

Roland Wester

List of Publications by Year in descending order

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206
papers

6,862
citations

57719

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74
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209
all docs

209
docs citations

209
times ranked

3637
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Ultracold Polar Molecules in the Rovibrational Ground State. <i>Physical Review Letters</i> , 2008, 101, 133004.	2.9	517
2	A KINETIC DATABASE FOR ASTROCHEMISTRY (KIDA). <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 21.	3.0	436
3	Imaging Nucleophilic Substitution Dynamics. <i>Science</i> , 2008, 319, 183-186.	6.0	307
4	THE 2014 KIDA NETWORK FOR INTERSTELLAR CHEMISTRY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 20.	3.0	291
5	Single solvent molecules can affect the dynamics of substitution reactions. <i>Nature Chemistry</i> , 2012, 4, 534-538.	6.6	132
6	Identification of Atomic-Level Mechanisms for Gas-Phase $X^{\bullet} + CH_3Y$ S_N2 Reactions by Combined Experiments and Simulations. <i>Accounts of Chemical Research</i> , 2014, 47, 2960-2969.	7.6	127
7	Radiofrequency multipole traps: tools for spectroscopy and dynamics of cold molecular ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 154001.	0.6	124
8	Calculations of static dipole polarizabilities of alkali dimers: Prospects for alignment of ultracold molecules. <i>Journal of Chemical Physics</i> , 2008, 129, 064309.	1.2	123
9	Experimental Investigation of Ultracold Atom-Molecule Collisions. <i>Physical Review Letters</i> , 2006, 96, 023201.	2.9	121
10	Influence of the leaving group on the dynamics of a gas-phase S_N2 reaction. <i>Nature Chemistry</i> , 2016, 8, 151-156.	6.6	116
11	Ultracold Molecules Formed by Photoassociation: Heteronuclear Dimers, Inelastic Collisions, and Interactions with Ultrashort Laser Pulses. <i>Chemical Reviews</i> , 2012, 112, 4890-4927.	23.0	111
12	High-Resolution Dissociative Recombination of Cold H_3^+ and First Evidence for Nuclear Spin Effects. <i>Physical Review Letters</i> , 2005, 95, 263201.	2.9	106
13	$F^{\bullet} + CH_3I \rightarrow FCH_3 + I^{\bullet}$ Reaction Dynamics. Nontraditional Atomistic Mechanisms and Formation of a Hydrogen-Bonded Complex. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2747-2752.	2.1	103
14	Indirect Dynamics in a Highly Exoergic Substitution Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 4250-4259.	6.6	94
15	Time-resolved photoelectron imaging of the photodissociation of I_2^{\bullet} . <i>Journal of Chemical Physics</i> , 2003, 118, 999-1002.	1.2	93
16	Probing Isotope Effects in Chemical Reactions Using Single Ions. <i>Physical Review Letters</i> , 2008, 100, 243003.	2.9	88
17	Atomically resolved phase transition of fullerene cations solvated in helium droplets. <i>Nature Communications</i> , 2016, 7, 13550.	5.8	84
18	Coherent control with shaped femtosecond laser pulses applied to ultracold molecules. <i>Physical Review A</i> , 2006, 73, .	1.0	80

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19	Formation of ultracold LiCs molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S993-S1000.	0.6	75
20	Direct Dynamics Simulations of the Product Channels and Atomistic Mechanisms for the OH ⁺ + CH ₃ Reaction. Comparison with Experiment. Journal of Physical Chemistry A, 2013, 117, 7162-7178.	1.1	73
21	Rotational state-changing cold collisions of hydroxyl ions with helium. Nature Physics, 2015, 11, 467-470.	6.5	70
22	Two- and Three-Body Kinematical Correlation in the Dissociative Recombination of H ₃ ⁺ . Physical Review Letters, 2001, 86, 779-782.	2.9	68
23	Dissociative recombination of vibrationally excited HD ⁺ : State-selective experimental investigation. Physical Review A, 1999, 60, 3769-3785.	1.0	67
24	Action spectroscopy and temperature diagnostics of H ₃ ⁺ by chemical probing. Journal of Chemical Physics, 2004, 121, 11030.	1.2	62
25	Velocity map imaging of ion-molecule reactions. Physical Chemistry Chemical Physics, 2014, 16, 396-405.	1.3	61
26	Ion-Molecule Reaction Dynamics. Annual Review of Physical Chemistry, 2017, 68, 333-353.	4.8	61
27	Nonstandard Behavior of a Negative Ion Reaction at Very Low Temperatures. Physical Review Letters, 2008, 101, 063201.	2.9	59
28	Imaging dynamic fingerprints of competing E2 and SN2 reactions. Nature Communications, 2017, 8, 25.	5.8	59
29	Vibrational and rotational cooling of H ₃ ⁺ . Physical Review A, 2002, 66, .	1.0	57
30	Absolute high-resolution rate coefficients for dissociative recombination of electrons with HD ⁺ : Comparison of results from three heavy-ion storage rings. Physical Review A, 2003, 68, .	1.0	57
31	Photodetachment of Cold OH ⁻ in a Multipole Ion Trap. Physical Review Letters, 2006, 97, 193003.	2.9	56
32	Coherent Transients in the Femtosecond Photoassociation of Ultracold Molecules. Physical Review Letters, 2008, 100, 233003.	2.9	56
33	Simulation studies of the Cl ⁻ + CH ₃ I SN2 nucleophilic substitution reaction: Comparison with ion imaging experiments. Journal of Chemical Physics, 2013, 138, 114309.	1.2	55
34	Reactive collisions of trapped anions with ultracold atoms. Physical Review A, 2012, 86, .	1.0	54
35	Reaction dynamics of temperature-variable anion water clusters studied with crossed beams and by direct dynamics. Faraday Discussions, 2012, 157, 41.	1.6	53
36	PHOTODETACHMENT AS A DESTRUCTION MECHANISM FOR CN ⁻ AND C ₃ N ⁻ ANIONS IN CIRCUMSTELLAR ENVELOPES. Astrophysical Journal, 2013, 776, 25.	1.6	53

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37	Chemical dynamics simulations of the monohydrated OH ⁻ (H ₂ O) + CH ₃ I reaction. Atomic-level mechanisms and comparison with experiment. <i>Journal of Chemical Physics</i> , 2015, 142, 244308.	1.2	53
38	ABSOLUTE PHOTODETACHMENT CROSS-SECTION MEASUREMENTS FOR HYDROCARBON CHAIN ANIONS. <i>Astrophysical Journal</i> , 2011, 742, 63.	1.6	51
39	Imaging the dynamics of ion–molecule reactions. <i>Chemical Society Reviews</i> , 2017, 46, 7498-7516.	18.7	51
40	Dissociative Recombination of HD ⁺ in Selected Vibrational Quantum States. , 1998, 281, 75-78.		50
41	Near-Threshold Photodissociation of Cold CH ⁺ in a Storage Ring. <i>Physical Review Letters</i> , 1998, 80, 2809-2812.	2.9	50
42	Excited-state detachment dynamics and rotational coherences of C ₂ ⁺ via time-resolved photoelectron imaging. <i>Chemical Physics Letters</i> , 2003, 376, 767-775.	1.2	49
43	Time-resolved study of the symmetric S _N 2-reaction I ⁻ +CH ₃ I. <i>Journal of Chemical Physics</i> , 2003, 119, 10032-10039.	1.2	47
44	Internal state thermometry of cold trapped molecular anions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 612-618.	1.3	47
45	Coulomb explosion imaging at the heavy ion storage ring TSR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 413, 379-396.	0.7	44
46	Inverse Temperature Dependent Lifetimes of Transient S _N 2 Ion-Dipole Complexes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10448-10452.	1.1	43
47	Atomistic dynamics of elimination and nucleophilic substitution disentangled for the F ⁻ +CH ₃ CH ₂ Cl reaction. <i>Nature Chemistry</i> , 2021, 13, 977-981.	6.6	43
48	Photodissociation spectroscopy of stored CH ⁺ ions: Detection, assignment, and close-coupled modeling of near-threshold Feshbach resonances. <i>Journal of Chemical Physics</i> , 2002, 117, 8754-8777.	1.2	42
49	On the dynamics of chemical reactions of negative ions. <i>International Reviews in Physical Chemistry</i> , 2010, 29, 589-617.	0.9	42
50	and the Diffuse Interstellar Bands: An Independent Laboratory Check. <i>Astrophysical Journal</i> , 2017, 846, 168.	1.6	42
51	Permanent dipole moment of LiCs in the ground state. <i>Physical Review A</i> , 2010, 82, .	1.0	41
52	An innovative approach to multiparticle three-dimensional imaging. <i>Review of Scientific Instruments</i> , 2000, 71, 3092-3098.	0.6	40
53	Electron-induced vibrational deexcitation of H ₂ ⁺ . <i>Physical Review A</i> , 2000, 62, .	1.0	40
54	Velocity map imaging of ion–molecule reactive scattering: The Ar ⁺⁺ N ₂ charge transfer reaction. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2990-2999.	1.3	40

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55	Absolute photodetachment cross section measurements of the O ⁻ and OH ⁻ anion. Journal of Chemical Physics, 2009, 130, 061105.	1.2	38
56	Influence of a Feshbach resonance on the photoassociation of LiCs. New Journal of Physics, 2009, 11, 055034.	1.2	38
57	Stretching vibration is a spectator in nucleophilic substitution. Science Advances, 2018, 4, eaas9544.	4.7	37
58	Incomplete rotational cooling in a 22-pole ion trap. Journal of Molecular Spectroscopy, 2017, 332, 134-138.	0.4	36
59	Product-state distributions in the dissociative recombination of HeD ⁺ and HeH ⁺ . Physical Review A, 1996, 54, R4617-R4620.	1.0	34
60	Formation of cyanopolyne anions in the interstellar medium: The possible role of permanent dipoles. Journal of Chemical Physics, 2014, 141, 054302.	1.2	34
61	Theoretical model for ultracold molecule formation via adaptive feedback control. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S1001-S1015.	0.6	33
62	A QUANTUM STUDY OF THE CHEMICAL FORMATION OF CYANO ANIONS IN INNER CORES AND DIFFUSE REGIONS OF INTERSTELLAR MOLECULAR CLOUDS. Astrophysical Journal, 2015, 799, 228.	1.6	31
63	Conservation of direct dynamics in sterically hindered S _N 2/E2 reactions. Chemical Science, 2018, 9, 693-701.	3.7	31
64	Differential Scattering Cross-Sections for the Different Product Vibrational States in the Ion-Molecule Reaction $\text{Ar}^+ + \text{N}_2 \rightarrow \text{Ar} + \text{N}_2^+$. Physical Review Letters, 2018, 120, 053001.	2.9	30
65	Exit Channel Dynamics in a Micro-Hydrated S _N 2 Reaction of the Hydroxyl Anion. Journal of Physical Chemistry A, 2013, 117, 8139-8144.	1.1	30
66	High resolution spatial map imaging of a gaseous target. Journal of Chemical Physics, 2013, 138, 214201.	1.2	30
67	Vibrational relaxation in I ₂ ⁺ (Ar) _n (n=1,2,6,9) and I ₂ ⁺ (CO ₂) _n (n=1,4,5) clusters excited by femtosecond stimulated emission pumping. Journal of Chemical Physics, 2003, 119, 2020-2031.	1.2	29
68	Evaporation of Buffer-Gas-Thermalized Anions out of a Multipole rf Ion Trap. Physical Review Letters, 2007, 98, 223001.	2.9	29
69	How can a 22-pole ion trap exhibit ten local minima in the effective potential?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 154007.	0.6	29
70	Effects of molecular rotation in low-energy electron collisions of. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2981-2997.	1.6	28
71	Evaporation of trapped anions studied with a 22-pole ion trap in tandem time-of-flight configuration. Physical Review A, 2008, 78, .	1.0	27
72	Kinematically complete chemical reaction dynamics. Journal of Physics: Conference Series, 2009, 194, 012046.	0.3	27

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73	Photoassociation and coherent transient dynamics in the interaction of ultracold rubidium atoms with shaped femtosecond pulses. II. Theory. <i>Physical Review A</i> , 2009, 80, .	1.0	26
74	Photoassociation and coherent transient dynamics in the interaction of ultracold rubidium atoms with shaped femtosecond pulses. I. Experiment. <i>Physical Review A</i> , 2009, 80, .	1.0	26
75	Nucleophilic Substitution Dynamics: Comparing Wave Packet Calculations with Experiment. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4661-4669.	1.1	26
76	Imaging Proton Transfer and Dihalide Formation Pathways in Reactions of $F^+ + CH_3$. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4711-4719.	1.1	26
77	Rotationally inelastic collisions of H_2^+ ions with He buffer gas: Computing cross sections and rates. <i>Journal of Chemical Physics</i> , 2017, 146, 124310.	1.2	26
78	Isomeric Broadening of C^{60+} Electronic Excitation in Helium Droplets: Experiments Meet Theory. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1237-1242.	2.1	26
79	Curve Crossing and Branching Ratios in the Dissociative Recombination of HD^+ . <i>Physical Review Letters</i> , 1997, 79, 1829-1832.	2.9	25
80	Photoassociation inside an optical dipole trap: absolute rate coefficients and Franck-Condon factors. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 993-999.	1.1	25
81	Saturation of Cs_2 photoassociation in an optical dipole trap. <i>Physical Review A</i> , 2005, 71, .	1.0	25
82	H/D exchange in reactions of OH^+ with D_2 and of OD^+ with H_2 at low temperatures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8732-8739.	1.3	25
83	Ground state of CH_2^+ : Experimental aspects and theoretical implications. <i>Physical Review A</i> , 1999, 59, 1865-1868.	1.0	23
84	Rate Coefficients and Final States for the Dissociative Recombination of LiH^+ . <i>Physical Review Letters</i> , 2001, 86, 4005-4008.	2.9	23
85	Planar multipole ion trap. <i>Physical Review A</i> , 2008, 77, .	1.0	23
86	Photoassociation spectroscopy of the $B^1\Sigma^+$ state of LiCs. <i>Journal of Chemical Physics</i> , 2009, 131, 054304.	1.2	23
87	Charge-transfer dissociation of vibrationally cold HeH^+ : Evidence for and lifetime of the $a^3\Sigma^+$ metastable state. <i>Physical Review A</i> , 2000, 61, .	1.0	22
88	Vibrational relaxation in clusters: Energy transfer in $I_2^+(CO_2)_4$ excited by femtosecond stimulated emission pumping. <i>Journal of Chemical Physics</i> , 2002, 117, 4282-4292.	1.2	22
89	Inelastic collisions of ultracold polar LiCs molecules with caesium atoms in an optical dipole trap. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19101.	1.3	21
90	EXPLORING A CHEMICAL ROUTE FOR THE FORMATION OF STABLE ANIONS OF POLYYNES [C_nH^+ ($n=2, 4$)] IN MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2016, 830, 2.	1.6	21

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91	Coulomb-explosion imaging of CH ₂ ⁺ : Target-polarization effects and bond-angle distribution. Physical Review A, 2004, 69, .	1.0	20
92	Nucleophilic substitution with two reactive centers: The CN ⁺ + CH ₃ I case. Journal of Chemical Physics, 2015, 143, 184309.	1.2	20
93	Terahertz-visible two-photon rotational spectroscopy of cold OD ⁺ . Physical Review A, 2016, 93, .	1.0	20
94	Fifty years of nucleophilic substitution in the gas phase. Mass Spectrometry Reviews, 2022, 41, 627-644.	2.8	20
95	Unexpected Indirect Dynamics in Base-Induced Elimination. Journal of the American Chemical Society, 2019, 141, 20300-20308.	6.6	19
96	Relaxation dynamics of deuterated formyl and isoformyl cations. Journal of Chemical Physics, 2002, 116, 7000-7011.	1.2	18
97	Formation of ultracold dipolar molecules in the lowest vibrational levels by photoassociation. Faraday Discussions, 2009, 142, 335.	1.6	18
98	Radiative lifetime measurement of the $\tilde{X}^1\Sigma^+$ metastable state of NO ⁺ using a new type of electrostatic ion trap. Journal of Chemical Physics, 1999, 110, 11830-11834.	1.2	17
99	Cluster calorimetry by femtosecond stimulated emission pumping: Excitation and evaporative cooling of $\tilde{X}^1(\text{CO}_2)_n$. Physical Review A, 2002, 65, .	1.0	17
100	Computing rotational energy transfers of OD ⁺ /OH ⁺ in collisions with Rb: isotopic effects and inelastic rates at cold ion-trap conditions. New Journal of Physics, 2015, 17, 123003.	1.2	17
101	Vibrational Predissociation Spectroscopy of Cold Protonated Tryptophan with Different Messenger Tags. Journal of Physical Chemistry A, 2018, 122, 8037-8046.	1.1	17
102	A sub-4 Kelvin radio frequency linear multipole wire trap. Review of Scientific Instruments, 2021, 92, 023204.	0.6	17
103	Application of ultrathin diamond-like-carbon targets to Coulomb explosion imaging. Nuclear Instruments & Methods in Physics Research B, 2000, 168, 268-275.	0.6	16
104	Photodissociation spectroscopy of stored CH ⁺ and CD ⁺ ions: Analysis of the $\tilde{X}^1\Sigma^+ - \tilde{X}^1\Sigma^+$ system. Journal of Chemical Physics, 2007, 127, 204304.	1.2	16
105	Preferential Isomer Formation Observed in H ₃ ⁺ + CO by Crossed Beam Imaging. Journal of Physical Chemistry Letters, 2016, 7, 2742-2747.	2.1	16
106	Rotational Spectroscopy of a Triatomic Molecular Anion. Physical Review Letters, 2018, 120, 253003.	2.9	16
107	Thermometry in a Multipole Ion Trap. Applied Sciences (Switzerland), 2020, 10, 5264.	1.3	16
108	Electronic relaxation dynamics of carbon cluster anions: Excitation of the $\tilde{X}^1\Sigma^+ - \tilde{X}^1\Sigma^+$ transition in C ₆ ⁺ . Journal of Chemical Physics, 2001, 115, 11185-11192.	1.2	15

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109	Population redistribution in optically trapped polar molecules. <i>European Physical Journal D</i> , 2011, 65, 99-104.	0.6	15
110	Upper Limits to the Reaction Rate Coefficients of C_n^+ and C_nH^+ ($n = 2, 4, 6$) with Molecular Hydrogen. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6705-6710.	1.1	15
111	Influence of Vibrational Excitation on the Reaction of F^+ with CH_3 : Spectator Mode Behavior, Enhancement, and Suppression. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4331-4336.	2.1	15
112	DISSOCIATIVE RECOMBINATION OF PROTONATED PROPIONITRILE, $CH_3CH_2CNH^+$: IMPLICATIONS FOR TITAN'S UPPER ATMOSPHERE. <i>Astrophysical Journal</i> , 2010, 722, 847-850.	1.6	13
113	Imaging Reaction Dynamics of $F^+(H_2O)$ and $Cl^+(H_2O)$ with CH_3 . <i>Journal of Physical Chemistry A</i> , 2020, 124, 1929-1939.	1.1	13
114	A high-resolution time-of-flight mass spectrometer for the detection of ultracold molecules. <i>Applied Physics B: Lasers and Optics</i> , 2007, 89, 453-457.	1.1	11
115	Imaging state-to-state reactive scattering in the $Ar^+ + H_2$ charge transfer reaction. <i>Journal of Chemical Physics</i> , 2017, 147, 013940.	1.2	11
116	Collisional relaxation kinetics for ortho and para NH_2^+ under photodetachment in cold ion traps. <i>Faraday Discussions</i> , 2018, 212, 117-135.	1.6	11
117	Modeling state-selective photodetachment in cold ion traps: Rotational state crowding in small anions. <i>Journal of Chemical Physics</i> , 2019, 151, 144304.	1.2	11
118	Threshold photodetachment spectroscopy of the astrochemical anion CN^- . <i>Journal of Chemical Physics</i> , 2020, 153, 184309.	1.2	11
119	HeH^+ Collisions with H_2 : Rotationally Inelastic Cross Sections and Rate Coefficients from Quantum Dynamics at Interstellar Temperatures. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2244-2261.	1.1	11
120	Collisional state-changing of OH^+ rotations by interaction with Rb atoms in cold traps. <i>Chemical Physics</i> , 2015, 462, 111-118.	0.9	10
121	Photodetachment spectroscopy of cold trapped NH_2^+ near threshold. <i>Journal of Chemical Physics</i> , 2018, 149, 104302.	1.2	10
122	Rotationally Inelastic Collisions of CN^+ with He: Computing Cross Sections and Rates in the Interstellar Medium. <i>Astrophysical Journal</i> , 2020, 897, 75.	1.6	10
123	Rovibrational quenching of C_2^+ anions in collisions with He, Ne, and Ar atoms. <i>Physical Review A</i> , 2020, 102, .	1.0	10
124	Energy-transfer quantum dynamics of HeH^+ with He atoms: Rotationally inelastic cross sections and rate coefficients. <i>Journal of Chemical Physics</i> , 2021, 154, 054311.	1.2	10
125	Characteristic oscillations in the coherent transients of ultracold rubidium molecules using red and blue detuned pulses for photoassociation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 215307.	0.6	9
126	Dipolar effects and collisions in an ultracold gas of LiCs molecules. <i>Journal of Physics: Conference Series</i> , 2011, 264, 012014.	0.3	9

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127	Isomer-specific product formation in the proton transfer reaction of HOCO ⁺ with CO. Molecular Physics, 2015, 113, 3955-3963.	0.8	9
128	Associative detachment (AD) paths for H and CN ⁺ in the gas-phase: astrophysical implications. Physical Chemistry Chemical Physics, 2018, 20, 5490-5500.	1.3	9
129	Low frequency vibrational anharmonicity and nuclear spin effects of Cl ⁺ (H ₂) and Cl ⁺ (D ₂). Journal of Chemical Physics, 2018, 149, 174310.	1.2	9
130	Modeling Ionic Reactions at Interstellar Temperatures: The Case of NH ₂ ⁺ + H ₂ → NH ₃ + H ⁺ . Journal of Physical Chemistry A, 2019, 123, 9905-9918. ^{1,1}		9
131	Rotational state-changing collisions of C ₂ H ⁺ and C ₂ N ⁺ anions with He under interstellar and cold ion trap conditions: A computational comparison. Journal of Chemical Physics, 2020, 152, 234303.	1.2	9
132	Influence of a Supercritical Electric Dipole Moment on the Photodetachment of $C_2N_3^+$. Physical Review Letters, 2021, 127, 043001.	2.9	9
133	Electron collisions and rovibrational action spectroscopy of cold H ₃ ⁺ molecules. Journal of Physics: Conference Series, 2007, 88, 012064.	0.3	8
134	Dissociative recombination of the acetaldehyde cation, CH ₃ CHO ⁺ . Physical Chemistry Chemical Physics, 2010, 12, 11670.	1.3	8
135	Properties of a multipole ion trap studied by evaporative ion losses. International Journal of Mass Spectrometry, 2014, 365-366, 281-286.	0.7	8
136	Complex formation and internal proton-transfer of hydroxyl-hydrogen anion complexes at low temperature. New Journal of Physics, 2015, 17, 075013.	1.2	8
137	Formation of Anionic C, N-bearing Chains in the Interstellar Medium via Reactions of H ⁺ with HC _x N for Odd-valued x from 1 to 7. Astrophysical Journal, 2017, 850, 42.	1.6	8
138	Anionic Carbon Chain Growth in Reactions of C_2H^+ , C_4H^+ , and C_6H^+ with C_2H_2 . Astrophysical Journal, 2019, 878, 162.	1.6	8
139	Vibrational overtone spectroscopy of cold trapped hydroxyl anions. Physical Review A, 2020, 102, .	1.0	8
140	Proton transfer dynamics modified by CH-stretching excitation. Physical Chemistry Chemical Physics, 2020, 22, 12382-12388.	1.3	8
141	Collision-driven state-changing efficiency of different buffer gases in cold traps: He(¹ S), Ar(¹ S) and p-H ₂ (¹ Σ ⁺) on trapped CN ⁺ (¹ Σ ⁺). Physical Chemistry Chemical Physics, 2021, 23, 7703-7713.	1.3	8
142	Photodissociation spectroscopy of OH ⁺ molecular ions at the TSR storage ring. , 2000, 127, 267-270.		7
143	Modeling Quantum Kinetics in Ion Traps: State-changing Collisions for OH ⁺ (³ Σ ⁻) Ions with He as a Buffer Gas. ChemPhysChem, 2018, 19, 1866-1875.	1.0	7
144	The H ₂ ⁺ + He proton transfer reaction: quantum reactive differential cross sections to be linked with future velocity mapping experiments. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 014004.	0.6	7

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145	Rotationally inelastic processes of C_2^+ (Σ_g^+) colliding with He (1 S) at low temperatures: ab initio interaction potential, state changing rates and kinetic modelling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 025201.	0.6	7
146	On the Formation of Interstellar CH^+ Anions: Exploring Mechanism and Rates for CH_2 Reacting with H^+ . <i>Journal of Physical Chemistry A</i> , 2020, 124, 5098-5108.	1.1	7
147	$\text{F}^+(\text{H}_2\text{O})+\text{CH}_3$ ligand exchange reaction dynamics. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 210-216.	0.6	7
148	Threshold Effects and Ion-Pair Production in the Dissociative Recombination of HD^+ . <i>Physical Review Letters</i> , 1999, 83, 4979-4982.	2.9	6
149	Towards state selective measurements of the H_3 +dissociative recombination rate coefficient. <i>Journal of Physics: Conference Series</i> , 2005, 4, 126-133.	0.3	6
150	Optimal control of multiphoton ionization of Rb_2 molecules in a magneto-optical trap. <i>Physical Review A</i> , 2007, 76, .	1.0	6
151	Modelling the role of electron attachment rates on column density ratios for C_nH^+ / C_nH ($n=4,6,8$) in dense molecular clouds. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 204003.	0.6	6
152	Upper limit of a tunneling reaction rate for D^+H_2 . <i>Physical Review A</i> , 2017, 95, .	1.0	6
153	Shape and strength of dynamical couplings between vibrational levels of the H_2^+ , HD^+ and D_2^+ molecular ions in collision with He as a buffer gas. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	6
154	HC_nN^+ anions in the ISM: exploring their existence and new paths to anionic carbonitriles for $n = 3, 5$. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11405-11415.	1.3	6
155	Thermalisation of C_2^+ with noble gases in cold ion traps. <i>International Journal of Mass Spectrometry</i> , 2020, 457, 116426.	0.7	6
156	Complex Formation in Three-Body Reactions of Cl^+ with H_2 . <i>Journal of Physical Chemistry A</i> , 2021, 125, 8581-8586.	1.1	6
157	Associative detachment in anion-atom reactions involving a dipole-bound electron. <i>Nature Communications</i> , 2022, 13, 818.	5.8	6
158	Kinematically complete reaction dynamics of slow ions. <i>Journal of Physics: Conference Series</i> , 2007, 88, 012025.	0.3	5
159	Rotationally inelastic cross sections, rates and cooling times for para- H_2^+ , ortho- D_2^+ and HD^+ in cold helium gas. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	5
160	Collisional cooling of internal rotation in MgH^+ ions trapped with He atoms: Quantum modeling meets experiments in Coulomb crystals. <i>Physical Review A</i> , 2018, 98, .	1.0	5
161	Dynamics of proton transfer from ArH^+ to CO. <i>International Journal of Mass Spectrometry</i> , 2019, 438, 175-185.	0.7	5
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