Martin K Beyer

List of Publications by Year
in descending order

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190 papers	7,859 citations	76031 42 h-index	66518 82 g-index
205 all docs	205 docs citations	205 times ranked	6285 citing authors

#	Article	IF	Citations
1	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ₀ and CoQ₀H₂. ChemPhysChem, 2022, 23, e202100834.	1.0	2
2	Size-dependent H and H₂ formation by infrared multiple photon dissociation spectroscopy of hydrated vanadium cations, V⁺(H₂O)_n, n = 3â€“51. Physical Chemistry Chemical Physics, 2022, 24, 14699-14708.	1.3	4
3	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ ₀ and CoQ ₀ H ₂. ChemPhysChem, 2022, 23, e202200094.	1.0	0
4	Infrared Multiple Photon Dissociation Spectroscopy Confirms Reversible Water Activation in Mn⁺(H₂O)_n, n â‰ˆ 8. Journal of Physical Chemistry Letters, 2022, 13, 3269-3275.	2.1	6
5	Rearrangement and decomposition pathways of bare and hydrogenated molybdenum oxysulfides in the gas phase. Physical Chemistry Chemical Physics, 2022, 24, 16576-16585.	1.3	4
6	Toward Detection of FeH⁺ in the Interstellar Medium: Infrared Multiple Photon Dissociation Spectroscopy of Ar₂FeH⁺. Journal of Physical Chemistry Letters, 2022, 13, 5867-5872.	2.1	2
7	[Mo₃S₁₃]^{2â^’} as a Model System for Hydrogen Evolution Catalysis by MoS_x: Probing Protonation Sites in the Gas Phase by Infrared Multiple Photon Dissociation Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 5074-5077.	7.2	18
8	Microsolvation of Zn cations: infrared multiple photon dissociation spectroscopy of Zn⁺(H₂O)_n (n = 2â€“35). Physical Chemistry Chemical Physics, 2021, 23, 3627-3636.	1.3	8
9	Photochemistry and UV/vis spectroscopy of hydrated vanadium cations, V⁺(H₂O)_n, n = 1â€“41, a model system for photochemical hydrogen evolution. Physical Chemistry Chemical Physics, 2021, 23, 22251-22262.	1.3	14
10	Spectroscopy and photochemistry of copper nitrate clusters. Physical Chemistry Chemical Physics, 2021, 23, 9911-9920.	1.3	3
11	[Mo 3 S 13] 2â^’ als Modellsystem fÃ¼r die katalytische Wasserstoffentwicklung durch MoS x : Untersuchung der Protonierungsstellen in der Gasphase durch Infrarotâ€Mehrphotonendissoziationsspektroskopie. Angewandte Chemie, 2021, 133, 5133-5137.	1.6	1
12	Infrared spectroscopy of CO3â€¢â^’(H2O)1,2 and CO4â€¢â^’(H2O)1,2. Journal of Chemical Physics, 2021, 154, 084301.	1.2	4
13	Activation of a Copper Biscarbene Mechanoâ€Catalyst Using Singleâ€Molecule Force Spectroscopy Supported by Quantum Chemical Calculations. Chemistry - A European Journal, 2021, 27, 8723-8729.	1.7	6
14	Functionalization of Diamondâ€Like Carbon Surfaces to Access High Rupture Forces in Singleâ€Molecule Force Spectroscopy of Covalent Bonds. Chemistry Methods, 2021, 1, 271-277.	1.8	1
15	Proton transfer reactivity of molybdenum oxysulfide dianions [Mo2O2S6]2â€“ and [Mo2O2S5]2â€“: The role of Coulomb barriers. International Journal of Mass Spectrometry, 2021, 464, 116558.	0.7	4
16	Getting Ready for the Hydrogen Evolution Reaction: The Infrared Spectrum of Hydrated Aluminum Hydrideâ€“Hydroxide HAlOH⁺(H₂O)_nâ^’1</sub>, n=9â€“14. Angewandte Chemie - International Edition, 2021, 60, 16858-16863.	7.2	14
17	Auf zur Wasserstoffentwicklung: Das Infrarotâ€Spektrum von hydratisiertem Aluminiumhydridâ€Hydroxid HAlOH + (H 2 O) n â^’1 , n= 9â€“14. Angewandte Chemie, 2021, 133, 16994-16999.	1.6	2
18	Asymmetric Solvation of the Zinc Dimer Cation Revealed by Infrared Multiple Photon Dissociation Spectroscopy of Zn2+(H2O)n (n = 1â€“20). International Journal of Molecular Sciences, 2021, 22, 6026.	1.8	3

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19	Frontispiz: Auf zur Wasserstoffentwicklung: Das Infrarotâ€Spektrum von hydratisiertem Aluminiumhydridâ€Hydroxid HAlOH⁺(H₂O)_{nâ^1}, n=9â€“14. Angewandte Chemie, 2021, 133, .	1.6	0
20	Frontispiece: Getting Ready for the Hydrogen Evolution Reaction: The Infrared Spectrum of Hydrated Aluminum Hydrideâ€“Hydroxide HAlOH⁺(H₂O)_{nâ^1}, n=9â€“14. Angewandte Chemie - International Edition, 2021, 60, .	7.2	2
21	Photochemical Hydrogen Evolution at Metal Centers Probed with Hydrated Aluminium Cations, Al⁺(H₂O)_n, n=1â€“10. Chemistry - A European Journal, 2021, 27, 16367-16376.	1.7	6
22	Infrared Multiple Photon Dissociation Spectroscopy of Hydrated Cobalt Anions Doped with Carbon Dioxide CoCO 2 (H 2 O) n â^ , n =1â€“10, in the Câ^O Stretch Region. Chemistry - A European Journal, 2020, 26, 1074-1081.	1.7	11
23	Infrared multiple photon dissociation spectroscopy of anionic copper formate clusters. Journal of Chemical Physics, 2020, 153, 184301.	1.2	5
24	Photochemical activation of carbon dioxide in Mg+(CO2)(H2O)0,1. Theoretical Chemistry Accounts, 2020, 139, 127.	0.5	8
25	Evidence for lactone formation during infrared multiple photon dissociation spectroscopy of bromoalkanoate doped salt clusters. Physical Chemistry Chemical Physics, 2020, 22, 12028-12038.	1.3	5
26	Aktivierung von Kohlenstoffdioxid an Metallzentren: Entwicklung des Ladungstransfers von Mgâ€‰^{.+} auf CO₂ in [MgCO₂(H₂O)_n]^{.+}, n=0â€“8. Angewandte Chemie, 2020, 132, 7537-7541.	1.6	0
27	UV/Vis Spectroscopy of Copper Formate Clusters: Insight into Metalâ€Ligand Photochemistry. Chemistry - A European Journal, 2020, 26, 8286-8295.	1.7	10
28	Carbon Dioxide Activation at Metal Centers: Evolution of Charge Transfer from Mgâ€‰^{.+} to CO₂ in [MgCO₂(H₂O)_n]^{.+}, n=0â€“8. Angewandte Chemie - International Edition, 2020, 59, 7467-7471.	7.2	24
29	Chemistry of NO x and HNO 3 Molecules with Gasâ€Phase Hydrated O .â^ and OH â^ Ions. Chemistry - A European Journal, 2020, 26, 7861-7868.	1.7	5
30	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	1.6	1
31	Pushing resolution in frequency and time: general discussion. Faraday Discussions, 2019, 217, 290-321.	1.6	1
32	Exotic systems: general discussion. Faraday Discussions, 2019, 217, 601-622.	1.6	0
33	Probing the Structural Evolution of the Hydrated Electron in Water Cluster Anions (H₂O)_n^{â€“}, n â‰¥ 200, by Electronic Absorption Spectroscopy. Journal of the American Chemical Society, 2019, 141, 18000-18003.	6.6	18
34	Structural Properties of Gas-Phase Molybdenum Oxide Clusters [Mo₄O₁₃]^{2â^}, [HMo₄O₁₃]^{â^}, and [CH₃Mo₄O₁₃]^{â^} Studied by Collision-Induced Dissociation. Journal of the American Society for Mass Spectrometry, 2019, 30, 1946-1955.	1.2	7
35	Electronic spectroscopy and nanocalorimetry of hydrated magnesium ions [Mg(H₂O)_n]⁺, n = 20â€“70: spontaneous formation of a hydrated electron?. Faraday Discussions, 2019, 217, 584-600.	1.6	20
36	Carbon-carbon bond formation in the reaction of hydrated carbon dioxide radical anions with 3-butyn-1-ol. International Journal of Mass Spectrometry, 2019, 435, 101-106.	0.7	6

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37	Infrared Spectroscopy of Sizeâ€Selected Hydrated Carbon Dioxide Radical Anions CO₂^{.â^'}(H₂O)_n (n=2â€“61) in the Câ^'O Stretch Region. Chemistry - A European Journal, 2019, 25, 10165-10171.	1.7	27
38	Mechanical Activation Drastically Accelerates Amide Bond Hydrolysis, Matching Enzyme Activity. Angewandte Chemie - International Edition, 2019, 58, 9787-9790.	7.2	37
39	Mechanische Aktivierung beschleunigt die Hydrolyse der Amidbindung drastisch, vergleichbar der AktivitÄt von Enzymen. Angewandte Chemie, 2019, 131, 9890-9894.	1.6	6
40	Release of Formic Acid from Copper Formate: Hydride, Protonâ€Coupled Electron and Hydrogen Atom Transfer All Play their Role. ChemPhysChem, 2019, 20, 1420-1424.	1.0	17
41	Decomposition of Copper Formate Clusters: Insight into Elementary Steps of Calcination and Carbon Dioxide Activation. ChemistryOpen, 2019, 8, 1453-1459.	0.9	11
42	Considerable matrix shift in the electronic transitions of helium-solvated cesium dimer cation Cs₂He+n. Physical Chemistry Chemical Physics, 2019, 21, 25362-25368.	1.3	7
43	Personal foreword on Helmut Schwarz Honor Issue. International Journal of Mass Spectrometry, 2019, 436, 23-24.	0.7	1
44	Structural Properties of Gas Phase Molybdenum Sulfide Clusters [Mo₃S₁₃]^{2â€“}, [HMo₃S₁₃]^{â^'}, and [H₃Mo₃S₁₃]⁺ as Model Systems of a Promising Hydrogen Evolution Catalyst. Journal of Physical Chemistry C, 2019, 123, 8177-8186.	1.5	24
45	CO₂/O₂ Exchange in Magnesiumâ€“Water Clusters Mg⁺(H₂O)_n. Journal of Physical Chemistry A, 2019, 123, 73-81.	1.1	11
46	Infrared multiple photon dissociation of cesium iodide clusters doped with mono-, di- and triglycine. European Journal of Mass Spectrometry, 2019, 25, 122-132.	0.5	9
47	Kinetics of the reaction of CO₃Ë™^{â^'}(H₂O)_n, n = 0, 1, 2, with nitric acid, a key reaction in tropospheric negative ion chemistry. Physical Chemistry Chemical Physics, 2018, 20, 10838-10845.	1.3	6
48	Isomeric Broadening of C₆₀⁺ Electronic Excitation in Helium Droplets: Experiments Meet Theory. Journal of Physical Chemistry Letters, 2018, 9, 1237-1242.	2.1	26
49	Gas-Phase Reactivity Studies of Small Molybdenum Cluster Ions with Dimethyl Disulfide. Topics in Catalysis, 2018, 61, 20-27.	1.3	10
50	Photochemistry of glyoxylate embedded in sodium chloride clusters, a laboratory model for tropospheric sea-salt aerosols. Physical Chemistry Chemical Physics, 2018, 20, 8143-8151.	1.3	22
51	Photochemistry and spectroscopy of small hydrated magnesium clusters Mg+(H2O)n, n = 1â€“5. Journal of Chemical Physics, 2018, 149, 044309.	1.2	28
52	Photodissociation of Sodium Iodide Clusters Doped with Small Hydrocarbons. Chemistry - A European Journal, 2018, 24, 12433-12443.	1.7	16
53	Photodissociation spectroscopy of protonated leucine enkephalin. Physical Chemistry Chemical Physics, 2017, 19, 10786-10795.	1.3	29
54	Electron-triggered chemistry in HNO₃/H₂O complexes. Physical Chemistry Chemical Physics, 2017, 19, 11753-11758.	1.3	28

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55	Hydration Leads to Efficient Reactions of the Carbonate Radical Anion with Hydrogen Chloride in the Gas Phase. Journal of Physical Chemistry A, 2017, 121, 192-197.	1.1	5
56	Communication: Charge transfer dominates over proton transfer in the reaction of nitric acid with gas-phase hydrated electrons. Journal of Chemical Physics, 2017, 147, 101101.	1.2	11
57	Infrared spectroscopy of OË™â^' and OHâ^' in water clusters: evidence for fast interconversion between OË™â^' and OHË™OHâ^'. Physical Chemistry Chemical Physics, 2017, 19, 25346-25351.	1.3	21
58	Evidence for Electron Transfer in the Reactions of Hydrated Monovalent First-Row Transition-Metal Ions M(H2O)n+, M = V, Cr, Mn, Fe, Co, Ni, Cu, and Zn, n < 40, toward 1-Iodopropane. Journal of Physical Chemistry A, 2017, 121, 9557-9566.	1.1	10
59	Do protons recombine with O2â^' and CO2â^' in water clusters?. International Journal of Mass Spectrometry, 2017, 418, 101-106.	0.7	12
60	Theoretical simulation of the infrared signature of mechanically stressed polymer solids. Beilstein Journal of Organic Chemistry, 2017, 13, 1710-1716.	1.3	6
61	Charge transfer reactions between gas-phase hydrated electrons, molecular oxygen and carbon dioxide at temperatures of 80â€“300 K. Physical Chemistry Chemical Physics, 2016, 18, 23528-23537.	1.3	24
62	Electrons Mediate the Gasâ€Phase Oxidation of Formic Acid with Ozone. Chemistry - A European Journal, 2016, 22, 12684-12687.	1.7	14
63	Atomically resolved phase transition of fullerene cations solvated in helium droplets. Nature Communications, 2016, 7, 13550.	5.8	84
64	Mechanochemical Cycloreversion of Cyclobutane Observed at the Single Molecule Level. Chemistry - A European Journal, 2016, 22, 12034-12039.	1.7	34
65	The reaction of CF₂Cl₂ with gas-phase hydrated electrons. Physical Chemistry Chemical Physics, 2016, 18, 23910-23915.	1.3	9
66	Force dependence of the infrared spectra of polypropylene calculated with density functional theory. Polymer Degradation and Stability, 2016, 128, 294-299.	2.7	9
67	Chemical Reactivity on Gasâ€Phase Metal Clusters Driven by Blackbody Infrared Radiation. Angewandte Chemie - International Edition, 2015, 54, 1357-1360.	7.2	19
68	Lokalisierung eines mechanochemischen Bindungsbruchs durch Einbettung des Mechanophors in einen Makrocyclus. Angewandte Chemie, 2015, 127, 2587-2590.	1.6	14
69	Reactivity of Hydrated Monovalent First Row Transition Metal Ions [M(H2O)n]+, M = Cr, Mn, Fe, Co, Ni, Cu, and Zn, n < 50, Toward Acetonitrile. Journal of Physical Chemistry A, 2015, 119, 5566-5578.	1.1	13
70	Radiation Effects in Solid Nitrogen and Nitrogen-Containing Matrices: Fingerprints of N₄⁺ Species. Journal of Physical Chemistry A, 2015, 119, 2475-2482.	1.1	24
71	Pinpointing Mechanochemical Bond Rupture by Embedding the Mechanophore into a Macrocycle. Angewandte Chemie - International Edition, 2015, 54, 2556-2559.	7.2	47
72	Thermochemistry of the Reaction of SF6 with Gas-Phase Hydrated Electrons: A Benchmark for Nanocalorimetry. Journal of Physical Chemistry A, 2015, 119, 9978-9985.	1.1	37

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73	Mechanically induced silyl ester cleavage under acidic conditions investigated by AFM-based single-molecule force spectroscopy in the force-ramp mode. Faraday Discussions, 2014, 170, 357-367.	1.6	18
74	Electron transfer reactions of nitromethane, acetaldehyde and benzaldehyde with (H2O)nâ^', CO2â^'(H2O)n, and O2â^'(H2O)n, n<110, in the gas phase. International Journal of Mass Spectrometry, 2014, 365-366, 295-300.	0.7	11
75	A density functional theory model of mechanically activated silyl ester hydrolysis. Journal of Chemical Physics, 2014, 140, 044321.	1.2	18
76	Carboxylation of Methyl Acrylate by Carbon Dioxide Radical Anions in Gasâ€Phase Water Clusters. Angewandte Chemie - International Edition, 2013, 52, 9327-9330.	7.2	28
77	CC bond formation between CO2â^' and allyl alcohol: A mechanistic study. International Journal of Mass Spectrometry, 2013, 354-355, 175-180.	0.7	16
78	Collisional Activation of N₂O Decomposition and CO Oxidation Reactions on Isolated Rhodium Clusters. Journal of Physical Chemistry A, 2013, 117, 8855-8863.	1.1	28
79	Reduction of Acetonitrile by Hydrated Magnesium Cations Mg⁺(H₂O)_n (nâ‰ˆ20â€“60) in the Gas Phase. ChemPlusChem, 2013, 78, 1040-1048.	1.3	22
80	Reactivity of Hydrated Monovalent First Row Transition Metal Ions M⁺(H₂O)_n, M = V, Cr, Mn, Fe, Co, Ni, Cu, Zn, toward Molecular Oxygen, Nitrous Oxide, and Carbon Dioxide. Journal of Physical Chemistry A, 2013, 117, 1011-1020.	1.1	42
81	Gasâ€Phase Reactions of Cationic Vanadiumâ€Phosphorus Oxide Clusters with C₂H_x (x=4, 6): A DFTâ€Based Analysis of Reactivity Patterns. Chemistry - A European Journal, 2013, 19, 3017-3028.	1.7	24
82	Reactions of Hydrated Singly Charged Firstâ€Row Transitionâ€Metal Ions M⁺(H₂O)_n (M=V, Cr, Mn, Fe, Co, Ni, Cu, and Zn) toward Nitric Oxide in the Gas Phase. Chemistry - A European Journal, 2013, 19, 3741-3750.	1.7	21
83	Photodissociation and photochemistry of V+(H2O)n, nâ€‰=â€‰1â€“4, in the 360â€“680â€‰nm region. Low Temperature Physics, 2012, 38, 717-722.	0.2	17
84	Electron induced reactions of unsaturated hydrocarbons in water clusters. International Journal of Mass Spectrometry, 2012, 330-332, 246-253.	0.7	6
85	Reactions of M⁺(H₂O)_n, n < 40, M = V, Cr, Mn, Fe, Co, Ni, Cu, and Zn, with D₂O Reveal Water Activation in Mn⁺(H₂O)_n. Journal of Physical Chemistry A, 2012, 116, 10676-10682.	1.1	31
86	Reactions of CH₃SH and CH₃SSCH₃ with Gas-Phase Hydrated Radical Anions (H₂O)_n^{â€¢â€“}, CO₂^{â€¢â€“}(H₂O)_n, and O₂^{â€¢â€“}(H₂O)_n. Journal of Physical Chemistry A, 2012, 116, 3824-3835.	1.1	28
87	Single-Molecule Force-Clamp Experiments Reveal Kinetics of Mechanically Activated Silyl Ester Hydrolysis. ACS Nano, 2012, 6, 1314-1321.	7.3	33
88	The structure of gas-phase [AlÂ·nH2O]+: hydrated monovalent aluminium Al+(H2O)n or hydride-hydroxide HAlOH+(H2O)nâ^'1?. Physical Chemistry Chemical Physics, 2011, 13, 6776.	1.3	21
89	Mechanically activated rupture of single covalent bonds: evidence of force induced bond hydrolysis. Physical Chemistry Chemical Physics, 2011, 13, 5994.	1.3	48
90	Competition between Birch reduction and fluorine abstraction in reactions of hydrated electrons (H2O)nâ^' with the isomers of di- and trifluorobenzene. Physical Chemistry Chemical Physics, 2011, 13, 8924.	1.3	10

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91	Hydrated Magnesium Cations Mg⁺(H₂O)_n, n â‰ˆ 20â€“60, Exhibit Chemistry of the Hydrated Electron in Reactions with O₂ and CO₂. Journal of Physical Chemistry A, 2011, 115, 10174-10180.	1.1	37
92	Ion-molecule reactions of CoAr6+ with di- and trifluorobenzenes probe absolute pressure in FT-ICR MS. International Journal of Mass Spectrometry, 2011, 300, 44-49.	0.7	8
93	Charging Effects in an Electron Bombarded Ar Matrix and the Role of Chemiluminescence-Driven Relaxation. Journal of Physical Chemistry A, 2011, 115, 7258-7266.	1.1	10
94	DarstellungÃ¼ber Kohlenwasserstoffen und elektronische Struktur von heteronuclearen Vanadium-Phosphor-Sauerstoff-Clusterionen. Angewandte Chemie, 2011, 123, 1466-1470.	1.6	42
95	Generation, Reactivity Towards Hydrocarbons, and Electronic Structure of Heteronuclear Vanadium Phosphorous Oxygen Cluster Ions. Angewandte Chemie - International Edition, 2011, 50, 1430-1434.	7.2	73
96	Diatomic [CuO]⁺ and Its Role in the Spinâ€Selective Hydrogenâ€•and Oxygenâ€Atom Transfers in the Thermal Activation of Methane. Angewandte Chemie - International Edition, 2011, 50, 4966-4969.	7.2	156
97	Selective Formic Acid Synthesis from Nanoscale Electrochemistry. Angewandte Chemie - International Edition, 2010, 49, 8257-8259.	7.2	25
98	Ionâ€“molecule reactions of CoAr6+ with nitrogen oxides N2O, NO, and NO2: measuring absolute pressure by shock-freezing of the collision complex. Low Temperature Physics, 2010, 36, 411-416.	0.2	7
99	Formation of (Xe2H)* centers in solid Xe via recombination: nonstationary luminescence and internal electron emission. Low Temperature Physics, 2010, 36, 407-410.	0.2	6
100	The [Aun,Si]â¯, n=1â€“4, potential energy surface: Competition between Auâ€“Si and Auâ€“Au bonding. Journal of Chemical Physics, 2010, 132, 224307.	1.2	16
101	Simple Coupling Chemistry Linking Carboxyl-Containing Organic Molecules to Silicon Oxide Surfaces under Acidic Conditions. Langmuir, 2010, 26, 15333-15338.	1.6	26
102	Gas-Phase Ion Chemistry of Small Gold Cluster Anions. Organometallics, 2010, 29, 3001-3006.	1.1	19
103	Thermochemistry from ionâ€“molecule reactions of hydrated ions in the gas phase: a new variant of nanocalorimetry reveals product energy partitioning. Physical Chemistry Chemical Physics, 2010, 12, 3772.	1.3	49
104	Thermal Nï£¿H Bond Activation on Anionic and Cationic Platinum Clusters: Nonâ€Predetermined Reaction Pathways Indicate Transitions to a Bulk Surface Reactivity. Chemistry - A European Journal, 2009, 15, 8465-8474.	1.7	15
105	A novel design of a temperature-controlled FT-ICR cell for low-temperature black-body infrared radiative dissociation (BIRD) studies of hydrated ions. International Journal of Mass Spectrometry, 2009, 279, 5-9.	0.7	55
106	Gas Phase Ion Chemistry of Goldâ€“Silicon Clusters. ChemPhysChem, 2008, 9, 1383-1386.	1.0	8
107	Activation of Methane by Oligomeric (Al₂O₃)_x⁺ (x=3,4,5): The Role of Oxygenâ€Centered Radicals in Thermal Hydrogenâ€Atom Abstraction. Angewandte Chemie - International Edition, 2008, 47, 1946-1950.	7.2	183
108	Gas-phase reactivities of charged platinum dimers with ammonia: A combined experimental/theoretical study. Chemical Physics Letters, 2008, 450, 268-273.	1.2	16

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109	Birch reduction of chlorobenzene in gas-phase hydrated electrons. International Journal of Mass Spectrometry, 2008, 277, 206-209.	0.7	8
110	Dynamic Strength of the Siliconâ"Carbon Bond Observed over Three Decades of Force-Loading Rates. Journal of the American Chemical Society, 2008, 130, 3664-3668.	6.6	70
111	Electric deflection studies of rhodium clusters. Journal of Chemical Physics, 2007, 126, 104301.	1.2	31
112	Reactions of Large Water Cluster Anions with Hydrogen Chloride:Â Formation of Atomic Hydrogen and Phase Separation in the Gas Phase. Journal of the American Chemical Society, 2007, 129, 3238-3246.	6.6	23
113	Hydrated metal ions in the gas phase. Mass Spectrometry Reviews, 2007, 26, 517-541.	2.8	142
114	Catalyst poisoning in the conversion of CO and N 2O to CO 2 and N 2 on Pt 4 - in the gas phase. European Physical Journal D, 2007, 43, 189-192.	0.6	48
115	Photo- and thermally stimulated relaxation processes in pre-irradiated atomic solids. Radiation Physics and Chemistry, 2007, 76, 577-581.	1.4	5
116	Activation of methane and methane-d4 by ionic platinum clusters. International Journal of Mass Spectrometry, 2006, 254, 183-188.	0.7	46
117	Size-dependent dehydrogenation of ethane by cationic rhodium clusters in the gas phase. International Journal of Mass Spectrometry, 2006, 255-256, 71-75.	0.7	12
118	Reactions of hydrated electrons (H2O)nâ" with formic acid. International Journal of Mass Spectrometry, 2006, 249-250, 106-111.	0.7	10
119	Ab Initio Molecular Dynamics Studies of Ionic Dissolution and Precipitation of Sodium Chloride and Silver Chloride in Water Clusters, NaCl(H2O)n and AgCl(H2O)n,n = 6, 10, and 14. Chemistry - A European Journal, 2006, 12, 6382-6392.	1.7	31
120	Proton Transfer in Ionic Water Clusters. Angewandte Chemie - International Edition, 2006, 45, 4027-4030.	7.2	46
121	Anomalous low-temperature desorption from preirradiated rare gas solids. Journal of Luminescence, 2005, 112, 101-104.	1.5	6
122	Rate estimates for collisions of ionic clusters with neutral reactant molecules. International Journal of Mass Spectrometry, 2005, 244, 84-90.	0.7	186
123	Free Electrons, the Simplest Radicals of Them All: Chemistry of Aqueous Electrons as Studied by Mass Spectrometry. ChemInform, 2005, 36, no.	0.1	0
124	Mechanochemistry: The Mechanical Activation of Covalent Bonds. ChemInform, 2005, 36, no.	0.1	2
125	Anomalous Phenomena on Surfaces of Preirradiated Cryocrystals. Journal of Low Temperature Physics, 2005, 139, 621-631.	0.6	4
126	Hydrogen formation in the reaction of Zn+(H2O)n with HCl. Physical Chemistry Chemical Physics, 2005, 7, 981.	1.3	17

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127	Spectroscopy and dynamics of radicals, clusters and ions. Physical Chemistry Chemical Physics, 2005, 7, 721.	1.3	1
128	Mechanochemistry:â€‰ The Mechanical Activation of Covalent Bonds. Chemical Reviews, 2005, 105, 2921-2948.	23.0	1,106
129	Free electrons, the simplest radicals of them all: chemistry of aqueous electrons as studied by mass spectrometry. International Journal of Mass Spectrometry, 2004, 238, 65-74.	0.7	47
130	Generation of C6H4+. by laser vaporization of magnesium witho-C6H4F2 in argon carrier gas. Rapid Communications in Mass Spectrometry, 2004, 18, 1479-1481.	0.7	13
131	Catalytic Oxidation of CO with N2O on Gas-Phase Platinum Clusters. Angewandte Chemie - International Edition, 2004, 43, 6519-6522.	7.2	110
132	Catalytic Oxidation of CO with N2O on Gas-Phase Platinum Clusters. Angewandte Chemie, 2004, 116, 6681-6684.	1.6	97
133	Reactions of Hydrated Electrons (H2O)nâ^' with Carbon Dioxide and Molecular Oxygen: Hydration of the CO2â^' and O2â^' Ions. Chemistry - A European Journal, 2004, 10, 4822-4830.	1.7	52
134	Mass spectrometric studies of azides: reactions of Ar+ with 3-azidopropionitrile, 2-azidopropionitrile, and azidoacetonitrile in a Fourier transform ion cyclotron resonance mass spectrometer. International Journal of Mass Spectrometry, 2004, 237, 65-73.	0.7	5
135	Generation of ArnH3+ cluster ions by laser vaporization and their black-body radiation induced dissociation. Physical Chemistry Chemical Physics, 2004, 6, 1128.	1.3	4
136	Reactions of platinum clusters195PtnÂ±, n = 1â€“24, with N2O studied with isotopically enriched platinum. Physical Chemistry Chemical Physics, 2004, 6, 2910-2913.	1.3	59
137	Base-Catalyzed Hydrogen/Deuterium Exchange between Water and Acetonitrile in Anionic Water Clusters. Journal of Physical Chemistry A, 2004, 108, 7506-7512.	1.1	5
138	Size- and Charge-State-Dependent Reactivity of Azidoacetonitrile with Anionic and Cationic Rhodium Clusters RhnÂ±. Organometallics, 2004, 23, 1978-1985.	1.1	22
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