2758		15
468	Transfer Hydrogenation and Deuteration of Buckminsterfullerene C ₆₀ by 9,10-Dihydroanthracene and 9,9?,10,10?-[D ₄]Dihydroanthracene. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 584-586		115
467	The Mechanism of Fullerene Formation. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1412-1415		61
466	The Coupled Activation of Molecular Oxygen and C-H and C-C Bonds in Gas-Phase Reactions of [M(C ₂ H ₄)] ⁺ (M = Sc-Zn) with O ₂ . <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1420-1422		25
465	Transferhydrierung und -deuterierung von Buckminsterfulleren C ₆₀ durch 9,10-Dihydro-anthracen bzw. 9,9?,10,10?-[D ₄]Dihydroanthracen. <i>Angewandte Chemie</i> , 1993 , 105, 609-611	3.6	28
464	Mechanismus der Fulleren-Entsehung. <i>Angewandte Chemie</i> , 1993 , 105, 1475-1478	3.6	23
463	Gekoppelte Aktivierung von molekularem Sauerstoff sowie von C-H- und C-C-Bindungen in Gasphasenreaktionen von O ₂ mit [M(C ₂ H ₄)] ⁺ (M = Sc-Zn). <i>Angewandte Chemie</i> , 1993 , 105, 1493-1495	3.6	7
462	Regio- and Stereoselectivity of Transition-Metal-Ion-Mediated Single and Double Dehydrogenation of Tetraline. <i>Helvetica Chimica Acta</i> , 1993 , 76, 113-116	2	7

461	Definitive Proof for the Operation of Isotopically Sensitive Branching (Metabolic Switching) in FeI-Mediated C-H Bond Activation in the Gas Phase Short Communication. <i>Helvetica Chimica Acta</i> , 1993 , 76, 1632-1635	2	13
460	Refined Insight in Stereochemical and Directional Features of the FeI-Mediated Dehydrogenation of Tetralin. <i>Helvetica Chimica Acta</i> , 1993 , 76, 2384-2387	2	3
459	Experiments aimed at generating the long-sought-after ethylenedione (O=C=C=O) by neutralization/reionization mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 125, 75-79		37
458	Charge reversal (CR) and neutralization reionization (NR+) mass spectrometry of bicarbonate and bisulfite ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 124, R7-R9		7
457	Generation and identification of neutral and cationic hydrogensilaisocyanide (HNSi) by neutralization/reionization mass spectrometry and gaussian-1 ab initio molecular orbital calculations. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 125, 267-270		27
456	Theoretical study of the thermochemical stabilities of the isomers of hydroxylsilylene [H ₂ SiO].bul.+ in the gas phase. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 5355-5358		11
455	Experimental and ab initio MO studies on [H ₂ N,O] ⁺ ions in the gas phase: characterization of the isomers H ₂ NO ⁺ , HNOH ⁺ and NOH ₂ ⁺ and the mechanism of unimolecular dehydrogenation of [H ₂ N,O] ⁺ . <i>The Journal of Physical Chemistry</i> , 1992 , 96, 4841-4845		18
454	Gas-phase protonation of nitrosyl hydride: a GAUSSIAN-1 ab initio MO study of the structure, stability, and unimolecular interconversion processes of various [H ₂ N,O] ⁺ isomers. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 2100-2103		12
453	Sulfur compounds. 148. Generation and characterization of dihydroxy disulfide, HOSSOH: the chainlike isomer of thiosulfurous acid. <i>Inorganic Chemistry</i> , 1992 , 31, 941-944	5.1	28
452	Gas-phase chemistry of bare transition-metal ions in comparison. 2. Reactions of titanium(+) to zinc(+) with 2-ethylbutanenitrile. <i>Organometallics</i> , 1992 , 11, 1637-1646	3.8	16
451	Reactivity of gas-phase copper(I) with octyne isomers. <i>Organometallics</i> , 1992 , 11, 2079-2087	3.8	8
450	Unimolecular chemistry of methyl formate cation radical. A combined theoretical and experimental study. <i>Journal of the American Chemical Society</i> , 1992 , 114, 3776-3783	16.4	21
449	Gas-phase generation and structural characterization of [H ₂ C O Si].bul.+ and [H ₂ C O Si] by collisional-activation and neutralization-reionization mass spectrometry and theory: evidence for the distonic ion H ₂ C.bul.-O-Si+ and the biradical CH ₂ OSi. <i>Journal of the American Chemical Society</i> , 1992 , 114, 1939-1942	16.4	16
448	Nitrogen versus fluorine protonation of nitrogen fluoride in the gas-phase. A combined mass spectrometric and Gaussian-1 ab initio MO study reveals the existence of two distinct isomers F ₃ NH ⁺ and F ₂ N-FH ⁺ . <i>Journal of the American Chemical Society</i> , 1992 , 114, 2806-2810	16.4	52
447	Generation of cationic and neutral iron formate, HC(O)OFe, in the gas phase. <i>Organometallics</i> , 1992 , 11, 2296-2298	3.8	18
446	Insertion of phosphorus into the carbon-carbon bond of benzene as observed by collision-mass spectrometry. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7582-7584	16.4	14
445	Experimental and theoretical characterization of isomeric adduct ions of silicon radical cation and benzene and their neutral counterparts. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2802-2806	16.4	28
444	Spectroscopic detection of two neutral CHNO ₂ isomers: nitrocarbene and nitrosoformaldehyde. <i>Journal of the American Chemical Society</i> , 1992 , 114, 344-345	16.4	20

443	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	16.4	185
442	Gas-phase reactions of secondary and tertiary isocyanates with titanium(1+) to zinc(1+): model studies for catalytic processes. <i>Journal of the American Chemical Society</i> , 1992 , 114, 6173-6182	16.4	12
441	Structural characterization and distinction of isobaric NCCCO ⁺ and NCCNN ⁺ and their neutral analogues in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 113, R17-R22		7
440	The neutralization/ionization mass spectrum of C ⁺ 60. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 113, R23-R29		29
439	Unimolecular fragmentations of the radical cation of the high-valent organometal oxide CH ₃ ReO ₃ and its reactivity with ethylene in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 122, 99-107		7
438	Experimental evidence for the conservation of an intact carbon skeleton and the intermediacy of a solvated hydride ion in the unimolecular dehydrogenation of norborneol alkoxides in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 117, 15-22		1
437	Chemical signatures of Buckminsterfullerene, C ₆₀ , under chemical ionization conditions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 116, R13-R21		9
436	High-energy collisions of organofullerene cations with helium. Ligand evaporation caused by encapsulation of the noble gas atom. <i>Chemical Physics Letters</i> , 1992 , 199, 640-642	2.5	10
435	A Mass-Spectrometric Investigation of C _x NO ₂ (x=1, 2) Ions and Neutrals. <i>Chemische Berichte</i> , 1992 , 125, 279-283		22
434	Fe ⁺ -Mediated Dehydrogenation of 2-Propanol and Ethanol by 1,3-Butadiene and Evidence for Interligand Hydrogen Exchange Processes. <i>Chemische Berichte</i> , 1992 , 125, 751-756		18
433	Mass-spectrometric characterization of isomeric NNCCN and NCNCN Ions and neutrals. <i>Chemische Berichte</i> , 1992 , 125, 1517-1520		4
432	On the Reactions of Fe(CH ₂) ⁺ with 1,7-Octadiene in the Gas Phase. <i>Chemische Berichte</i> , 1992 , 125, 2817-2819		14
431	The Neutralization of HeC 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		76
430	C ₆₀ -Fullerene: A Playground for Chemical Manipulations on Curved Surfaces and in Cavities**. <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 293-298		56
429	O-H Bond Activation in the Gas Phase: The Reactions of Water and Methanol with [FeCH ₃] ⁺ . <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 603-604		34
428	Sequential Insertion of ³ He and ⁴ He in C. <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 605-606		14
427	Cationic and neutral nitrosamide: viable molecules in the dilute gas phase. <i>Chemical Physics Letters</i> , 1992 , 199, 643-647	2.5	11
426	Ab initio MO calculation on the energy barrier for the penetration of a benzene ring by a helium atom. Model studies for the formation of endohedral He@C ₆₀ ⁺ complexes by high-energy bimolecular reactions. <i>Chemical Physics Letters</i> , 1992 , 193, 97-100	2.5	42

425	Endohedral fullerene-noble gas clusters formed with high-energy bimolecular reactions of C (x = 60, 70; n = 1, 2, 3). <i>Helvetica Chimica Acta</i> , 1992 , 75, 79-89	2	70
424	Benzene Oxidation by $\text{Bare}[\text{FeO}]^+$ in the Gas Phase. <i>Helvetica Chimica Acta</i> , 1992 , 75, 1281-1287	2	58
423	Highly Selective Benzylic C-H Bond Activation of Toluene 1 by $\text{Bare}[\text{FeO}]^+$ in the Gas Phase. Short communication. <i>Helvetica Chimica Acta</i> , 1992 , 75, 1792-1797	2	23
422	Generation of $\text{Bare}[\text{FeF}]^+$ by C-F Bond Activation in the Gas Phase and Evaluation of Thermochemical Data. Short communication. <i>Helvetica Chimica Acta</i> , 1992 , 75, 2215-2218	2	19
421	Beweis der Existenz einer endohedralen $\text{He}@C_{60}$ -Struktur durch Gasphasenneutralisation von HeC_{60}^+ . <i>Angewandte Chemie</i> , 1992 , 104, 242-244	3.6	25
420	C_{60} -Fulleren als Tummelplatz für chemische Manipulationen an gekrümmten Oberflächen und in Hohlräumen. <i>Angewandte Chemie</i> , 1992 , 104, 301-305	3.6	22
419	O-H-Bindungsaktivierung bei Wasser und Methanol durch $[\text{FeCH}_3]^+$. <i>Angewandte Chemie</i> , 1992 , 104, 637-639	3.6	17
418	Sequentieller Einbau von ^3He und ^4He in C. <i>Angewandte Chemie</i> , 1992 , 104, 639-640	3.6	6
417	Injection of helium atoms into doubly and triply charged carbon (C_{60}) cations. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 8451-8452		65
416	Neutralization/ionization 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		77
415	Gas-phase chemistry of $\text{CH}_3(\text{CH}_2)_m\text{CH}(\text{CH}_2)_n\text{OH}/\text{Fe}^+$ complexes (m = 2B; n = 2B). Evidence for chelate formation and its implication for exo- versus endocyclic CH/CC bond activation processes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 110, 237-241		1
414	Revision of the mechanism of Co^+ -mediated CH/CC bond activation of n-hexanol in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 107, 553-557		16
413	On the mechanism of Fe^+ -mediated CH/CC bond activation as studied by intramolecular kinetic isotope effects. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 107, 559-564		4
412	Generation and characterization of neutral and cationic 3-sila-cyclopropenyldiene in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 107, 369-376		119
411	Unimolecular loss of molecular nitrogen from metastable dicyanoacetylene radical cation (NCCCN^+). <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 105, R1-R4		3
410	Subtle interplay of functional groups and chain length effects in the Fe^+ -mediated gas-phase chemistry of alkyl halides containing double and triple bonds. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 107, 135-140		3
409	Simple ligand exchange reaction or not, that is the question. But is it also metal ion dependent?. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 108, 87-91		7
408	Organometallic chemistry in the gas phase. <i>Chemical Reviews</i> , 1991 , 91, 1121-1177	68.1	750

407	Regioselectivity, Stereoselectivity, and Isotopically Sensitive Branching in the Fe(I)-Mediated Dehydrogenation of Octane-1,8-diol in the Gas Phase. <i>Helvetica Chimica Acta</i> , 1991 , 74, 1127-1134	2	21
406	Site-Selectivity in the Fe ⁺ -Mediated C-H/C-C Bond Activation of Aldehydes Short Communication. <i>Helvetica Chimica Acta</i> , 1991 , 74, 1171-1174	2	0
405	Gas-Phase Chemistry of Ti ⁺ to Zn ⁺ with Butyl Isothiocyanate. <i>Helvetica Chimica Acta</i> , 1991 , 74, 1609-1621		6
404	Unimolecular Gas-Phase Oxidation of Terminal Hydroxy Groups in [FeO(CH ₂) _n OH] ⁺ Complexes (n = 2-8). A Case for O-H Bond Activation by Late Transition-Metal Ions. Preliminary Communication. <i>Helvetica Chimica Acta</i> , 1991 , 74, 1739-1741	2	3
403	Characterization of Nitrosocarbonyl Compounds by Neutralization-Reionization Mass Spectrometry. <i>Helvetica Chimica Acta</i> , 1991 , 74, 2068-2072	2	8
402	Activation of Methane. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 820-821		67
401	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		246
400	Oxidation of Alkanes by [Fe(O)OH] ⁺ in the Gas Phase - The Role of Iron Oxidation State in C-H Activations. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 991-993		24
399	The Radical Cations of Silaketene and Several Isomers of [C ₂ H ₂ Si ₂ O] ⁺ : An Ab Initio MO Investigation. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 1323-1325		15
398	Aktivierung von Methan. <i>Angewandte Chemie</i> , 1991 , 103, 837-838	3.6	33
397	Endohedrale Clusterverbindungen: Einbau von Helium in C ₆₀ - und C ₇₀ -Fullerene durch Kollisionsexperimente. <i>Angewandte Chemie</i> , 1991 , 103, 898-900	3.6	51
396	Oxidation von Alkanen durch [Fe(O)OH] ⁺ in der Gasphase - zur Rolle der Fe-Oxidationsstufe bei C-H-Aktivierungen. <i>Angewandte Chemie</i> , 1991 , 103, 987-989	3.6	13
395	Radikalkationen von Silaketen und einige [C ₂ H ₂ Si ₂ O] ⁺ -Isomere, eine ab-initio-MO-Untersuchung. <i>Angewandte Chemie</i> , 1991 , 103, 1396-1398	3.6	2
394	Is the Fe ⁺ -Induced C-H/C-C Bond Activation of Alkanedinitriles Affected by Bifunctional Interactions?. <i>Chemische Berichte</i> , 1991 , 124, 141-147		10
393	Gas-Phase Thermolysis, 14. On the Isomerization of Dimethyl Carbonate and Its Mono-, Di-, and Trithio Analogs. <i>Chemische Berichte</i> , 1991 , 124, 1265-1270		6
392	On the Generation of Polycarbon Nitride Radicals C _n N ₂ (n = 2-8) by Neutralization-Reionization Mass Spectrometry. <i>Chemische Berichte</i> , 1991 , 124, 1481-1483		29
391	Geminal-Dialkyl-Effect-Controlled Site Selectivity of Fe(I)-Mediated C-H/C-C Bond Activation of Aliphatic Ketones. <i>Chemische Berichte</i> , 1991 , 124, 1679-1680		3
390	Chemie - Backter-Molek. Oder das Massenspektrometer als Laboratorium. <i>Chemie in Unserer Zeit</i> , 1991 , 25, 268-278	0.2	11

389	On the existence of novel nitrides and oxides of copper; CuN, CuO ₂ and CuNO. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 108, 269-272		34
388	Formation of endohedral carbon-cluster noble-gas compounds with high-energy bimolecular reactions: C ₆₀ H _n ⁺ (n=1,2). <i>Chemical Physics Letters</i> , 1991 , 186, 459-462	2.5	69
387	Mass spectrometric identification of PS, PS and PSB. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 70-71	2.2	9
386	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	16.4	125
385	Gas-phase generation and characterization of neutral and ionized HSiOH, H ₂ SiO, H ₂ SiOH, and H ₃ SiO by collisional-activation and neutralization-reionization mass spectrometry. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 9836-9841		42
384	Ligand-enhanced selectivity in the CH/CC bond activation of ketones by iron(I) ions in the gas phase. <i>Organometallics</i> , 1991 , 10, 2052-2055	3.8	31
383	Chain length imposed, iron(I)-mediated 1,1-dehydrogenation and decarbonylation of a methoxy group. A possible case for a gas-phase reversal of the Fischer-Tropsch synthesis involving an atomic iron(I) center. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8335-8339	16.4	17
382	Experimental evidence for the existence of SiCH _x (x = 1-3) molecules in the gas phase. <i>Journal of the American Chemical Society</i> , 1991 , 113, 52-54	16.4	55
381	The gas-phase chemistry of iron cation with n-pentanenitrile: a seemingly simple system?. <i>Journal of the American Chemical Society</i> , 1991 , 113, 833-839	16.4	20
380	Experimental evidence for the existence of polycarbon oxide sulfides O(C _n)S (n = 3-5) in the gas phase. <i>Journal of the American Chemical Society</i> , 1991 , 113, 48-51	16.4	16
379	The Search For Elusive Potentially Interstellar Neutrals by Neutralization-Reionization Mass Spectrometry: Polycarbon Chalcogenides X(C _n)Y (X, Y: O, S) 1991 , 237-248		5
378	Specific Activation of CH- and CC-Bonds by Bare Transition-Metal Ions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990 , 94, 1201-1210		16
377	Gas-Phase Chemistry of Isolated Metal Ions: Are Predictions on Catalytic Properties Possible Based on the Study of Simple Model Reactions?. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990 , 94, 1339-1343		7
376	Gas-phase generation and structural characterization of SiC ₂ H and SiC ₂ H ⁺ by neutralization-reionization mass spectrometry: evidence for the existence of silicon acetylide (HC≡CSi) and its cation HC≡CSi ⁺ . <i>Chemical Physics Letters</i> , 1990 , 175, 575-578	2.5	19
375	Transition-Metal-Induced Generation of C ₂ H ₄ from 1,7-Octadiene: Regiospecific Activation of Internal C≡C Bonds instead of Metathesis-like Coupling of Terminal CH ₂ Groups. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 402-404		11
374	Ionic Isomer Distinction by Neutralization-Reionization Mass Spectrometry (NRMS): Carbonic Acid Radical Cations, (HO) ₂ CO [•] versus (H ₂ O/CO ₂) [•] Clusters. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 404-406		3
373	Kinetic Isotope Effects as a Mechanistic Tool for the Elucidation of the Rate-Determining Step(s) in the Transition-Metal-Ion-Mediated Activation of CH/CC Bonds. Ethylene Loss from Metastable 4-Octyne/M ⁺ Complexes in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 509-510		2
372	Identification of Butatrienedione, Its Radical Anion, and Its Radical Cation in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 908-909		15

371	Iron(II)-Mediated Hydride and Methanide Transfer to Carbonyl Groups. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 910-912		28
370	Fe ⁺ -Catalyzed Gas-Phase Oxidation of Ethane by N ₂ O. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 1431-1433		70
369	FeO ⁺ Activates Methane. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 1433-1434		190
368	Bergangsmetall-vermittelte Erzeugung von C ₂ H ₄ aus 1,7-Octadien: regiospezifische Aktivierung innerer C-C-Bindungen anstelle Metathese-analoger Kupplung terminaler CH ₂ -Gruppen. <i>Angewandte Chemie</i> , 1990 , 102, 429-431	3.6	5
367	Unterscheidung isomerer Ionen durch Neutralisations-Reionisations-Massenspektrometrie (NRMS): Kohlenäure-Radikalkationen (HO)C(O) versus (H ₂ O/CO) ₂ -Cluster. <i>Angewandte Chemie</i> , 1990 , 102, 431-433	3.6	2
366	Nachweis von 1,2,3-Butatrien-1,4-dion, seinem Radikalanion und seinem Radikalkation in der Gasphase. <i>Angewandte Chemie</i> , 1990 , 102, 923-925	3.6	18
365	Eisen(II)-vermittelte Hydrid- und Methanidübertragung auf Carbonylgruppen. <i>Angewandte Chemie</i> , 1990 , 102, 925-927	3.6	17
364	Fe ⁺ -katalysierte Gasphasenoxidation von Ethan durch N ₂ O. <i>Angewandte Chemie</i> , 1990 , 102, 1466-1468	3.6	23
363	FeO ⁺ aktiviert Methan. <i>Angewandte Chemie</i> , 1990 , 102, 1468-1469	3.6	45
362	Dehydrosulfurization of Isothiocyanates by Gas-Phase Fe(I) Cations. <i>Helvetica Chimica Acta</i> , 1990 , 73, 229-238	2	11
361	Dehydration of Alkanones by Bare FeO ⁺ Involves the $\alpha(\beta)$ Positions: Exclusion of Iron Carbenes as Intermediates. Preliminary Communication. <i>Helvetica Chimica Acta</i> , 1990 , 73, 380-385	2	19
360	Dichotomy of Fe ⁺ -Mediated Sequential Activation of C ^α H/C ^β C Bonds of Aldimines: A Case of Efficient Reaction Control by Chain-Length Effects Preliminary Communication. <i>Helvetica Chimica Acta</i> , 1990 , 73, 1163-1166	2	8
359	Kinetic Isotope Effects and exo/endo-Face Selectivity in the Unimolecular Dehydrogenation of Norborneol Alkoxides in the Gas Phase. <i>Helvetica Chimica Acta</i> , 1990 , 73, 2179-2182	2	6
358	Trends Across the Periodic Table I A Screening of the Gas-Phase Chemistry of d-Block Transition-Metal Ions with Isocyanides. <i>Chemische Berichte</i> , 1990 , 123, 201-208		26
357	Regiospecific Activation of C ^β H Bonds in Fe ⁺ Complexes of β -Silyl-substituted Alkanenitriles Caused by Metal-Ion-Mediated Cooperative Effects of Functional Groups. <i>Chemische Berichte</i> , 1990 , 123, 209-211		21
356	Mechanism of CH ₂ ⁺ Transfer from Distonic Ions X - CH ₂ ⁺ (X = CH ₂ O, CH ₂ CH ₂) to π and n-Electron Bases in the Gas Phase. A Fourier Transform Ion Cyclotron Resonance (FTICR) Study Supplemented by ab initio MO Calculations. <i>Chemische Berichte</i> , 1990 , 123, 535-540		22
355	Tuning C ^α H/CC Bond-Activation Processes of Branched Amines by Choosing the Appropriate Gas-Phase Transition-Metal Ion. <i>Chemische Berichte</i> , 1990 , 123, 939-941		15
354	Metal Ions Control the Competition between β and α -Hydrogen Transfer in the Generation of Propene from 1,7-Octadiene in the Gas Phase. <i>Chemische Berichte</i> , 1990 , 123, 1583-1586		5

353	The laboratory generation of potentially interstellar cumulenes $S(C_n)S$ ($n = 2-8$) and their radical cations. <i>Chemische Berichte</i> , 1990 , 123, 2069-2071		29
352	Generation and characterization of stable monomeric transition-metal acetylides $MCCH$ ($M = Fe, Co, Ni$) by neutralization/ionization mass spectrometry. <i>Chemical Physics Letters</i> , 1990 , 171, 5-8	2.5	18
351	Metal ion mediated heterolytic cleavage of $Si-C$ bonds resulting in the generation of neutral MCH_3 fragments ($M = Fe, Co$). <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 98, R1-R5		5
350	Detection and characterization of competitive processes giving rise to isomeric products in the reactions of Fe^+ , Co^+ and Ni^+ with n-butyl cyanide. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 100, 803-819		12
349	Ionization energies of the cations of metallocene ($M(C_5H_5)_2$), their half-sandwich complexes MC_5H_5 and the bare transition-metal ions M^+ ($M = Fe, Co, Ni$). <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 101, 121-126		10
348	Experimental evidence for novel hydrogen/methyl exchange processes preceding the unimolecular dissociation of silicon-containing cations in the gas phase. <i>Organometallics</i> , 1990 , 9, 1161-1165	3.8	25
347	Evidence for the existence of unsaturated organoaluminum molecules in the gas phase: $AlCH_2$, $Al(CH_3)_x$ ($x = 1, 2$), and AlC_2H_4 . <i>Journal of the American Chemical Society</i> , 1990 , 112, 8334-8337	16.4	41
346	Gas-phase chemistry of bare transition-metal ions in comparison. <i>Journal of the American Chemical Society</i> , 1990 , 112, 621-627	16.4	155
345	Evidence for the activation of unstrained carbon-carbon bonds by bare transition metal ions M^+ ($M = Fe, Co$) without prior C-H bond activation. <i>Organometallics</i> , 1990 , 9, 2034-2040	3.8	19
344	Highly specific, interligand triple hydrogen migrations involved in the formation of C_3H_6 from 1-heptyne and bare iron(I) cations. A gas-phase analog of the Crabtree-Felkin type of carbon-hydrogen bond activation. <i>Organometallics</i> , 1990 , 9, 2164-2167	3.8	8
343	Reaction of isopropyl isocyanate with bare vanadium(I) cations leading to combined decarbonylation/demethanation. <i>Inorganic Chemistry</i> , 1990 , 29, 3250-3252	5.1	6
342	On the existence of two distinguishable isomers of CS_3 : carbon trisulfide and carbon disulfide S-sulfide. <i>Journal of the American Chemical Society</i> , 1990 , 112, 3750-3754	16.4	27
341	Experimental evidence for β -methyl migration in the course of Fe^+ -mediated alkane formation from silazanes in the gas phase. <i>Organometallics</i> , 1990 , 9, 2409-2412	3.8	6
340	Unimolecular dissociations of ketone/iron cationic complexes and evidence for successive carbon-hydrogen/carbon-carbon bond activation of different sites of flexible molecules. <i>Journal of the American Chemical Society</i> , 1990 , 112, 5947-5953	16.4	42
339	Experimental evidence for the existence of neutral and ionized thioxoethylenone in the gas phase. <i>Journal of the American Chemical Society</i> , 1990 , 112, 628-630	16.4	38
338	Kinetische Isotopeneffekte zur Charakterisierung der geschwindigkeitsbestimmenden Schritte bei der Übergangsmetallvermittelten Aktivierung von CH/CC -Bindungen: Ethylen-Abspaltung aus metastabilen 4-Octin- M^+ -Komplexen in der Gasphase. <i>Angewandte Chemie</i> , 1990 , 102, 566-568	3.6	0
337	Beam Experiments as a Means for the Generation of Elusive Sulfur-Containing Molecules 1990 , 185-192		3
336	Stereochemical Criteria Providing Unambiguous Experimental Evidence for the intermediacy of ion/molecule complexes in the generation of enolates from gaseous alkoxides. Short communication. <i>Helvetica Chimica Acta</i> , 1989 , 72, 320-322	2	14

335	Site-Specific, Oxidative Addition of C?C Bonds by Anchored Bare Fe(I) cations prior to C?H bond activation. Preliminary communication. <i>Helvetica Chimica Acta</i> , 1989 , 72, 633-637	2	14
334	Revision und Modifikation des traditionellen Mechanismus der C-H/C-C-Aktivierung durch nackte Bergangsmetall-Ionen. <i>Angewandte Chemie</i> , 1989 , 101, 634-636	3.6	16
333	Dithia-Dikationen aus cyclischen und acyclischen Vorläufern durch Gasphasenoxidation (Charge stripping) von 3e/2c-Radikalkationen. <i>Angewandte Chemie</i> , 1989 , 101, 1247-1249	3.6	4
332	Sukzessive ferngesteuerte Funktionalisierung nämlich getrennter flexibler Molekülsegmente durch nackte Fe-Ionen. <i>Angewandte Chemie</i> , 1989 , 101, 1306-1308	3.6	12
331	Kleine organische Dikationen Symbiose von Gasphasenexperimenten und MO-Berechnungen. <i>Angewandte Chemie</i> , 1989 , 101, 1313-1335	3.6	32
330	The generation and identification of triplet vinylidene, [H ₂ C?C];, by neutralization-reionization mass spectrometry. <i>Chemical Physics Letters</i> , 1989 , 156, 397-400	2.5	37
329	On the generation and identification of stable HCN/Cu(0) and HCN/Cu(0) complexes in the gas phase using neutralization/reionization mass spectrometry (NRMS). <i>Chemical Physics Letters</i> , 1989 , 154, 443-448	2.5	30
328	Evidence for exchange processes associated with the hydrogenation of methyl (Z)-acetamidocinnamate by a silica-bound chiral dirhodium catalyst. <i>Chemische Berichte</i> , 1989 , 122, 1599-1601		8
327	CCS and S(C ₄ S): The laboratory generation of interstellar molecules and their radical cations. <i>Chemische Berichte</i> , 1989 , 122, 1803-1805		47
326	Generation of C ₆ S ₆ and its radical anion and cation in the gas phase. <i>Chemische Berichte</i> , 1989 , 122, 2411-2412	29	
325	Revision and Modification of the Traditional Mechanism of C?H/C?C Activation by Naked Transition-Metal Ions. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 607-609		24
324	Dithia Dications from Cyclic and Acyclic Precursors by Gas-Phase Oxidation (Charge Stripping) of 3e/2c-Radical Cations. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 1275-1276		15
323	Multiple Remote Functionalization of Different Sites in Flexible Molecules by Anchored Bare Fe Ions. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 1277-1278		24
322	Organic Dications: Gas Phase Experiments and Theory in Concert. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 1321-1341		123
321	Experimental evidence for the generation of CH ₂ COH ₂ ⁺ from CH ₃ CO ⁺ . An application of charge stripping/charge separation mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 87, 135-140		4
320	Formation and detection of neutral half-sandwich complexes MC ₅ H ₅ (M = Fe, Co, Ni) using neutralization-reionization mass spectrometry (NRMS). <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 93, 177-183		22
319	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		151
318	Chain-length-dependent inside/outside-protonation of N,N?-polymethylene-syn-1,6:8,13-diimino[14]annulenes in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 91, R1-R4		2

- 317 CH5N2 hydrazyl radicals, cations and dication radicals studied by mass spectrometry. Is the N-protonated formaldehyde hydrazon cation +CH2?NH?NH2 a bridged species?. *International Journal of Mass Spectrometry and Ion Processes*, **1989**, 95, 157-169 10
- 316 Chain-length-dependent ligand effects on the direction of Fe+-mediated activation and cleavage of carbon-carbon bonds in alkenyl nitriles in the gas phase. *Journal of the American Chemical Society*, **1989**, 111, 2857-2861 16.4 28
- 315 Origin of the distinctly different gas-phase chemistry of linear and .alpha.-branched aliphatic nitriles with bare iron(I) ions. Evidence for oxidative addition of the carbon-cyano bond to iron(+), new mechanisms for the reductive eliminations of alkanes, and a demonstration of consecutive carbon-hydrogen/carbon-carbon bond activations of different sites of flexible molecules. 3.8 29
- 314 Carbon-carbon activation of phosphalkynes by bare iron(I) cations in the gas phase. *Journal of the American Chemical Society*, **1989**, 111, 4228-4232 16.4 10
- 313 The oxidative addition of the carbon-hydrogen bond is not the rate-determining step in the remote functionalization of nitriles by bare iron(I) ions. *Journal of the American Chemical Society*, **1989**, 111, 4561-4563²⁰ 16.4 20
- 312 Revised and modified mechanisms for the reactions of bare transition metal ions M+ (M = Fe, Co, Ni) with n-C3H7X (X = NH2, OH) in the gas phase. *Journal of the American Chemical Society*, **1989**, 111, 9018-9023 16.4 47
- 311 The detailed mechanism for the reaction of bare iron(I) ions with tert-butyl cyanide and isocyanide in the gas phase. *Organometallics*, **1989**, 8, 1820-1822 3.8 26
- 310 Reactions of bare transition-metal ions M+ (M = iron, cobalt) with 1-alkanols in the gas phase. *Organometallics*, **1989**, 8, 2856-2860 3.8 33
- 309 Remote functionalization of C-H and C-C bonds by "naked" transition-metal ions (Cosi Fan Tutte). *Accounts of Chemical Research*, **1989**, 22, 282-287 24.3 163
- 308 Reactions of gas-phase iron(I) ions with neutral allenes. Degenerate double-bond isomerization versus competitive activation of vinylic and allenyl carbon-carbon bonds. *Organometallics*, **1989**, 8, 759-766^{3.8} 18
- 307 Extraordinary large stabilization of the phenyl cation by hyperconjugation with strained bonds. Experimental confirmation of a theoretical prediction. *Journal of the Chemical Society Chemical Communications*, **1989**, 1015 5
- 306 aci-nitromethane generated and characterized by neutralization reionization mass spectrometry. *Zeitschrift Fur Elektrochemie Und Elektrochemie*, **1989**, 93, 76-80 22
- 305 Remote Functionalization of Carbon-Hydrogen and Carbon-Carbon Bonds by Bare Transition Metal Ions in the Gas Phase **1989**, 203-234 12
- 304 Ethylendithion (C2S2): Erzeugung und Charakterisierung durch Neutralisations-Reionisations-Massenspektrometrie. *Angewandte Chemie*, **1988**, 100, 1384-1386 3.6 30
- 303 Erzeugung und Charakterisierung der schwefligen Säure (H2SO3) und ihres Radikalkations als stabile Moleküle in der Gasphase. *Angewandte Chemie*, **1988**, 100, 1591-1592 3.6 8
- 302 Gasphasenoxidation (Charge-Stripping) von ionisierten Pagodanen und verwandten Kohlenwasserstoffen. Eine theoretisch-experimentelle Studie zu Tetramethylen-Dikationen. *Chemische Berichte*, **1988**, 121, 187-189 16
- 301 Ethylendithione (C2S2): Generation and Characterization by Neutralization-Reionization Mass Spectrometry. *Angewandte Chemie International Edition in English*, **1988**, 27, 1337-1339 42
- 300 Generation and Characterization of Sulfurous Acid (H2SO3) and of Its Radical Cation as Stable Species in the Gas Phase. *Angewandte Chemie International Edition in English*, **1988**, 27, 1533-1534 26

299	Experimental evidence for the gaseous HSO ₃ radical. The key intermediate in the oxidation of SO ₂ in the atmosphere. <i>Chemical Physics Letters</i> , 1988 , 148, 537-540	2.5	21
298	Chinese whip scorpion using 2-ketones in defense secretion (Arachnida: Uropygi). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1988 , 157, 883-885	2.2	6
297	Charge separation (coulomb explosion) processes of doubly charged cations of sandwich compounds in the gas phase: evidence for the junction of two C ₅ H ₅ units. <i>Journal of Organometallic Chemistry</i> , 1988 , 339, 333-338	2.3	22
296	Iron(I)-induced demethanation of tert-butyl-substituted nitriles in the gas phase. A case of remote functionalization of carbon-carbon bonds. <i>Journal of the American Chemical Society</i> , 1988 , 110, 5986-93	16.4	26
295	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	16.4	92
294	Manganese(I)-induced 1,6-demethanation across the carbon-carbon triple bond of linear alkynes in the gas phase. A case for the generation of manganese cycloalkynes?. <i>Journal of the American Chemical Society</i> , 1988 , 110, 67-70	16.4	24
293	Activation of carbon-hydrogen and carbon-carbon bonds of 4-octyne in the gas phase by bare transition-metal ions M ⁺ (M = chromium, manganese, iron). <i>Organometallics</i> , 1988 , 7, 898-902	3.8	19
292	Experimental evidence for the existence of ionized and neutral fluorohydroxymethylene (FCOH) in the gas phase. <i>Journal of the American Chemical Society</i> , 1988 , 110, 8330-8333	16.4	25
291	A theoretical study of the reaction of ketene radical cation with ethylene: nucleophilic addition or concerted [2 + 1] cycloaddition?. <i>Journal of the American Chemical Society</i> , 1988 , 110, 6332-6336	16.4	31
290	The coordination of bare iron(I) ion (Fe ⁺) to aliphatic isonitriles differs from that of Fe ⁺ and nitriles. <i>Journal of the American Chemical Society</i> , 1988 , 110, 3068-3071	16.4	22
289	Hydrogenation of arenes by the RhCl ₃ -Aliquat 336 catalyst. 4. Hydrogen-deuterium exchange and other mechanistic features. <i>Journal of Organic Chemistry</i> , 1987 , 52, 2804-2813	4.2	63
288	Rearrangement vs. dissociation of gaseous silicon-containing cations: a combined experimental/theoretical approach. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 989-991		27
287	An MNDO study of the unimolecular reactions of methyl acetate and its sulphur analogues. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1987 , 237		4
286	Formation of a two-centre, three-electron, sulphur-sulphur bond in the gas phase. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 1381-1383		19
285	On the mechanism of (C,H ₃ O) [•] loss from ionized methyl acetate. An ab initio molecular orbital study. <i>Journal of the American Chemical Society</i> , 1987 , 109, 1317-1322	16.4	71
284	Reaction of nitriles and iron(I ⁺) in the gas phase. A case of remote functionalization. <i>Journal of the American Chemical Society</i> , 1987 , 109, 98-100	16.4	42
283	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	16.4	101
282	Deceptive similarities in the reactions of iron(I) and cobalt(I) with linear nitriles in the gas phase. <i>Journal of the American Chemical Society</i> , 1987 , 109, 5639-5644	16.4	25

281	Generation of the distonic ion CH ₂ NH ₃ .bul.+ : nucleophilic substitution of the ketene cation radical by ammonia and unimolecular decarbonylation of ionized acetamide. <i>Journal of the American Chemical Society</i> , 1987 , 109, 4810-4818	16.4	62
280	Theory and experiment in concert: evidence for a stable ammoniaborene dication (H ₃ NBH ₂ ⁺). <i>Journal of the American Chemical Society</i> , 1987 , 109, 2922-2924	16.4	9
279	Formation and detection of neutral FeCH _x (x = 0-3) using neutralization-reionization mass spectrometry (NRMS). <i>Organometallics</i> , 1987 , 6, 2268-2270	3.8	30
278	Structures and energies of isomeric cyclopentenyl cations. Resolution of the question of anchimeric assistance in cyclopenten-4-yl solvolysis. <i>Journal of the American Chemical Society</i> , 1987 , 109, 6953-6957	16.4	32
277	Only the copper(I) ion coordinated to the .pi.-system of the nitrile group activates upon collision carbon-hydrogen and carbon-carbon bonds of nitriles. <i>Organometallics</i> , 1987 , 6, 2450-2451	3.8	21
276	The CH ₂ ⁺ dication: Metastable or not? A combined theoretical and experimental investigation. <i>Chemical Physics Letters</i> , 1987 , 142, 147-152	2.5	22
275	On the unimolecular loss of acetylene from metastable C ₁₁ H ₉ ⁺ ions. <i>Organic Mass Spectrometry</i> , 1987 , 22, 248-250		3
274	Gas-phase derivatization of [C ₃ H ₅] ⁺ ions using tandem mass spectrometry methods A ¹³ C labelling study. <i>Organic Mass Spectrometry</i> , 1987 , 22, 254-258		13
273	Sequencing of Tentoxin by Using Fast-Atom-Bombardment (FAB)/High-Resolution (HR)/Tandem Mass Spectrometry (MSMS). Scope and Limitation of a Novel Strategy. <i>Helvetica Chimica Acta</i> , 1987 , 70, 489-498	2	17
272	CO ₂ Elimination from Vinylene Carbonate Radical Anions and Charge Reversal in C ₂ H ₂ O ₂ ⁻ : Reactions Involving the Radical Anion and Cation of Oxirene?. <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 140-142		7
271	Thermolysis of NH ₄ HCO ₃ – Simple Route to the Formation of Free Carbonic Acid (H ₂ CO ₃) in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 354-355		73
270	The Generation and Characterization of Molecules by Neutralization-Reionization Mass Spectrometry (NRMS). New Analytical Methods (33). <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 805-815		196
269	CO ₂ -Abspaltung aus Vinylencarbonat-Radikalanionen und Ladungsumkehr bei C ₂ H ₂ O ₂ ⁻ : Reaktionen zum Radikalanion und -kation von Oxiren?. <i>Angewandte Chemie</i> , 1987 , 99, 153-155	3.6	4
268	Thermolyse von NH ₄ HCO ₃ – ein einfacher Weg zur freien Kohlensäure H ₂ CO ₃ in der Gasphase. <i>Angewandte Chemie</i> , 1987 , 99, 352-353	3.6	30
267	Erzeugung und Charakterisierung von Molekülen durch Neutralisations-Reionisations-Massenspektrometrie (NRMS). <i>Angewandte Chemie</i> , 1987 , 99, 829-839	3.6	62
266	The mechanism of methyl loss from ionized methoxypentamethyldisilane: anchimeric assistance versus direct bond cleavage.. <i>Journal of Organometallic Chemistry</i> , 1987 , 336, 105-113	2.3	9
265	On the structure of the C ₂ H ₄ O ₂ neutrals (acetic acid versus 1,1-dihydroxyethene) generated from ionized n-hexanoic acid and n-butyl acetate in the gas phase. Implications for the mechanism of the McLafferty rearrangement. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 81, 217-225		24
264	The reaction of linear nitriles with transition metal ions M ⁺ (M = Fe, Co, Ni) in the gas phase. Does the back-bonding ability of the metal ions govern the geometry of the RCN/M ⁺ complexes and what is the effect on the oxidative addition of internal CH bonds?. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 79, 287-294		24

- 263 On the role of ion/dipole complexes in the isomerization/dissociation reactions of ionized acetic acid and its enol in the gas phase. An ab initio molecular orbital study. *International Journal of Mass Spectrometry and Ion Processes*, **1987**, 79, 295-310 19
- 262 Gas-phase dissociations of ionized methyl isopropyl ether. A case for ion / neutral complexes?. *International Journal of Mass Spectrometry and Ion Processes*, **1987**, 76, 117-119 11
- 261 Fast atom bombardment as a convenient means to generate metal ion complexes in the gas phase. *International Journal of Mass Spectrometry and Ion Processes*, **1987**, 76, R1-R6 33
- 260 Experimental and theoretical evidence for the generation of a stable hydrazine dication in the gas phase. *International Journal of Mass Spectrometry and Ion Processes*, **1987**, 77, R3-R6 9
- 259 Experimental and Theoretical Studies of Small Organic Dications, Molecules with Highly Remarkable Properties **1987**, 413-465 21
- 258 CNH₂⁺: Laboratory generation of a proposed interstellar species. *Chemical Physics Letters*, **1986**, 132, 69-71 2.5 7
- 257 Ab initio molecular orbital studies of CH₂O₂+2 isomers. *Chemical Physics Letters*, **1986**, 125, 443-446 2.5 7
- 256 Study of ion structures produced by the reaction of 2-propyl cations with water and methanol; covalently bound v. Hydrogen-bridged adducts. *Organic Mass Spectrometry*, **1986**, 21, 665-671 40
- 255 Experimental and theoretical studies on the mechanism of 1,2-migration of vinyl and formyl substituents in free radicals. *Chemische Berichte*, **1986**, 119, 3528-3535 16
- 254 Hydroxyacetylene: Generation and Characterization of the Neutral Molecule, Radical Cation and Dication in the Gas Phase. *Angewandte Chemie International Edition in English*, **1986**, 25, 282-284 37
- 253 Aminoacetylene and Its Mono- and Dication Identification of Potentially Interstellar Molecules. *Angewandte Chemie International Edition in English*, **1986**, 25, 827-828 24
- 252 Unequivocal structure assignment of C- versus N-alkylated amino acids using fast atom bombardment/tandem mass spectrometry. *Biological Mass Spectrometry*, **1986**, 13, 641-2 8
- 251 Hydroxyacetylen: Erzeugung und Charakterisierung des Neutralmoleküls, Radikalkations und Dikations in der Gasphase. *Angewandte Chemie*, **1986**, 98, 275-276 3.6 25
- 250 Massenspektrometrischer Nachweis von Aminoacetylen sowie seinem Mono- und Dikation. *Angewandte Chemie*, **1986**, 98, 834-835 3.6 2
- 249 Theoretical Investigations on Fluorine-Substituted Ethylene Dications C₂H_nF_{4-n}²⁺ (n = 0-4). *Journal of Computational Chemistry*, **1986**, 7, 406-416 3.5 15
- 248 Sequenzierung von Thiazolaminosäuren enthaltenden Cyclopentapeptiden (Dolastatin 3) durch FAB/MSMS. *Liebigs Annalen Der Chemie*, **1986**, 1986, 1940-1949 4
- 247 A time-resolved study of the methyl elimination from ionized homoadamantane in combination with ²H- and ¹³C-labelling. *International Journal of Mass Spectrometry and Ion Processes*, **1986**, 73, 167-174 1
- 246 A quantum chemical investigation of the unimolecular chemistry of the formic acid radical cation and some of its isomers. *International Journal of Mass Spectrometry and Ion Processes*, **1986**, 73, 187-196 16

- 245 The CCl₄ dication revisited. *International Journal of Mass Spectrometry and Ion Processes*, **1986**, 72, 313-315 10
- 244 The gas-phase ion chemistry of crowded, triaryl-substituted keto/enol pairs. *International Journal of Mass Spectrometry and Ion Processes*, **1986**, 71, 287-302 5
- 243 The NH_n²⁺ (n = 1-4) dications. A theoretical investigation. *International Journal of Mass Spectrometry and Ion Processes*, **1986**, 68, 49-56 21
- 242 Intrinsic alkyl radical properties inferred from the study of unimolecular dissociations of gaseous carboxylic acid cation radicals. *Tetrahedron*, **1986**, 42, 6245-6251 2.4 33
- 241 Metallorganische Verbindungen der Lanthanoide. *Journal of Organometallic Chemistry*, **1986**, 306, 215-225.3 37
- 240 Sequence determination of N-terminal and C-terminal blocked peptides containing N-alkylated amino acids and structure determination of these amino acid constituents by using fast-atom-bombardment/tandem mass spectrometry. *FEBS Journal*, **1986**, 157, 209-16 29
- 239 Experimental and theoretical studies on SiH_n²⁺ dications (n = 1-5). *Journal of the Chemical Society Perkin Transactions II*, **1986**, 757-760 21
- 238 CH₃OC⁺: a long-sought molecule, predicted to exist by theory, identified. *Journal of the Chemical Society Chemical Communications*, **1986**, 1607 10
- 237 Remarkable rearrangement-dissociation processes of gaseous protonated methyl formate involving ion-dipole complexes. *Journal of the Chemical Society Chemical Communications*, **1986**, 728-730 6
- 236 Monitoring and optimization of deprotection reactions of peptides by direct sampling with fast atom bombardment mass spectrometry. *Journal of Organic Chemistry*, **1986**, 51, 483-486 4.2 16
- 235 Ab initio molecular orbital study of the CH₃N₂⁺ potential energy surface. *Journal of the American Chemical Society*, **1986**, 108, 5400-5403 16.4 10
- 234 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 16.4 64
- 233 On the formation of doubly charged cation radicals from acetyl and 1-hydroxyvinyl cations in the gas phase. A combined experimental and ab initio study. *International Journal of Mass Spectrometry and Ion Processes*, **1985**, 67, 171-177 6
- 232 Specific reciprocal methyl/hydrogen transfer reactions and hydrogen exchange processes between aryl rings in crowded ketone cation radicals. *International Journal of Mass Spectrometry and Ion Processes*, **1985**, 63, 289-304 4
- 231 Vinyl cation-induced cleavage of the oxygen-carbon bond in ortho-methoxy-substituted phenylacetylenes. *International Journal of Mass Spectrometry and Ion Processes*, **1985**, 66, 245-249 3
- 230 Combined experimental and ab initio molecular orbital studies on gaseous OH_n²⁺ species (n = 1-4). *International Journal of Mass Spectrometry and Ion Processes*, **1985**, 67, 305-306 30
- 229 Theoretical and experimental studies on the ground state potential energy surface of C₂H₄O dications. *International Journal of Mass Spectrometry and Ion Processes*, **1985**, 63, 59-82 20
- 228 Neue massenspektrometrische Methoden in der analytischen Praxis. *Fresenius Zeitschrift für Analytische Chemie*, **1985**, 320, 691-691

227	C-C-Spaltungen bei ionisierten Carbonsäuren als Umkehrung der [1,4]-Addition von Alkyl-Radikalen an protonierte flüchtige Carbonsäuren. Zur Rolle von Enol-Radikalkationen als reaktive Zwischenstufen bei Isomerisierungs-/Dissoziationsprozessen in der Gasphase. <i>Chemische Berichte</i> , 1985 , 118, 495-509	42
226	Cl ₂ C ⁺ Cl ⁻ , Cl ₂ C ⁺ Br ⁻ , and Br ₂ C ⁺ Br ⁻ by Gas-Phase Decarbonylation of CX ₃ COY ⁺ . <i>Angewandte Chemie International Edition in English</i> , 1985 , 24, 869-870	17
225	Rapid and efficient sequence determination of a 4 nmol sample of adipokinetic hormone I (AKH I) using FAB tandem mass spectrometry. <i>Biological Mass Spectrometry</i> , 1985 , 12, 623-5	13
224	Stable [C ₂ H ₇ O ₂] ⁺ isomers: Experimental and theoretical evidence for the existence of protonated peroxides and proton-bound dimers in the gas phase. <i>Organic Mass Spectrometry</i> , 1985 , 20, 665-673	18
223	Structures and stabilities of C ₆ H ₃ ⁺ isomers: an ab initio molecular orbital study. <i>Chemical Physics Letters</i> , 1985 , 113, 145-150	2.5 6
222	The structures and energies of SiH _n ²⁺ dications (n= 1B). <i>Journal of the Chemical Society Chemical Communications</i> , 1985 , 1119-1121	7
221	Experimental and ab initio molecular orbital studies on collisions of methane radical ion(1+) (CH ₄ ⁺ .cnddot.) and monoprotated methane (CH ₅ ⁺) with molecular oxygen: on the formation of methane (CH ₄ ²⁺) and methonium (CH ₅ ²⁺) dications and stable CH _n ⁻ species (n = 0-3). <i>Journal of the American Chemical Society</i> , 1985 , 107, 5049-5053	16.4 34
220	An ab initio molecular orbital study on rearrangement/fragmentation processes of isomeric CH ₃ N ⁺ .bul. ions. <i>Journal of the American Chemical Society</i> , 1985 , 107, 5046-5048	16.4 13
219	Experimental and ab initio molecular orbital studies on CH ₃ O ₂ ⁺ .cnddot. dications. <i>Journal of the American Chemical Society</i> , 1985 , 107, 2256-2260	16.4 9
218	Tandem mass spectrometry methodology for the sequence determination of cyclic peptides. <i>Journal of the American Chemical Society</i> , 1985 , 107, 6765-6769	16.4 67
217	Amino acid sequence of Manduca sexta adipokinetic hormone elucidated by combined fast atom bombardment (FAB)/tandem mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 133, 337-42	3.4 107
216	On the gas phase chemistry of ionized glycine and its enol. A combined experimental and ab initio molecular orbital study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 62, 99-117	21
215	Metastable radical cations of glycine methyl ester and its enol tautomer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 62, 119-123	3
214	Attempted generation of the CH ₂ FCH ₃ ⁺ ion via electron impact-induced CO ₂ loss from methyl fluoroacetate. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 57, 135-139	5
213	On the formation of C ₂ H ₅ O ₂ ⁺ ions having the structure of hydroxy-protonated acetic acid. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 61, 87-95	11
212	Mass spectrometric investigation of acetylenic compounds. Part 29. On the gas phase isomerization of phenyl-substituted allyl and vinyl cations. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 57, 233-237	5
211	On the microscopic reversibility of unimolecular ethylene loss from gaseous C ₅ H ₉ ⁺ . Addition of allyl cations to ethylene in the gas phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 62, 233-235	1
210	Mechanism of keto-enol tautomerism of ionized vinyl alcohol versus acetaldehyde and their dissociation to C ₂ H ₃ O ⁺ and H ⁺ . An ab initio molecular orbital study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 59, 21-37	56

209	Novel stable ion/dipole complexes of HF and HCl with halocarbenes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 55, 319-322		5
208	On the origin of the different activation energies for hydrogen additions at the C and O centres of R ⁺ CO ⁺ ions (R = H, CH ₃): A theoretical interpretation. <i>Chemical Physics Letters</i> , 1984 , 105, 490-494	2.5	8
207	On the ethylene loss from ionized tetrahydrothiophene. <i>Organic Mass Spectrometry</i> , 1984 , 19, 344-344		1
206	Stereoisomeric fragment ions arising from decomposition of enol cation radicals of different internal energy content. <i>Organic Mass Spectrometry</i> , 1984 , 19, 617-622		4
205	Experimental evidence for the two-step nature of methyl loss from ionized dimethyl ether. <i>Organic Mass Spectrometry</i> , 1984 , 19, 642-642		7
204	Reactivity of CH ₂ XCH (X = Cl, Br) with Electrophiles and Nucleophiles in the Gas Phase, a Fourier Transform Ion Cyclotron Resonance Investigation. <i>Angewandte Chemie International Edition in English</i> , 1984 , 23, 733-734		20
203	Zur Reaktivität von CH ₂ XCH (X = Cl, Br) mit Elektrophilen und Nucleophilen in der Gasphase, eine FT-Ionencyclotronresonanz-Untersuchung. <i>Angewandte Chemie</i> , 1984 , 96, 694-695	3.6	4
202	Gasphasenchemie metastabiler Thiophen-Radikalkationen. <i>Chemische Berichte</i> , 1984 , 117, 3194-3204		3
201	Experimental and theoretical evidence for the existence of a stable ketene dication in the gas phase. <i>Journal of the Chemical Society Chemical Communications</i> , 1984 , 1679		4
200	Experimental and theoretical studies on the charge stripping from CH ₃ X ⁺ and CH ₂ XH ⁺ ions (X = F, Cl, Br, I, OH, SH, or NH ₂). <i>Journal of the Chemical Society Chemical Communications</i> , 1984 , 504		25
199	Theoretical and experimental studies on the tetrafluoroethylene dication. <i>Journal of the Chemical Society Chemical Communications</i> , 1984 , 1187		7
198	Carbonylation and valence isomerization of 1,3-dihomocubane derivatives by chlorodicarbonylrhodium dimer. <i>Journal of Organic Chemistry</i> , 1984 , 49, 971-976	4.2	6
197	Highly specific reciprocal methyl/hydrogen transfer reactions preceding some unimolecular dissociations of crowded enol cation radicals in the gas phase as examples for conformationally controlled processes. <i>Journal of the American Chemical Society</i> , 1984 , 106, 496-501	16.4	13
196	On the detailed pathway of the methyl loss from ionized methyl isobutyrate in the gas phase. <i>Journal of the American Chemical Society</i> , 1984 , 106, 1167-1168	16.4	21
195	Gas phase chemistry of novel cation radicals with carbene-type structures. <i>Journal of the Mass Spectrometry Society of Japan</i> , 1984 , 32, 3-16	0.2	18
194	Carbon Skeletal Rearrangements Via Pyramidal Carbocations 1984 , 267-286		6
193	Generation of the Tetraphenylcyclobutadiene Radical Cation by Ionizing Gas-Phase Decarbonylation. <i>Angewandte Chemie International Edition in English</i> , 1983 , 22, 51-52		5
192	Generation of the Phenyl Cation by Dissociative Ionization of a Dienynyl Bromide in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1983 , 22, 786-787		2

191	Erzeugung des Tetraphenylcyclobutadien-Radikalkations durch ionisierende Gasphasendecarbonylierung. <i>Angewandte Chemie</i> , 1983 , 95, 59-59	3.6	2
190	Gas-phase chemistry of collisionally activated ions. <i>Mass Spectrometry Reviews</i> , 1983 , 2, 77-148	11	254
189	Pseudo-einstufige C?C-Spaltungen beim Zerfall von ionisierten Carbonsäuren. Radikaltypische Reaktionen in der Massenspektrometrie. <i>Chemische Berichte</i> , 1983 , 116, 323-347		38
188	Kohlenstoff-Platzwechsel beim Cyclopentadien-Radikalkation in der Gasphase [ein massenspektrometrisches Analogon zur Licht-induzierten Umlagerung von Cyclopentadien. <i>Chemische Berichte</i> , 1983 , 116, 2015-2021		5
187	Werden beim Zerfall arylsubstituierter Cyclopentadienyl-Kationen pyramidale Strukturen durchlaufen?. <i>Chemische Berichte</i> , 1983 , 116, 2931-2935		1
186	A Fourier Transform Ion Cyclotron Resonance Study of the Structure of some Phenyl-substituted 2-Azaallenium Ions. <i>Chemische Berichte</i> , 1983 , 116, 3877-3883		13
185	On the formation of protonated acetic acid from ionized n-alkanoic acids in the gas phase. <i>Organic Mass Spectrometry</i> , 1983 , 18, 147-149		15
184	Stable C ₂ H ₅ X ⁺ (X=Cl, Br) radical cations of structure [CH ₃ CHXH ⁺]. Their energetics and dissociation characteristics. <i>Organic Mass Spectrometry</i> , 1983 , 18, 208-211		16
183	Further examples of skeletal rearrangements of the Wagner-Meerwein type in chemical ionization mass spectrometry: The case of [C ₆ H ₉] ⁺ ions. <i>Organic Mass Spectrometry</i> , 1983 , 18, 215-218		9
182	On the electron impact induced hydroxyl loss from o-nitrostyrene. <i>Organic Mass Spectrometry</i> , 1983 , 18, 568-571		7
181	Mass spectrometric characterization of the active sites of polymer-bound iridium complexes in transfer hydrogenation reactions. <i>Journal of Molecular Catalysis</i> , 1983 , 18, 105-108		2
180	Dissoziative Ionisierung von 2-trimethylsilyl-1-phenoxyethan. Nachweis des nicht-klassischen ethylen-trimethylsilanium-Ions in der Gasphase. <i>Journal of Organometallic Chemistry</i> , 1983 , 244, 319-328 ^{2,3}		9
179	[CH ₃ COH] ⁺ , the central intermediate in the isomerization/dissociation reactions of ionized vinyl alcohol. <i>Journal of the Chemical Society Chemical Communications</i> , 1983 , 1497-1499		17
178	Mechanism of carbon dioxide elimination from ionized methyl haloacetates in the gas phase. Formation of CH ₃ XCH ₂ ⁺ and CH ₃ XCHX ⁺ (X = Cl, Br) halonium radical ions. <i>Journal of the American Chemical Society</i> , 1983 , 105, 2186-2193	16.4	22
177	Absorption spectra and photochemical rearrangements of chlorostyrene and bromostyrene cations in solid argon at 20 K. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 1295-1300		3
176	Radikalkationen von Carben/Dipolkomplexen. <i>Nachrichten Aus Der Chemie</i> , 1983 , 31, 451-454		23
175	Zur intermediären Existenz von Ethylenfluoronium-Ionen in der Gasphase/ On the Intermediary Existence of Gaseous Ethylen Fluoronium Ions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1983 , 38, 635-638	1	8
174	Ab initio molecular orbital calculations on the interconversion of allene and propyne cation radicals and the mechanism for hydrogen loss from C ₃ H ₄ ⁺ . <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 52, 131-138		32

173	Eine neue, effiziente Synthese von [1,3- ¹³ C ₂]-Malonsäure-diethylester. <i>Synthesis</i> , 1982 , 1982, 587-588	2.9	11
172	Absorption spectra and photochemical rearrangements of 1-, 2-, and 3-chlorocycloheptatriene and 7-chloronorborene cations in solid argon. <i>The Journal of Physical Chemistry</i> , 1982 , 86, 3714-3721		5
171	Eliminierung von Aceton und Bildung von protoniertem Aceton bei der chemischen Ionisation von [2.2.6.6]-Tetramethylcyclohexanon/ Elimination of Acetone and Formation of Protonated Acetone from [2,2,6,6]-Tetramethylcyclohexanone under the Condition of Chemical Ionisation. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1982 , 37, 1169-1173	1	2
170	Protonkatalysierte Wasser-Abspaltung aus 1-Dekalon und 8-Methyl-1-dekalon in der Gasphase. Verlust der stereochemischen Integrität der cis/trans-Ringverknüpfung bei [MH] ⁺ -Ionen / Proton Catalyzed Water Elimination from 1-Decalol and 8-Methyl-1-Decalol in the Gas Phase. Loss of the Stereochemical Integrity of the cis/trans Ring Connection in [MH] ⁺ Ions	1	
169	Neutrale und ionische Keto/Enolautomere: Zum Ursprung der Stabilitätsumkehr und zu ungewöhnlichen Substituenten-Effekten / Neutral and Ionic Keto/Enol Tautomers: On the Origin of Stability Reversal and Unusual Substituent Effects. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1982 , 37, 1597-1601	1	15
168	Quantenmechanische Berechnungen zu pseudo-einstufigen (C-C)-Spaltungen bei Radikalkationen von Carbonsäuren / Quantum Mechanical Calculations on Pseudo-One-Step Cleavages of Carbonic Acid Cation Radicals. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1982 , 37, 255-260	1	10
167	The calculated structures of the C ₄ H ₈ NO ⁺ cations resulting from the unimolecular gas-phase dissociation (CH ₃) ₂ NCOCH ₂ X ⁺ → C ₄ H ₈ NO ⁺ + X ⁺ (X = Cl, NO ₂). <i>Journal of Computational Chemistry</i> , 1982 , 3, 251-259	3.5	2
166	Letters to the editor. <i>Organic Mass Spectrometry</i> , 1982 , 17, 151-153		6
165	Massenspektrometrische Untersuchung von Stickstoff-Verbindungen, XXXV. Phenylsubstituierte 2-Azaallenium-Ionen in der Gasphase. <i>Chemische Berichte</i> , 1982 , 115, 2626-2634		14
164	HF-CH: A Novel, Stable Ion-Dipole Complex. <i>Angewandte Chemie International Edition in English</i> , 1982 , 21, 528-533		12
163	MNDO-rechnungen zum mechanismus der H ₂ O-abspaltung aus protoniertem cyclohexanon in der gasphase. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982 , 44, 81-90		8
162	ab initio-Rechnungen zur relativen Stabilität der Neutrals, Radikalkationen und -anionen von Allen und Propin / ab initio Calculations on the Relative Stabilities of the Neutrals, Radical Cations and Anions of Allene and Propyne. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1982 , 37, 1499-1505	1	6
161	Site of Protonation in Gaseous Five-Membered Ring Systems C ₄ H ₄ X(X=NH,O,S,CH ₂). <i>Lecture Notes in Quantum Chemistry II</i> , 1982 , 229-236	0.6	4
160	Dissociative ionization of aryl-substituted vinyl bromides in the gas phase: experimental and computational evidence for the formation of stable .alpha.-arylvinylium cations both by direct means and by spontaneous exothermic isomerization of unstable isomeric ions. <i>Journal of the American Chemical Society</i> , 1981 , 103, 2770-2780	16.4	38
159	Phenyl-substituted cyclopropylidenemethyl and 1-cyclobutenyl cations in the gas phase. Unusual course of homopropargyl rearrangement. <i>Journal of Organic Chemistry</i> , 1981 , 46, 2806-2808	4.2	9
158	Elf stabile C ₅ H ₉ ⁺ -Kationen in der Gasphase. Zur dissoziativen Ionisierung von 31 isomeren C ₆ H ₉ Br-Verbindungen / Eleven Stable C ₅ H ₉ ⁺ Cations in the Gas Phase. On the Dissociative Ionization of 31 Isomeric C ₅ H ₉ Br Compounds. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1981 , 36, 1215-1220	1	5
157	Silyl-Assistierte Etherspaltung bei Radikalkationen von Hydroxylaminderivaten [1] / Silyl-Assisted Ether Cleavage in Radical Cations of Hydroxylamine Derivatives [1]. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1981 , 36, 771-774	1	4
156	Frontorbitale und 1,2-Hydridwanderungen in Carbeniumionen/ Frontier Orbitals and 1,2-Hydrogen Shifts in Carbenium Ions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1981 , 36, 797-801	1	12

155	Zur McLafferty-Umlagerung bei Radikalkationen von Phenylpyridylalkanonen/ On the McLafferty Rearrangement of Ionized Phenyl Pyridyl Alkanones. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1981 , 36, 865-877	1	1
154	Radical eliminations from gaseous cation radicals via multistep pathways □The concept of Bidden□hydrogen rearrangements 1981 , 1-31		45
153	Tandem□Massenspektrometrie. <i>Nachrichten Aus Der Chemie</i> , 1981 , 29, 687-694		20
152	Nicht-ergodisches Verhalten angeregter Radikationen in der Gasphase. <i>Angewandte Chemie</i> , 1981 , 93, 824-825	3.6	11
151	Pyramidale Carbokationen. <i>Angewandte Chemie</i> , 1981 , 93, 1046-1059	3.6	24
150	Massenspektrometrische Untersuchung von Stickstoffverbindungen, XXXI(1,2) Experimentelle und theoretische Untersuchungen zur dissoziativen Ionisierung von Nitro- und Halogen substituierten Acetamiden. Pseudo-einstufige Zerfallsprozesse von Radikalkationen in der		15
149	Entartete Isomerisierung via Kohlenstoff-Platzwechsel beim Cyclopentyl-Kation in der Gasphase. Experimenteller und theoretischer Nachweis der Existenz eines pyramidalen C ₅ H-Kations bei der unimolekularen Ethylen-Eliminierung. <i>Chemische Berichte</i> , 1981 , 114, 2808-2824		20
148	Zur Kohlenstoff-□Equilibrierung in cyclischen C ₆ H-Kationen in der Gasphase und zum Mechanismus der unimolekularen Ethylen-Abspaltung. <i>Chemische Berichte</i> , 1981 , 114, 3878-3895		15
147	Non-Ergodic Behavior of Excited Radical Cations in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1981 , 20, 792-793		36
146	Pyramidal Carbocations. <i>Angewandte Chemie International Edition in English</i> , 1981 , 20, 991-1003		43
145	Fragmentation of the protonated stereoisomers of 5,7-Undecanediol and its bis(trimethylsilyl) ether under conditions of isobutane chemical ionization. <i>Organic Mass Spectrometry</i> , 1981 , 16, 37-44		11
144	Gaseous alkyne ions. <i>Organic Mass Spectrometry</i> , 1981 , 16, 361-371		23
143	Unimolecular ethyl loss from metastable ¹³ C labelled [C ₅ H ¹⁰ O] ⁺ ions with the oxygen on the middle carbon: An example for incomplete energy randomization?. <i>Organic Mass Spectrometry</i> , 1981 , 16, 421-422		8
142	Substituent effects on the McLafferty rearrangement of ionized 2-(aryl)ethyl arylacetates. <i>Organic Mass Spectrometry</i> , 1981 , 16, 553-554		1
141	The mass spectra of organic compounds. 6th Communication.. The Ring Opening Reaction of Isomeric Cyclanones C ₈ H ₁₄ Odocumentclass{article}pagestyle{empty}begin{document}\$ 1^{+} atop dot{} \$end{document} in metastable and collisional-activation spectra. <i>Helvetica Chimica Acta</i> , 1981 , 64, 2782-2790	2	7
140	pH-Dependent Fluorescence Spectroscopy, 8 [1]: Photochemical Reversible Ring Opening of 4-Phenylumbelliferone. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1980 , 84, 1115-1119		17
139	1-und 2-Methylallylkationen aus isomeren Vinylbromidradikalkationen / 1-and 2-Methylallyl Cations from Cation Radicals of Isomeric Vinyl Bromides. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1980 , 35, 1486-1487	1	2
138	Verborgene Wasserstoff-Wanderungen. <i>Nachrichten Aus Der Chemie</i> , 1980 , 28, 158-162		11

137	Zur reaktion von hexamethyldewarbenzol und hexamethylbenzol mit elektrophilen X+ (X = H, NO). <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1980 , 33, 291-297		7
136	Dissoziative Ringöffnung halogensubstituierter Methylcyclopropan-Radikalkationen in der Gasphase. <i>Chemische Berichte</i> , 1980 , 113, 1084-1094		20
135	Mechanisms of unimolecular fragmentations of odd-electron cations in the gas phase: The importance of intramolecular hydrogen migration for [odd]+ \rightarrow [even]+ transitions. <i>Organic Mass Spectrometry</i> , 1980 , 15, 491-501		61
134	Structure and formation of some [C ₄ H ₅ O ₂] ⁺ ions generated by radical losses in pseudo simple cleavage reactions. <i>Organic Mass Spectrometry</i> , 1980 , 15, 599-605		9
133	An Experimental and Theoretical Study of the Degenerate Carbon Skeleton Isomerization of the Cyclopentyl Cation in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1980 , 19, 485-487		7
132	Proton and Hydrogen Affinity of Furan and the Site of Protonation in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1980 , 19, 905-906		11
131	Experimenteller und theoretischer Nachweis der entarteten Isomerisierung via Kohlenstoff-Platzwechsel beim Cyclopentylkation in der Gasphase. <i>Angewandte Chemie</i> , 1980 , 92, 488-490	36	8
130	Protoniertes biphenyl durch chemische ionisation von benzol-struktur des [2M?H] ⁺ -ions von benzol. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1980 , 33, 285-290		6
129	Energy partitioning in mass spectrometric displacement reactions of dibromoalkanes. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1980 , 34, 387-390		1
128	Unimolecular water loss from protonated alcohols in the gas phase: The effect of ion/dipole interactions on the isomerizations of incipient carbocations. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1980 , 36, 285-289		16
127	MNDO-Rechnungen zur unimolekularen CO-Abspaltung aus Isomeren C ₃ H ₅ CO ⁺ -Ionen / MNDO Calculations on the Unimolecular CO Loss from Isomerie C ₃ H ₅ CO ⁺ -Ions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1980 , 35, 1031-1034	1	8
126	Methyl-Eliminierung aus dem metastabilen Homoadamantan-Radikalkation / Methyl Loss from Metastable Homoadamantane Cation Radical. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1980 , 35, 207-211	1	5
125	Experimental evidence for the existence of stable 1-cyclobutenyl and cyclopropylidenemethyl cations in the gas phase. <i>Journal of Organic Chemistry</i> , 1980 , 45, 3493-3496	4.2	11
124	Unimolecular equilibration of isomeric cation radicals. Mechanism of decomposition of ionized methyl isobutyrate in the gas phase. <i>Journal of the American Chemical Society</i> , 1980 , 102, 3736-3745	16.4	49
123	Stereochemische Effekte bei säurekatalysierten »Retro-Diels-Alder«-Reaktionen in der Gasphase □ Eine neue analytische Anwendung der Chemischen Ionisation. <i>Fresenius Zeitschrift Für Analytische Chemie</i> , 1979 , 295, 143-147		8
122	Energy barriers for isomerization of gaseous C ₃ H ₅ ⁺ ions. <i>Journal of the American Chemical Society</i> , 1979 , 101, 4681-4683	16.4	35
121	Experimental evidence for the existence of gaseous cyclobutyl cation. <i>Journal of the Chemical Society Chemical Communications</i> , 1979 , 261		8
120	Ringöffnung CO ⁺ - und COOCH ₃ ⁺ -substituierter Cyclopropane und CO-Eliminierung aus isomeren C ₃ H ₅ CO ⁺ -Ionen / Ring Opening of CO ⁺ and COOCH ₃ ⁺ -Substituted Cyclopropanes and CO Loss from Isomeric C ₃ H ₅ CO ⁺ Ions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1979 , 34, 488-494	1	10

119	Organische Schwefelverbindungen, XXXIII CO ₂ -Eliminierung aus Radikalkationen von Thiolethern in der Gasphase: Intramolekulare Sauerstoff-Wanderung vom (C+3/C+3)-Typ / Organic Sulfur Compounds, XXXIII CO ₂ Elimination from Gaseous Radical Cations of Thiol Esters: Intramolecular Oxygen Transfer of (C+3/C+3)-Type. <i>Zeitschrift Fur Naturforschung - Section B, Journal of Chemical Sciences</i> , 1979 , 34, 316-321	1	3
118	[1,3]-Hydroxylwanderung bei Radikalkationen von Allen- und Acetylenalkoholen/[1,3]-Hydroxyl Migration in Cation Radicals of Allene and Acetylene Alcohols. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1979 , 34, 1307-1319	1	8
117	Aktivierungsenergie und Mechanismus der intramolekularen Wasserstoff-Wanderung bei Radikal-Kationen von Keto/Enol-Tautomeren in der Gasphase. <i>Organic Mass Spectrometry</i> , 1979 , 14, 25-28		21
116	Struktur des [C ₃ H ₅] ⁺ -Ions im Cl(CH ₄)-Plasma. <i>Organic Mass Spectrometry</i> , 1979 , 14, 231-232		7
115	Nachweis einer Wagner-Meerwein-Ringkontraktion bei der Protoneninduzierten H ₂ O-Eliminierung aus Cyclohexan-1,2-diol. <i>Organic Mass Spectrometry</i> , 1979 , 14, 462-464		19
114	The Chemistry of Isolated Cations. <i>Angewandte Chemie International Edition in English</i> , 1979 , 18, 451-461		65
113	A Stable 2-Adamantyl Cation in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1979 , 18, 950-951		7
112	Ion Cyclotron Resonance Studies on tert-Butyl, 2-Norbornyl, and 1- and 2-Adamantyl Cations. <i>Angewandte Chemie International Edition in English</i> , 1979 , 18, 951-952		10
111	Adamantene in the Gas Phase. <i>Angewandte Chemie International Edition in English</i> , 1979 , 18, 952-953		8
110	Chemie isolierter Kationen. <i>Angewandte Chemie</i> , 1979 , 91, 484-495	3.6	32
109	Stabiles 2-Adamantylkation in der Gasphase. <i>Angewandte Chemie</i> , 1979 , 91, 1017-1018	3.6	5
108	Adamanten in der Gasphase. <i>Angewandte Chemie</i> , 1979 , 91, 1019-1020	3.6	7
107	Massenspektrometrische untersuchungen zu dyotropen umlagerungen. <i>Journal of Organometallic Chemistry</i> , 1978 , 161, 153-164	2.3	13
106	Isolation of a metalocyclic intermediate in [Ir(CO) ₃ Cl] ₂ -catalyzed rearrangement of 1,3-bishomocubane. <i>Tetrahedron Letters</i> , 1978 , 19, 3501-3504	2	1
105	Genese von C ₇ H ₈ ⁺ aus n-pentylbenzol-radikalkationen zwischen 10 ¹⁰ und 10 ¹¹ s: Eine fik-studie zu kompetitiven wasserstoff-umlagerungen [1]. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1978 , 28, 203-207		10
104	Chemical Ionization - A Mass-Spectrometric Analytical Procedure of Rapidly Increasing Importance. <i>Angewandte Chemie International Edition in English</i> , 1978 , 17, 424-439		96
103	Elimination of CH ₃ from the Radical Cation of Methyl Isobutyrate: Fast C-C Cleavage after Rate-Determining H-Migration. <i>Angewandte Chemie International Edition in English</i> , 1978 , 17, 678-679		10
102	Stereochemisch kontrollierte Cope-analoge Zerfallsprozesse von Sulfinylverbindungen im Massenspektrometer. <i>Organic Mass Spectrometry</i> , 1978 , 13, 179-180		2

101	The consecutive loss of two H ₂ O molecules from protonated 1,2- and 1,3- cyclohexanediols in the gas phase: An example for the incidence of skeletal rearrangement in chemical ionization mass spectrometry. <i>Organic Mass Spectrometry</i> , 1978 , 13, 697-704		30
100	Chemische Ionisation in stark Bedeutung gewinnendes massenspektrometrisches Analysenverfahren. <i>Angewandte Chemie</i> , 1978 , 90, 449-469	3.6	66
99	CH ₃ -Eliminierung aus dem Radikalkation von Isobuttersäure-methylester: Schnelle C-C-Spaltung nach geschwindigkeitsbestimmender H-Wanderung. <i>Angewandte Chemie</i> , 1978 , 90, 724-725	3.6	5
98	Some newer aspects of mass spectrometric ortho effects 1978 , 231-263		93
97	Potential energy profile for gas-phase, unimolecular reactions of ionized acetic acid and its enol. The barrier to a 1,3-hydrogen migration. <i>Journal of the American Chemical Society</i> , 1978 , 100, 7052-7055	16.4	28
96	Keto-Enol-Tautomerie von Radikal-Kationen in der Gasphase. <i>Nachrichten Aus Der Chemie</i> , 1978 , 26, 792-798		9
95	Massenspektrometrische Untersuchung organischer Stickstoffverbindungen, XXIX1 Elektronenstoßinduzierte 1.1-Eliminierung von Nitrenen aus silylierten Hydroxylaminderivaten / Mass Spectrometric Investigation of Organic Nitrogen Compounds, XXIX1 Electron Impact Induced 1.1-Elimination of Nitrenes from Silylated Hydroxylamine Derivates	1	7
94	Massenspektrometrische Untersuchungen zur Genese von [MMe] [M-Et] [C ₇ H ₇] ⁺ und [C ₇ H ₈] ⁺ aus n-Butyl- und n-Pentylbenzol: Zeitabhängige Nachbargruppeneffekte, Isomerisierungen und kompetitive Wasserstoff-Umlagerungen / Mass Spectrometric Investigations on the Formation of [MMe] [M-Et] [C ₇ H ₇] ⁺ and [C ₇ H ₈] ⁺ from n-Butyl and n-Pentyl Benzenes: Time Dependent	1	13
93	Isomerization of linear octene cations in the gas phase. <i>Journal of the American Chemical Society</i> , 1977 , 99, 6359-6365	16.4	40
92	Isomerization of hydrocarbon ions. 7. Ring opening reactions in cycloalkane molecular ions. A collisional activation and field ionization kinetic study. <i>Journal of the American Chemical Society</i> , 1977 , 99, 1716-1721	16.4	37
91	Einfluß der Lebensdauer auf die Ethylen-Eliminierung aus Nichtterminalen Kohlenstoffpositionen bei Isomeren C ₁₁ H ₁₅ ⁺ -Ionen in der Gasphase / On the Influence of Life Time on the Ethylene Elimination from Nonterminal Carbon Positions of Isomeric Gaseous C ₁₁ H ₁₅ ⁺ Ions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1977 , 32, 293-295	1	1
90	Organische Schwefelverbindungen, XXIV1,2 Kettenlängen-Effekte bei massenspektrometrischen Zerfällen von Dithiocarbonsäure-S,S'-di-p-tolyestern / Organosulfur Compounds, XXIV1,2 Chain Length Effects in Mass Spectroscopic Decompositions of S,S'-di-p-tolylbis(thioates).	1	0
89	2-Vinyl-1,3-dioxolenium- und 4-Methyl-oxonium-Spezies aus Ethylenacetalderivaten via Elektronenstoßionisation / Electron Impact Induced Formation of 2-Vinyl-1,3-dioxolenium- and 4-Methyl-oxonium Species from Ethylenacetal Derivatives. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1977 , 32, 464-467	1	3
88	HX-Eliminierung (X = OH, NH ₂) aus primären phenylsubstituierten Alkoholen und Aminen: Indiz für interne Solvatisierung von Radikalkationen in der Gasphase oder Resultat einer selektiven Aktivierung von CH-Bindungen? / HX-Elimination (X = OH, NH ₂) from Primary Phenylsubstituted Alcohols and Amines: a Probe for Internal Solvation of Gaseous Radical Cations or the Result of a	1	3
87	Durch wasserstoff-transfer induzierte radikal-eliminierungen aus ortho-substituierten benzoessäuremethylestern. <i>Tetrahedron</i> , 1977 , 33, 357-362	2.4	16
86	Stabile -Ionen in der Gasphase eine CA-Studie. <i>Organic Mass Spectrometry</i> , 1977 , 12, 213-215		4
85	Entropische und energetische Effekte bei der Bildung cyclischer Oxonium-, Sulfonium- und Bromonium-Ionen aus substituierten Phenoxyalkanen. <i>Organic Mass Spectrometry</i> , 1977 , 12, 391-394		4
84	Notiz zur elektronenstoßinduzierten Ringkontraktion von Cycloalkanonen und zur Struktur der -Ionen. <i>Organic Mass Spectrometry</i> , 1977 , 12, 470-472		5

83	Notiz zur protonenkatalysierten Gasphasencyclisierung von N-Benzoyl- α -Aminosäuremethylestern. <i>Organic Mass Spectrometry</i> , 1977 , 12, 477-478		4
82	Unimolekulare CH ₃ -, CH ₄ -, C ₂ H ₄ - und C ₃ H ₄ -Eliminierungen aus alkin- und arylsubstituierten Isopropylkationen in der Gasphase. <i>Organic Mass Spectrometry</i> , 1977 , 12, 549-556		4
81	Regiospezifische Wasser-Eliminierung aus stereo- und konstitutionsisomeren Hydroxymethyl- β -Ketalolen durch chemische Ionisation. <i>Organic Mass Spectrometry</i> , 1977 , 12, 566-568		12
80	Massenspektrometrische Untersuchung organischer Stickstoffverbindungen. XXVIII Intramolekulare Redoxreaktion bei ionisierten ortho-substituierten Nitroaromaten. <i>Organic Mass Spectrometry</i> , 1977 , 12, 569-572		6
79	Ber die Regioselektivität von Diensynthesen substituierter Chinone. <i>Chemische Berichte</i> , 1977 , 110, 2028-2045		19
78	Structure of gaseous C ₂ H ₄ O ₂ ⁺ ions formed by McLafferty rearrangement from aliphatic acids. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1976 , 1231-1234		17
77	Spektroskopische Untersuchungen, X. Elektronenstoßinduzierte SO- und CO ₂ -Eliminierungen aus N,N-Dimethyl-C-Arylsulfonylformamiden / Spectroscopic Investigations, X. Electron-impact Induced SO- and CO ₂ -Elimination from N,N-Dimethyl-C-arylsulfonylformamides. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976 , 31, 257-260	1	1
76	Notizen: Zur elektronenstoßinduzierten Isomerisierung und Fragmentierung von Butencarbonylremethylestern.. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976 , 31, 1013-1014	1	12
75	Zum Mechanismus der Substituentenwechselwirkung bei der elektronenstoßinduzierten Ether-Spaltung in para-substituierten Methoxymethylaromaten / On the Mechanism of Substituent Interaction During the Electron Impact Induced Ether Cleavage from para-Substituted Methoxymethyl Benzenes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976 , 31, 1015-1018	1	2
74	Stoßaktivierungsmassenspektrometrie von Monoterpenen und Isomerisierung von C ₇ H ₉ ⁺ -Ionen in der Gasphase.. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976 , 31, 935-940	1	11
73	Mechanismen der elektronenstoßinduzierten Methanoleliminierung aus ortho- und para-substituierten Benzoesäuremethylestern / Mechanisms of Electron Impact Induced Elimination of Methanol from ortho- and para-Substituted Benzoic Acid Methyl Ester. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976 , 31, 870-875	1	10
72	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		213
71	Electron Impact Induced Ether Cleavage by Anchimeric Participation of Silyl and Germyl Groups. <i>Angewandte Chemie International Edition in English</i> , 1976 , 15, 705-706		10
70	Stoßaktivierungsmassenspektrometrie - eine neue Sonde zur Strukturbestimmung von Ionen in der Gasphase. <i>Angewandte Chemie</i> , 1976 , 88, 589-599	3.6	116
69	Elektronenstoßinduzierte Etherspaltung durch anchimere Beteiligung von Silyl- und Germylgruppen. <i>Angewandte Chemie</i> , 1976 , 88, 726-728	3.6	13
68	Elektronenstoßinduzierte Fragmentierung von Acetylenverbindungen, XVIII. Struktur und Reaktivität von C ₉ H ₇ ⁺ -Ionen in der Gasphase. <i>Justus Liebigs Annalen Der Chemie</i> , 1976 , 1976, 1889-1902		4
67	Notiz zur intramolekularen Wasserstoffbrückenbildung bei der Chemischen Ionisation von Ungesättigten C ₄ -1,4-Diolen. <i>Organic Mass Spectrometry</i> , 1976 , 11, 219-221		9
66	Elektronenstoßinduzierte Fragmentierung von Acetylenverbindungen. XIV Wasser-Eliminierung Durch OH/OH-Wechselwirkung bei β -DIEN-Diolen. <i>Organic Mass Spectrometry</i> , 1976 , 11, 313-318		3

- 65 Pilzpigmente. XXV. Massenspektrometrische Untersuchung Polyisoprenoider Ansabenzochinone. *Organic Mass Spectrometry*, **1976**, 11, 472-478 8
- 64 Konstitutionelle Effekte bei der Chemischen Ionisationsmassenspektrometrie di- und Trifunktioneller Diterpene. *Organic Mass Spectrometry*, **1976**, 11, 652-658 5
- 63 NH₃-Eliminierungen aus 2-Ethoxybenzoesäureamid und 2-Ethoxybenzylamin Als Weitere Beispiele [Komplexer] Ortho-Effekte. *Organic Mass Spectrometry*, **1976**, 11, 773-779 13
- 62 Äthylen-Eliminierung aus dem [C₇H₁₁]⁺-Ion des 4.4-Dimethylpentin-(2)-ylchlorids-(1). *Organic Mass Spectrometry*, **1976**, 11, 783-785 4
- 61 Massenspektrometrische Untersuchungen zu Dyotropen Umlagerungen. *Organic Mass Spectrometry*, **1976**, 11, 989-994 9
- 60 Stossinduzierte acetylen-eliminierung aus ¹³C-markierter hexadien-(1.3)-in-(5). Ein Beitrag zur Struktur langlebiger C₆H₆⁺-Ionen. *International Journal of Mass Spectrometry and Ion Physics*, **1976**, 21, 15-20 9
- 59 Massenspektrometrische untersuchung organischer stickstoffverbindungen - XVI: Elektronenstossinduzierte fragmentierungen von Pyridyl-phenylalkanonen und Phenyl-pyridylalkanen. *Journal of Heterocyclic Chemistry*, **1975**, 12, 633-638 1.9 6
- 58 Massenspektrometrische Untersuchungen über ortho-Effekte und verwandte Umlagerungen bei Benzoe- und 2,2'-Diphenylätherderivaten. *Justus Liebigs Annalen Der Chemie*, **1975**, 1975, 62-74 8
- 57 Stereochemische effekte bei der elektronenstoß-induzierten fragmentierung von threo- und erythro-1.2-diphenyl-1.2-bis-(trimethylsiloxy)ethan. *Organic Mass Spectrometry*, **1975**, 10, 158-159 7
- 56 MASSENSPEKTROMETRISCHE UNTERSUCHUNGEN ZUR STRUKTUR STABILER [m-CH₂COOH₃]⁺-IONEN AUS DICARBONSÄUREDIMETHYLESTERN. *Organic Mass Spectrometry*, **1975**, 10, 384-389 16
- 55 MASSENSPEKTROMETRISCHE UNTERSUCHUNG ZUM MECHANISMUS DER METHYLABSPALTUNG AUS VICINALEN METHYLFURANCARBONSÄURE-METHYLESTERN. *Organic Mass Spectrometry*, **1975**, 10, 469-472 8
- 54 MASSENSPEKTROMETRISCHE UNTERSUCHUNG ORGANISCHER STICKSTOFFVERBINDUNGEN XVII. Neue Aspekte zum Mechanismus der Methyleliminierung aus ungesättigten carbonsäureamiden. *Organic Mass Spectrometry*, **1975**, 10, 522-526 5
- 53 MASSENSPEKTROMETRISCHE UNTERSUCHUNG ORGANISCHER STICKSTOFFVERBINDUNGEN XVIII. MECHANISMUS DER NH₃-ELIMINIERUNG AUS 3-PHENYL-PROPYL- UND 5-PHENYLPENTYLAMIN. *Organic Mass Spectrometry*, **1975**, 10, 595-605 14
- 52 Stossaktivierungsspektren von 2-Alkoxybenzoesäuremethylestern. *Organic Mass Spectrometry*, **1975**, 10, 752-760 10
- 51 Massenspektrometrische Untersuchung ungesättigter Carbonylverbindungen: Radikal-eliminierung durch Spaltung oder Cyclisierung?. *Organic Mass Spectrometry*, **1975**, 10, 1125-1134 3
- 50 Untersuchungen zum Einfluss der Stereochemie auf die Elektronenstossinduzierte Retro-Diels-Alder-Reaktion. *Organic Mass Spectrometry*, **1975**, 10, 1141-1146 10
- 49 Elektronenstossinduzierte 1.1-Eliminierung aus Phenylhydroxylamin-derivaten. *Organic Mass Spectrometry*, **1975**, 10, 1160-1163 9
- 48 1,2,3-Tricarbonylverbindungen, X. Zur Umsetzung von Diaryldiazomethanen mit cyclischen 1,2-Di- und 1,2,3-Tricarbonylverbindungen. *Chemische Berichte*, **1975**, 108, 322-327 4

47	Natürlich vorkommende Terpen-Derivate, XLVII. Über einen neuen Sesquiterpentyp aus <i>Tanacetum balsamita</i> L. ssp. <i>balsamitoides</i> (Schultz Bip.) Grierson. <i>Chemische Berichte</i> , 1975 , 108, 1369-1372		9
46	Spektroskopische Untersuchungen, IX./Spectroscopic Investigations, IX.. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1975 , 30, 259-262	1	13
45	Natürlich vorkommende Terpen-Derivate, XXIX. Über zwei neue Sesquiterpene aus <i>Ptilostemon chamaepeuce</i> (L.) Less. <i>Chemische Berichte</i> , 1974 , 107, 650-653		15
44	Natürlich vorkommende Terpen-Derivate, XXXI. Über neue Nerolidol-Derivate. <i>Chemische Berichte</i> , 1974 , 107, 1074-1080		12
43	Massenspektrometrische Untersuchung von Amidinen, VII Intramolekulare Wechselwirkungen bifunktionaler Gruppen bei der elektronenstoßinduzierten Fragmentierung von Piperidinen und Piperideinen. <i>Chemische Berichte</i> , 1974 , 107, 1081-1091		12
42	Natürlich vorkommende Terpen-Derivate, XL. Einfluß von Konstitution und Konfiguration auf die elektronenstoßinduzierte Fragmentierung trifunktionaler Diterpene. <i>Chemische Berichte</i> , 1974 , 107, 2905-2911		5
41	Organische Schwefelverbindungen, VIII. Bildung von Thiophenen durch Pyrolyse von Dihydrothiopyranen, Reaktionen der Diels-Alder-Addukte aus Thiofluorenon und 1,3-Butadienen in der Hitze und unter Elektronenstoß <i>Chemische Berichte</i> , 1974 , 107, 2931-2937		16
40	Elektronenstoßinduzierte Fragmentierung von Acetylenverbindungen VIII.: Struktur der stabilen und instabilen Ionen $[C_9H_9]^+$ aus isomeren C_9H_{10} -Kohlenwasserstoffen. <i>Organic Mass Spectrometry</i> , 1974 , 8, 25-29		15
39	Organische Schwefelverbindungen IV: Elektronenstoßinduzierte Redoxreaktion von ortho-Nitrothiobenzoessäure-S-p-tolylester. <i>Organic Mass Spectrometry</i> , 1974 , 8, 317-321		22
38	Massenspektrometrische Untersuchung von Amidinen: III Intramolekulare Nucleophile Substitution bei der Methyl-Abspaltung aus Crotonsaurepiperidid und Vinyllogenen Derivaten. <i>Organic Mass Spectrometry</i> , 1974 , 9, 84-87		7
37	Massenspektrometrische Untersuchung von Amidinen. IV Nachbargruppenbeteiligung Bei der Elektronenstoßinduzierten Fragmentierung von O-Nitrobenzoesäurepiperidid. <i>Organic Mass Spectrometry</i> , 1974 , 9, 283-286		22
36	Massenspektrometrische Untersuchung von Amidinen. VI Mechanismus der Methyl-Abspaltung aus Crotonsäurepiperidid. <i>Organic Mass Spectrometry</i> , 1974 , 9, 287-288		3
35	Elektronenstoßinduzierte Fragmentierung von Acetylenverbindungen. IX Struktur der stabilen $[C_9H_{11}]^+$ -Ionen aus isomeren C_9H_{11} -Chloriden. <i>Organic Mass Spectrometry</i> , 1974 , 9, 321-323		2
34	Elektronenstoßinduzierte Fragmentierung von Acetylenverbindungen. XI Energetische Betrachtungen zum Massenspektrometrischen Zerfall einiger offenkettiger und isomere cyclischer Kohlenwasserstoffe. <i>Organic Mass Spectrometry</i> , 1974 , 9, 324-331		14
33	Elektronenstoßinduzierte Fragmentierung von Acetylenverbindungen. XIII Acyclische $[C_7H_7]^+$ -Ionen als Intermediate bei der Acetylen-Eliminierung aus dem $[M-Cl]^+$ -Fragment von Heptin-(6)-Dien-(2.4)-ylchlorid-(I). <i>Organic Mass Spectrometry</i> , 1974 , 9, 332-334		9
32	Ungewöhnliche Methyl-Abspaltungen aus nicht endständigen Kohlenstoffpositionen bei p-Methylstyrol. <i>Organic Mass Spectrometry</i> , 1974 , 9, 343-345		0
31	Energetische Betrachtungen zur intramolekularen Solvatisierung von Ionen bei der elektronenstoßinduzierten Fragmentierung von Bis-(Trimethylsilyl)-ethern. <i>Organic Mass Spectrometry</i> , 1974 , 9, 567-569		7
30	Organische Schwefelverbindungen. IX Ringkontraktion statt Carben-Eliminierung von Neutralteilen bei der elektronenstoßinduzierten Fragmentierung von Thiaspirofuranonen. <i>Organic Mass Spectrometry</i> , 1974 , 9, 609-611		2

29	Notiz über die Elektronenstossinduzierte Fragmentierung 2H-Markierter Phenylsilane. <i>Organic Mass Spectrometry</i> , 1974 , 9, 622-625		5
28	Elektronenstossinduzierte Arylwanderungen bei 2.2-Disubstituierten 1.3-Dioxolen. <i>Organic Mass Spectrometry</i> , 1974 , 9, 660-664		4
27	Massenspektrometrische Untersuchung von Amidinen. VIII. Vinyllogische Spaltung und Nachbargruppenbeteiligung bei der Fragmentierung von Piperidinderivaten und gesättigter Carbonsäuren. <i>Organic Mass Spectrometry</i> , 1974 , 9, 703-706		5
26	Massenspektrometrische Untersuchung von Bromiden: über den Einfluss der Radikalstabilität auf die Ringgröße Cyclischer Bromonium-Ionen. <i>Organic Mass Spectrometry</i> , 1974 , 9, 707-709		9
25	Elektronenstossinduzierte Cyclisierung Durch Nachbargruppenwechselwirkung bei N-(O-Nitrobenzyl)-Aminen. <i>Organic Mass Spectrometry</i> , 1974 , 9, 826-830		4
24	Massenspektrometrische Untersuchung von Amidinen. IX. Nachbargruppenwechselwirkung Statt Ringkontraktion bei der Fragmentierung von Carbonsäurepiperidinderivaten. <i>Organic Mass Spectrometry</i> , 1974 , 9, 831-836		3
23	Massenspektrometrische Untersuchung von Amidinen X. Notiz zum Mechanismus der H-Abspaltung aus N,N-Dimethylbenzamid. <i>Organic Mass Spectrometry</i> , 1974 , 9, 840-842		6
22	Massenspektrometrische Untersuchung Organischer Stickstoffverbindungen. XII. Übertragungen Durch Nachbargruppen-Wechselwirkung bei 2-bis-(N-Piperidyl)-Aromaten. <i>Organic Mass Spectrometry</i> , 1974 , 9, 988-997		8
21	Massenspektrometrische Untersuchung Organischer Stickstoffverbindungen. XIV. Mechanismus der Piperidin-Eliminierung aus N,N'-o-Xylylen-Dipiperidin. <i>Organic Mass Spectrometry</i> , 1974 , 9, 1223-1225		2
20	Massenspektrometrische Untersuchung von 2-Alkoxybenzoesäuremethylestern: Mechanismus der Alken-Eliminierung und Cyclisierungsreaktionen von Fragmenten Durch Nachbargruppenwechselwirkung. <i>Organic Mass Spectrometry</i> , 1974 , 9, 1226-1233		11
19	Massenspektrometrische untersuchung von amidinen - II (1): elektronenstossinduzierte fragmentierung von phenylacetat-aziridin-, -pyrrolidin- und -piperidin. <i>Tetrahedron Letters</i> , 1973 , 14, 3703-3706	2	5
18	Massenspektrometrische untersuchung von amidinen - V: über den einfluss der n-donorstärke auf die aktivierungs-energie der methyl-abspaltung aus crotonsäureamidinen. <i>Tetrahedron Letters</i> , 1973 , 14, 4583-4586	2	
17	Natürlich vorkommende Terpenderivate, XXV. Neue Diterpene aus <i>Hinterhubera imbricata</i> Cuatr.. <i>Chemische Berichte</i> , 1973 , 106, 2479-2484		5
16	Elektronenstossinduzierte Fragmentierung von Acetylenverbindungen IV: Mechanistische Betrachtungen zur Bildung des Benztropyliumkations aus den Chlormethyl-Naphthalinen und 1-Chlor-Phenyl-(5)-Penten-(2)-in-(4). <i>Organic Mass Spectrometry</i> , 1973 , 7, 23-28		14
15	Elektronenstossinduzierte Fragmentierung von Acetylenverbindungen V: Vergleich der Isomeren Naphthyl- und Phenyl-Pentinen-Alkohole. <i>Organic Mass Spectrometry</i> , 1973 , 7, 29-35		9
14	Elektronenstossinduzierte Fragmentierung von Acetylenverbindungen VI: Struktur und Bildungsenthalpie der Ionen [C ₁₁ H ₉] ⁺ und [C ₉ H ₇] ⁺ . <i>Organic Mass Spectrometry</i> , 1973 , 7, 395-399		19
13	Massenspektrometrische Untersuchung aromatischer Halogenide der Summenformel C ₉ H ₁₁ Cl: Mechanismus der Methyl-Abspaltung aus dem Ion [M - Cl] ⁺ . <i>Organic Mass Spectrometry</i> , 1973 , 7, 869-873		5
12	Elektronenstossinduzierte CH ₄ -Abspaltung aus dem Fragment [C ₇ H ₉] ⁺ von p-Methyl-1-phenylethanol-1. <i>Organic Mass Spectrometry</i> , 1973 , 7, 875-879		1

11	Massenspektrometrische Untersuchungen zur Ketenabspaltung aus Zimtalkohol. <i>Organic Mass Spectrometry</i> , 1973 , 7, 881-886		12
10	Elektronenstossinduzierte fragmentierung von polymethylbenzaldehydenII: Mechanismus der Methyl-Abspaltung aus dem Molekülion von Tri- und Pentamethylbenzaldehyden. <i>Organic Mass Spectrometry</i> , 1973 , 7, 1001-1003		3
9	Elektronenstossinduzierte fragmentierung von polymethylbenzaldehydenIII: Bildung und Zerfall des Formyltropylium-ions aus Dimethylbenzaldehyd. <i>Organic Mass Spectrometry</i> , 1973 , 7, 1005-1006		5
8	Massenspektrometrische Untersuchung von AmideneII Energetische Betrachtungen zur elektronenstossinduzierten Fragmentierung von Piperidin- und Piperidine- Amidene. <i>Organic Mass Spectrometry</i> , 1973 , 7, 1197-1202		8
7	Mechanismus der elektronenstossinduzierten Äthylenabspaltung aus dem Ion [C ₉ H ₁₁] ⁺ aus 2,5-Dimethylbenzylbromid. <i>Organic Mass Spectrometry</i> , 1973 , 7, 1211-1213		4
6	Elektronenstossinduzierte Fragmentierung von Trimethyl-Benzaldehyden. <i>Organic Mass Spectrometry</i> , 1972 , 6, 815-822		9
5	Massenspektrometrische untersuchung von benzylverbindungen und offenkettigen isomeren. <i>Tetrahedron Letters</i> , 1972 , 13, 1899-1904	2	6
4	Reactivity Concepts for Oxidation Catalysis: Spin and Stoichiometry Problems in Dioxygen Activation131-156		6
3	Gas-Phase Ion Chemistry of Silicon-Containing Molecules1105-1142		21
2	The generation of neutral and ionized allenes, cumulenes and heterocumulenes by electron impact189-222		4
1	Cationic Transition Metal Arene Interactions		2