

Knut R Asmis

List of Publications by Year in descending order

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papers

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154
docs citations

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3755
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-Phase Infrared Spectrum of the Protonated Water Dimer. <i>Science</i> , 2003, 299, 1375-1377.	6.0	387
2	Spectroscopic snapshots of the proton-transfer mechanism in water. <i>Science</i> , 2016, 354, 1131-1135.	6.0	213
3	Infrared Spectroscopy of the Microhydrated Nitrate Ions $\text{NO}_3^{\sim}(\text{H}_2\text{O})_6$. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7584-7592.	1.1	209
4	Mass-selective vibrational spectroscopy of vanadium oxide cluster ions. <i>Mass Spectrometry Reviews</i> , 2007, 26, 542-562.	2.8	192
5	Cryogenic ion trap vibrational spectroscopy of hydrogen-bonded clusters relevant to atmospheric chemistry. <i>International Reviews in Physical Chemistry</i> , 2015, 34, 1-34.	0.9	165
6	Infrared Spectroscopy of Hydrated Bicarbonate Anion Clusters: $\text{HCO}_3^{\sim}(\text{H}_2\text{O})_{10}$. <i>Journal of the American Chemical Society</i> , 2010, 132, 849-856.	6.6	146
7	Mass-selected infrared photodissociation spectroscopy of $\text{V}_4\text{O}_{10}^+$. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1101-1104.	1.3	145
8	Formation and photodepletion of cluster ion-messenger atom complexes in a cold ion trap: Infrared spectroscopy of VO^+ , VO_2^+ , and VO_3^+ . <i>Journal of Chemical Physics</i> , 2003, 119, 12700-12703.	1.2	142
9	Structure characterization of metal oxide clusters by vibrational spectroscopy: possibilities and prospects. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9270.	1.3	119
10	Polyhedral Vanadium Oxide Cages: Infrared Spectra of Cluster Anions and Size-Induced d Electron Localization. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3122-3125.	7.2	116
11	Unexpected Structures of Aluminum Oxide Clusters in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3372-3375.	7.2	113
12	Infrared spectroscopy of hydrated sulfate dianions. <i>Journal of Chemical Physics</i> , 2006, 125, 111102.	1.2	112
13	Gas phase infrared spectroscopy of mono- and divanadium oxide cluster cations. <i>Journal of Chemical Physics</i> , 2004, 120, 6461-6470.	1.2	110
14	Isomer-Selective Detection of Hydrogen-Bond Vibrations in the Protonated Water Hexamer. <i>Journal of the American Chemical Society</i> , 2013, 135, 8266-8273.	6.6	107
15	Messenger-Tagging Electrosprayed Ions: Vibrational Spectroscopy of Suberate Dianions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5874-5880.	1.1	100
16	Vibrational Spectroscopy of Microhydrated Conjugate Base Anions. <i>Accounts of Chemical Research</i> , 2012, 45, 43-52.	7.6	100
17	Structure and Fluxionality of B_{13}^+ Probed by Infrared Photodissociation Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 501-504.	7.2	88
18	Infrared Spectroscopy of Hydrated Bisulfate Anion Clusters: $\text{HSO}_4^{\sim}(\text{H}_2\text{O})_{16}$. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2135-2140.	2.1	87

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19	Evolution of electronic structure as a function of size in gallium phosphide semiconductor clusters. <i>Chemical Physics Letters</i> , 1998, 297, 133-140.	1.2	85
20	Gas phase vibrational spectroscopy of mass-selected vanadium oxide anions. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3992.	1.3	81
21	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.	1.7	80
22	Fluxional Boron Clusters: From Theory to Reality. <i>Accounts of Chemical Research</i> , 2019, 52, 2732-2744.	7.6	79
23	Gas-Phase Infrared Spectroscopy and Multidimensional Quantum Calculations of the Protonated Ammonia Dimer $N_2H_7^+$. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8691-8694.	7.2	77
24	Anion photoelectron spectroscopy of B_2N^+ . <i>Journal of Chemical Physics</i> , 1999, 111, 8838-8851.	1.2	74
25	Vibrational spectroscopy of hydrated electron clusters $(H_2O)_n$ via infrared multiple photon dissociation. <i>Journal of Chemical Physics</i> , 2007, 126, 191105.	1.2	74
26	Rational design of an argon-binding superelectrophilic anion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8167-8172.	3.3	69
27	Structure and Chemistry of the Heteronuclear Oxo-Cluster $[VPO_4]^{+}$: A Model System for the Gas-Phase Oxidation of Small Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2013, 135, 3711-3721.	6.6	66
28	Photoelectron spectroscopy of GaX_2^+ , Ga_2X^+ , $Ga_2X_2^+$, and $Ga_2X_3^+$ (X=P,As). <i>Journal of Chemical Physics</i> , 2001, 115, 4620-4631.	1.2	64
29	Gas-Phase Vibrational Spectroscopy of Microhydrated Magnesium Nitrate Ions $[MgNO_3(H_2O)_n]^{+}$. <i>Journal of the American Chemical Society</i> , 2010, 132, 7398-7404.	6.6	62
30	Spectroscopic Identification of a Bidentate Binding Motif in the Anionic Magnesium CO_2 Complex $([ClMgCO_2]^{+})$. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14407-14410.	7.2	61
31	Site-specific vibrational spectral signatures of water molecules in the magic H_3O^+ (H_2O) ₂₀ and Cs (H_2O) ₂₀ clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18132-18137.	3.3	59
32	Isomorphous Substitution in Bimetallic Oxide Clusters. <i>Physical Review Letters</i> , 2006, 96, 233401.	2.9	57
33	Structural variability in transition metal oxide clusters: gas phase vibrational spectroscopy of $V_3O_8^{+}$. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9377.	1.3	55
34	Vibrational Spectroscopy of Bisulfate/Sulfuric Acid/Water Clusters: Structure, Stability, and Infrared Multiple-Photon Dissociation Intensities. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7081-7090.	1.1	55
35	Superelectrophilic Behavior of an Anion Demonstrated by the Spontaneous Binding of Noble Gases to $[B_{12}Cl_{11}]^{+}$. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7980-7985.	7.2	55
36	Electronic structure of indium phosphide clusters: anion photoelectron spectroscopy of $In_xP_x^{+}$ and $In_{x+1}P_x^{+}$ ($x=1-13$) clusters. <i>Chemical Physics Letters</i> , 1999, 308, 347-354.	1.2	53

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37	Gas phase vibrational spectroscopy of the protonated water pentamer: the role of isomers and nuclear quantum effects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26743-26754.	1.3	53
38	10 K Ring Electrode Trap Tandem Mass Spectrometer for Infrared Spectroscopy of Mass Selected Ions. , 2009, , .		52
39	Vibrational spectroscopy of (SO ₂) ⁺ (H ₂ O) _n clusters, n=1-5: Harmonic and anharmonic calculations and experiment. <i>Journal of Chemical Physics</i> , 2007, 127, 094305.	1.2	51
40	Identification of Conical Structures in Small Aluminum Oxide Clusters: Infrared Spectroscopy of (Al ₂ O ₃) ⁺ (AlO) ⁺ . <i>Journal of the American Chemical Society</i> , 2008, 130, 15143-15149.	6.6	51
41	Structures and vibrational spectroscopy of partially reduced gas-phase cerium oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19393.	1.3	50
42	Probing a strong hydrogen bond with infrared spectroscopy: Vibrational predissociation of BrHBr...Ar. <i>Journal of Chemical Physics</i> , 2003, 118, 5275-5278.	1.2	48
43	Electron Distribution in Partially Reduced Mixed Metal Oxide Systems: Infrared Spectroscopy of Ce _m V _n O _o ⁺ Gas-Phase Clusters. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11187-11192.	1.1	42
44	Vibrational signatures of hydrogen bonding in the protonated ammonia clusters NH ₄ +(NH ₃) ₁₋₄ . <i>Journal of Chemical Physics</i> , 2008, 129, 224302.	1.2	41
45	Mid- and Far-IR Spectra of H ₅ ⁺ and D ₅ ⁺ Compared to the Predictions of Anharmonic Theory. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3160-3166.	2.1	41
46	Measurement of absolute differential cross sections for the excitation of the n=2 states of helium at and. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 1961-1974.	0.6	40
47	Anion photoelectron spectroscopy of BN ⁻ . <i>Chemical Physics Letters</i> , 1998, 295, 75-81.	1.2	40
48	Zero electron kinetic energy and photoelectron spectroscopy of the Xe ⁻ anion. <i>Journal of Chemical Physics</i> , 1998, 109, 10754-10766.	1.2	40
49	Resonances in collisions of low-energy electrons with ozone: Experimental elastic and vibrationally inelastic differential cross sections and dissociative attachment spectra. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 4727-4747.	0.6	39
50	Vibrational Spectroscopy of the Water Nitrate Complex in the O-H Stretching Region. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8188-8197.	1.1	39
51	Dissociative Water Adsorption by Al ₃ O ₄ ⁺ in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1272-1277.	2.1	38
52	Deconstructing Prominent Bands in the Terahertz Spectra of H ₇ O ₃ ⁺ and H ₉ O ₄ ⁺ : Intermolecular Modes in Eigen Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 798-803.	2.1	38
53	Gas phase infrared spectroscopy of cluster anions as a function of size: The effect of solvation on hydrogen-bonding in Br... (HBr) _{1,2,3} clusters. <i>Journal of Chemical Physics</i> , 2002, 117, 6493-6499.	1.2	37
54	Chapter 8 Vibrational spectroscopy of gas-phase clusters and complexes. <i>Chemical Physics of Solid Surfaces</i> , 2007, , 327-375.	0.3	37

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55	Thermodynamics of Water Dimer Dissociation in the Primary Hydration Shell of the Iodide Ion with Temperature-Dependent Vibrational Predissociation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1859-1866.	1.1	37
56	Anion photoelectron spectroscopy of $I_2^{\cdot-}$ and $I_2^{\cdot-} \cdots Ar_n$ ($n=14, 16, 20$) clusters. <i>Journal of Chemical Physics</i> , 1998, 109, 4389-4395.	1.2	34
57	Infrared Photodissociation Spectroscopy of Microhydrated Nitrate ⁻ Nitric Acid Clusters $NO_3^{\cdot-} \cdots (HNO_3)_n$ (H_2O) _n . <i>Journal of Physical Chemistry A</i> , 2014, 118, 7613-7622.		34
58	Catalytic Conversion of CH_4 and CO_2 Mediated by Rhodium-Titanium Oxide Anions $RhTiO_2^{\cdot-}$. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13788-13792.	7.2	34
59	Large amplitude motion in cold monohydrated dihydrogen phosphate anions $H_2PO_4^{\cdot-} (H_2O)$: infrared photodissociation spectroscopy combined with ab initio molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1314-1318.	1.3	32
60	Disentangling the Contribution of Multiple Isomers to the Infrared Spectrum of the Protonated Water Heptamer. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2298-2304.	2.1	32
61	Communication: Vibrational spectroscopy of atmospherically relevant acid cluster anions: Bisulfate versus nitrate core structures. <i>Journal of Chemical Physics</i> , 2012, 136, 241102.	1.2	31
62	Characterization of the I_3 radical by anion photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 110, 7607-7609.	1.2	30
63	Infrared spectroscopic characterization of the oxidative dehydrogenation of propane by $V_4O_{10}^+$. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 102-106.	0.7	29
64	Cryogenic Ion Trap Vibrational Spectroscopy of Hydrogen-Bonded Clusters Relevant to Atmospheric Chemistry (<i>International Reviews in Physical Chemistry</i> , 2015, Vol. 34, No. 1, 1-34). <i>International Reviews in Physical Chemistry</i> , 2016, 35, 507-507.	0.9	29
65	Size-Selected Clusters as Model Systems for Catalysis. <i>Topics in Catalysis</i> , 2018, 61, 1-2.	1.3	29
66	The singlet-triplet splittings of NCN . <i>Chemical Physics Letters</i> , 1999, 301, 413-416.	1.2	28
67	Kinetic study of the reaction of vanadium and vanadium-titanium oxide cluster anions with SO_2 . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14344.	1.3	28
68	Production of vibrationally autodetaching in low-energy electron impact on ozone. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 3487-3495.	0.6	27
69	Gas-Phase Infrared Photodissociation Spectroscopy of Tetravanadiumoxo and Oxo-Methoxo Cluster Anions. <i>ChemPhysChem</i> , 2007, 8, 1640-1647.	1.0	27
70	Synthesis and spectroscopy of tricyclo[3.3.3.0 ^{3,7}]undec-3(7)-ene: confirmation of computational predictions regarding the effects of pyramidalization on alkene ionization energies and electron affinities. <i>Journal of the American Chemical Society</i> , 1993, 115, 3816-3817.	6.6	26
71	Anion photoelectron spectroscopy of $B_3N_3^{\cdot-}$. <i>Journal of Chemical Physics</i> , 1999, 111, 10491-10500.	1.2	26
72	Triplet states in oligomeric materials: Electron energy loss spectroscopy of thiophene and bithiophene and extrapolation to the polymer. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 827-833.	1.3	26

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73	First steps towards a stable neon compound: observation and bonding analysis of [B ₁₂ (CN) ₁₁ Ne] ⁺ . <i>Chemical Communications</i> , 2020, 56, 4591-4594.	2.2	26
74	Experimental Identification of the Active Site in the Heteronuclear Redox Couples [AlVO _x] ⁺ /CO/N ₂ O (x=3,4) by Gas-Phase IR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7448-7452.	7.2	25
75	Vibrationally resolved anion photoelectron spectra of the low-lying electronic states of GaP ₂ ⁻ , Ga ₂ P ₃ ⁻ , and Ga ₂ P ₃ ⁻ . <i>European Physical Journal D</i> , 1999, 9, 317-321.	0.6	23
76	Vibrational spectra of small silicon monoxide cluster cations measured by infrared multiple photon dissociation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1502.	1.3	22
77	Opening of an icosahedral boron framework: A combined infrared spectroscopic and computational study. <i>Chemical Physics Letters</i> , 2015, 625, 48-52.	1.2	22
78	IR Spectroscopic Characterization of the Thermally Induced Isomerization in Carbon Disulfide Dimer Anions. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2465-2469.	2.1	21
79	Dissociative Water Adsorption on Gas-Phase Titanium Dioxide Cluster Anions Probed with Infrared Photodissociation Spectroscopy. <i>Topics in Catalysis</i> , 2018, 61, 92-105.	1.3	21
80	Direct functionalization of C-H bonds by electrophilic anions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23374-23379.	3.3	21
81	The vibrational spectrum of FeO ₂ ⁺ isomers: Theoretical benchmark and experiment. <i>Journal of Chemical Physics</i> , 2014, 140, 204315.	1.2	20
82	Electron-Energy-Loss Spectroscopy and Theoretical Study of Triplet and Singlet Excited States of Fulvene. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2089-2095.	1.1	19
83	The structure of Au ₆ ⁺ in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13907.	1.3	19
84	Microhydrated dihydrogen phosphate clusters probed by gas phase vibrational spectroscopy and first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25714-25724.	1.3	19
85	CO ₂ Adsorption on Ti ₃ O ₆ ⁺ : A Novel Carbonate Binding Motif. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8439-8446.	1.5	19
86	Probing the microsolvation of a quaternary ion complex: gas phase vibrational spectroscopy of (NaSO ₄) ⁺ (H ₂ O) _n (n=6,8). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 267-277.	1.3	18
87	Joining Microfluidics with Infrared Photodissociation: Online Monitoring of Isomeric Flow-Reaction Intermediates. <i>Analytical Chemistry</i> , 2019, 91, 3199-3203.	3.2	18
88	Spectroscopic Characterization of Solvent-Mediated Folding in Dicarboxylate Dianions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3807-3810.	7.2	17
89	Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B ₁₂ Cl ₁₁] ⁺ . <i>Angewandte Chemie</i> , 2017, 129, 8090-8096.	1.6	17
90	Electronic and Vibrational Structure and Scaled Density Functional Force Field of Cyclopentadiene and Its Radical Cation. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17844-17851.	2.9	16

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91	Gas phase vibrational spectroscopy of cold (TiO ₂) ⁿ⁺ (<i>n</i> = 3–8) clusters. <i>Journal of Chemical Physics</i> , 2016, 144, 124308.	1.2	16
92	Gas-Phase Vibrational Spectroscopy of the Aluminum Oxide Anions (Al ₂ O ₃) ⁺ and AlO ₂ ⁺ . <i>ChemPhysChem</i> , 2017, 18, 868-872.	1.0	16
93	Excess charge driven dissociative hydrogen adsorption on Ti ₂ O ₄ ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23154-23161.	1.3	16
94	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 - International Edition</i> , 2019, 58, 18868-18872.	7.2	16
95	Structure and Reactivity of Al ⁺ O(H) ⁺ Al Moieties in Siloxide Frameworks: Solution and Gas-Phase Model Studies. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 902-906.	7.2	16
96	Electron Energy Loss and DFT/SCI Study of the Singlet and Triplet Excited States and Electron Attachment Energies of Tetramethylsilane, Hexamethyldisilane, Tris(trimethylsilyl)silane, and Tetramethoxysilane. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3524-3531.	1.1	15
97	Experimental and theoretical study of the infrared spectra of BrH ⁺ and BrD ⁺ . <i>Journal of Chemical Physics</i> , 2004, 121, 7259-7268.	1.2	15
98	Infrared Spectra and Structures of Silver-PAH Cation Complexes. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2052-2056.	2.1	15
99	Untersuchung der Struktur und Dynamik des B ₁₃ ⁺ mithilfe der Infrarot-Photodissoziationsspektroskopie. <i>Angewandte Chemie</i> , 2017, 129, 515-519.	1.6	15
100	Relevance of π -Backbonding for the Reactivity of Electrophilic Anions [B ₁₂ X ₁₁] ⁺ (X=F, Cl, Br, I, CN). <i>Chemistry - A European Journal</i> , 2021, 27, 10274-10281.	1.7	15
101	Vibrational wave packet dynamics in the silver tetramer probed by NeNePo femtosecond pump-probe spectroscopy. <i>European Physical Journal D</i> , 2001, 16, 145-149.	0.6	14
102	Valence and Structure Isomerism of Al ₂ FeO ₄ ⁺ : Synergy of Spectroscopy and Quantum Chemistry. <i>Journal of the American Chemical Society</i> , 2020, 142, 18050-18059.	6.6	14
103	Measurement of absolute differential cross sections for the excitation of the $\tilde{\epsilon}, \tilde{\epsilon}^*$ triplet state of ethene by electron impact at 0° and 180°. <i>Journal of Chemical Physics</i> , 1997, 106, 7044-7046.	1.2	13
104	Gas phase structures and charge localization in small aluminum oxide anions: Infrared photodissociation spectroscopy and electronic structure calculations. <i>Journal of Chemical Physics</i> , 2016, 144, 244305.	1.2	13
105	Vibrational spectroscopy of the hexahydrated sulfate dianion revisited: role of isomers and anharmonicities. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11651-11659.	1.3	13
106	Anion photoelectron spectroscopy of small boron nitride clusters: adiabatic detachment energies and vibrational frequencies of low-lying electronic states in B ₂ N and B ₃ N. <i>European Physical Journal D</i> , 1999, 9, 257-261.	0.6	12
107	Excess energy partitioning between electrons departing at and in the ionization of helium near threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, L167-L173.	0.6	11
108	Influence of argon and D ₂ tagging on the hydrogen bond network in Cs ⁺ (H ₂ O) ₃ ; kinetic trapping below 40 K. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28476-28486.	1.3	11

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109	Experimentelle Bestimmung des aktiven Zentrums im heteronuklearen Redox-System $[AlVO_x]^{+}/CO/N_2O$ ($x=3, \dots, 4$) durch Gasphasen-Infrarotspektroskopie. <i>Angewandte Chemie</i> , 2018, 130, 7570-7574.	1.6	10
110	Direct Identification of Acetaldehyde Formation and Characterization of the Active Site in the $[VPO_4]^{+}/C_2H_4$ Couple by Gas-Phase Vibrational Spectroscopy. <i>Angewandte Chemie</i> , 2019, 131, 19044-19048.	1.6	10
111	Geometric Structures and Magnetic Interactions in Small Chromium Oxide Clusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27640-27647.	1.5	9
112	Synthesis, Electronic Properties and Reactivity of $[B_{12}X_{11}(NO_2)]^{2-}$ ($X=F, I$) Dianions. <i>Chemistry - A European Journal</i> , 2020, 26, 14594-14601.	1.7	9
113	Infrared photodissociation spectroscopy of D_2 -tagged $CH_3CO_2^{+}$ (H_2O) anions. <i>Molecular Physics</i> , 2020, 118, e1749953.	0.8	9
114	Online Monitoring of Isomeric Reaction Intermediates. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2801-2815.	1.1	9
115	Solvent-mediated folding of dicarboxylate dianions: aliphatic chain length dependence and origin of the IR intensity quenching. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20463.	1.3	8
116	A cryogenic single nanoparticle action spectrometer. <i>Review of Scientific Instruments</i> , 2019, 90, 125110.	0.6	8
117	Probing the propensity of perchlorate anions for surface solvation by infrared photodissociation spectroscopy. <i>Journal of Chemical Physics</i> , 2018, 148, 222840.	1.2	7
118	Infrared Photodissociation Spectroscopy of $C_2N_1^{+}$ Anions with $x=1, \dots, 5$. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 351-367.	1.4	6
119	Struktur und Reaktivität der $AlO(H)Al$ -Einheiten in Siloxidgerüstverbindungen – Modellstudien in Lösung und in Isolation. <i>Angewandte Chemie</i> , 2019, 131, 912-917.	1.6	6
120	Gas-Phase Mechanism of O^+/Ni_2^{+} -Mediated Methane Conversion to Formaldehyde. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6
121	Triplet Energy of 2, 2-Dimethylisoidene from Electron-Energy-Loss Spectroscopy and Photoinduced Triplet Energy Transfer. <i>Helvetica Chimica Acta</i> , 1994, 77, 1541-1548.	1.0	5
122	Communication: Gas phase vibrational spectroscopy of the azide-water complex. <i>Journal of Chemical Physics</i> , 2018, 149, 191101.	1.2	5
123	Cryogenic ion trap vibrational spectroscopy of the microhydrated sulfate dianions $SO_4^{2-}(H_2O)_3^{8-}$. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27732-27745.	1.3	5
124	Isolating the Isomeric Hydrogen Bonding Signatures of the Cyanide-Water Complex by Cryogenic Ion Trap Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5349-5354.	2.1	4
125	Unravelling the configuration of transient ortho-quinone methides by combining microfluidics with gas phase vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4610-4616.	1.3	4
126	Isomer-Specific Vibrational Spectroscopy of Microhydrated Lithium Dichloride Anions: Spectral Fingerprint of Solvent-Shared Ion Pairs. <i>ChemPhysChem</i> , 2021, 22, 1036-1041.	1.0	4

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127	Structural Characterization of Nickel-Doped Aluminum Oxide Cations by Cryogenic Ion Trap Vibrational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9527-9535.	1.1	4
128	Infrared Photodissociation Spectroscopy of C ₄ N ⁺ , C ₆ N ⁺ and C ₈ N ⁺ . <i>ChemPhysChem</i> , 2016, 17, 3783-3789.	1.0	3
129	Electronic Action Spectroscopy on Single Nanoparticles in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6051-6056.	2.1	3
130	Gemeinsame katalytische Umsetzung von CH ₄ und CO ₂ durch Rhodium-Titanoxid-Anionen RhTiO ₂ ⁻ . <i>Angewandte Chemie</i> , 2021, 133, 13907-13911.	1.6	3
131	The Chemical Nature of Ti ₄ O ₁₀ ⁴⁻ : Vibrational Predissociation Spectroscopy Combined with Global Structure Optimization. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9571-9577.	1.1	3
132	Triplet-State Energy of the Photostabilizer Tinuvin P. <i>Helvetica Chimica Acta</i> , 1993, 76, 993-994.	1.0	2
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134	Gas Phase Vibrational Spectroscopy of Strong Hydrogen Bonds. , 0, , 53-78.		1
135	Controlling internal degrees: general discussion. <i>Faraday Discussions</i> , 2019, 217, 138-171.	1.6	1
136	Pushing resolution in frequency and time: general discussion. <i>Faraday Discussions</i> , 2019, 217, 290-321.	1.6	1
137	Titelbild: Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B ₁₂ Cl ₁₁] ⁺ (Angew. Chem. 27/2017). <i>Angewandte Chemie</i> , 2017, 129, 7789-7789.	1.6	0
138	Exotic systems: general discussion. <i>Faraday Discussions</i> , 2019, 217, 601-622.	1.6	0
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140	Identification of a Two-Coordinate Iron(II)-Oxalate Complex. <i>Angewandte Chemie</i> , 0, , .	1.6	0
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