

Roland Wester

List of Publications by Year in descending order

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206
papers

6,862
citations

57719

44
h-index

76872

74
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209
all docs

209
docs citations

209
times ranked

3637
citing authors

#	ARTICLE	IF	CITATIONS
1	Fifty years of nucleophilic substitution in the gas phase. <i>Mass Spectrometry Reviews</i> , 2022, 41, 627-644.	2.8	20
2	Quantum state-dependent anion-neutral detachment processes. <i>Journal of Chemical Physics</i> , 2022, 156, 094304.	1.2	1
3	Experimental lifetime of the $a1^{\pi}$ electronically excited state of CH^+ . <i>Physical Review Research</i> , 2022, 4, .	1.3	2
4	Associative detachment in anion-atom reactions involving a dipole-bound electron. <i>Nature Communications</i> , 2022, 13, 818.	5.8	6
5	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
6	Charge transfer dynamics in $Ar^{+} + CO$. <i>Molecular Physics</i> , 2021, 119, e1815885.	0.8	2
7	Collision-driven state-changing efficiency of different buffer gases in cold traps: $He(^1S)$, $Ar(^1S)$ and $p-H_2(^1\Sigma)$ on trapped $CN^{\tilde{a}}(^1\Sigma)$. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7703-7713.	1.3	8
8	A sub-4 Kelvin radio frequency linear multipole wire trap. <i>Review of Scientific Instruments</i> , 2021, 92, 023204.	0.6	17
9	Vibrational quenching of $CN^{\tilde{a}}$ in collisions with He and Ar. <i>Journal of Chemical Physics</i> , 2021, 154, 084305.	1.2	5
10	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
11	Dynamics of $HeHHe^{+}$ Rotational State Changes Induced by Collision with He: A Possible New Path in Early Universe Chemistry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3748-3759.	1.1	4
12	Suppression of low product kinetic energies in reactions of $FHO^{\tilde{a}}$ and $Cl^{\tilde{a}}(H_2O)$ with CH_3I . <i>International Journal of Mass Spectrometry</i> , 2021, 462, 116526.	0.7	4
13	Temperature-dependent rotationally inelastic collisions of OH and He. <i>Physical Review A</i> , 2021, 103, .		
14	Multiple helium tagging and OH vibrational spectroscopy of cold protonated glycine ions. <i>Journal of Molecular Spectroscopy</i> , 2021, 379, 111479.	0.4	3
15	Influence of a Supercritical Electric Dipole Moment on the Photodetachment of $CN^{\tilde{a}}$. <i>Physical Review Letters</i> , 2021, 127, 043001.	2.9	9
16	Atomistic dynamics of elimination and nucleophilic substitution disentangled for the $F^{\tilde{a}} + CH_3CH_2Cl$ reaction. <i>Nature Chemistry</i> , 2021, 13, 977-981.	6.6	43
17	Complex Formation in Three-Body Reactions of $Cl^{\tilde{e}}$ with H_2 . <i>Journal of Physical Chemistry A</i> , 2021, 125, 8581-8586.	1.1	6
18	Efficiency of rovibrational cooling of HeH^{+} by collisions with He: Cross sections and rate coefficients from quantum dynamics. <i>Journal of Chemical Physics</i> , 2021, 155, 154301.	1.2	2

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19	Strong ortho/para effects in the vibrational spectrum of Cl-(H ₂). Journal of Chemical Physics, 2021, 155, 241101.	1.2	5
20	Rotationally inelastic processes of C_2^- ($\text{C}_2^{\text{Sigma}^-}$) colliding with He (1 S) at low temperatures: ab initio interaction potential, state changing rates and kinetic modelling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 025201.	0.6	7
21	Rotationally Inelastic Collisions of CN ⁺ with He: Computing Cross Sections and Rates in the Interstellar Medium. Astrophysical Journal, 2020, 897, 75.	1.6	10
22	Structural properties of possible interstellar valence anions of the series HCnN ⁺ (n = 3, 5, 7, 9). Physical Chemistry Chemical Physics, 2020, 22, 17263-17274.	1.3	1
23	Thermometry in a Multipole Ion Trap. Applied Sciences (Switzerland), 2020, 10, 5264.	1.3	16
24	Rovibrational quenching of C ₂ ⁺ anions in collisions with He, Ne, and Ar atoms. Physical Review A, 2020, 102, .	1.0	10
25	Thermalisation of C ₂ ⁺ with noble gases in cold ion traps. International Journal of Mass Spectrometry, 2020, 457, 116426.	0.7	6
26	Vibrational overtone spectroscopy of cold trapped hydroxyl anions. Physical Review A, 2020, 102, .	1.0	8
27	Influence of Vibrational Excitation on the Reaction of F ⁺ with CH ₃ I: Spectator Mode Behavior, Enhancement, and Suppression. Journal of Physical Chemistry Letters, 2020, 11, 4331-4336.	2.1	15
28	On the Formation of Interstellar CH ⁺ Anions: Exploring Mechanism and Rates for CH ₂ Reacting with H ⁺ . Journal of Physical Chemistry A, 2020, 124, 5098-5108.	1.1	7
29	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
30	Imaging Reaction Dynamics of F ⁺ (H ₂ O) and Cl ⁺ (H ₂ O) with CH ₃ I. Journal of Physical Chemistry A, 2020, 124, 1929-1939.	1.1	13
31	Time-Dependent Perspective for the Intramolecular Couplings of the N-H Stretches of Protonated Tryptophan. Journal of Physical Chemistry A, 2020, 124, 4062-4067.	1.1	1
32	Proton transfer dynamics modified by CH-stretching excitation. Physical Chemistry Chemical Physics, 2020, 22, 12382-12388.	1.3	8
33	F ⁺ (H ₂ O)+CH ₃ I ligand exchange reaction dynamics. Chinese Journal of Chemical Physics, 2020, 33, 210-216.	0.6	7
34	Threshold photodetachment spectroscopy of the astrochemical anion CN ⁺ . Journal of Chemical Physics, 2020, 153, 184309.	1.2	11
35	Photodetachment in cold ion traps. European Physical Journal D, 2020, 74, 1.	0.6	1
36	Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513.	1.6	1

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37	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	1.6	1
38	Pushing resolution in frequency and time: general discussion. Faraday Discussions, 2019, 217, 290-321.	1.6	1
39	Exotic systems: general discussion. Faraday Discussions, 2019, 217, 601-622.	1.6	0
40	Near-threshold photodissociation of cool OH ⁺ to O + H ⁺ and O ⁺ + H. Journal of Chemical Physics, 2019, 151, 044303.	1.2	3
41	Modeling state-selective photodetachment in cold ion traps: Rotational state "crowding" in small anions. Journal of Chemical Physics, 2019, 151, 144304.	1.2	11
42	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
43	Too slow to be activated. Nature Chemistry, 2019, 11, 600-601.	6.6	0
44	Anionic Carbon Chain Growth in Reactions of C ₂ H ⁺ , C ₄ H ⁺ , and C ₆ H ⁺ with C ₂ H ₂ . Astrophysical Journal, 2019, 878, 162.	1.6	8
45	HC _n N anions in the ISM: exploring their existence and new paths to anionic carbonitriles for <i>n</i> = 3, 5. Physical Chemistry Chemical Physics, 2019, 21, 11405-11415.	1.3	6
46	Collisional Quantum Dynamics for MgH ⁺ (1 ¹ Σ ⁺) With He as a Buffer Gas: Ionic State-Changing Reactions in Cold Traps. Frontiers in Chemistry, 2019, 7, 64.	1.8	3
47	Dipole-bound states contribution to the formation of anionic carbonitriles in the ISM: Calculations using multireference methods for C ₃ N ⁻ . Advances in Quantum Chemistry, 2019, 80, 47-86.	0.4	2
48	Unexpected Indirect Dynamics in Base-Induced Elimination. Journal of the American Chemical Society, 2019, 141, 20300-20308.	6.6	19
49	Dynamics of proton transfer from ArH ⁺ to CO. International Journal of Mass Spectrometry, 2019, 438, 175-185.	0.7	5
50	Correlation between the velocity scattering angle and product relative translational energy for SN2 reactions. Comparison of experiments and direct dynamics simulations. International Journal of Mass Spectrometry, 2019, 438, 115-123.	0.7	5
51	Isomeric Broadening of C ₆₀ ⁺ Electronic Excitation in Helium Droplets: Experiments Meet Theory. Journal of Physical Chemistry Letters, 2018, 9, 1237-1242.	2.1	26
52	Quantum-tunneling isotope-exchange reaction $H_2 + D \rightarrow HD + H$. Physical Review A, 2018, 97, .		
53	Modeling Quantum Kinetics in Ion Traps: State-changing Collisions for OH ⁺ (3 ¹ Σ ⁻) Ions with He as a Buffer Gas. ChemPhysChem, 2018, 19, 1866-1875.	1.0	7
54	Rotational "cooling" and "heating" of OH ⁺ (3 ¹ Σ ⁻) by collisions with He: quantum dynamics revealing propensity rules under ion trap conditions. Molecular Physics, 2018, 116, 2686-2697.	0.8	4

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55	The H ₂ ⁺ + He proton transfer reaction: quantum reactive differential cross sections to be linked with future velocity mapping experiments. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 014004.	0.6	7
56	Same object, different symmetry. <i>Nature Physics</i> , 2018, 14, 113-114.	6.5	1
57	Associative detachment (AD) paths for H and CN ⁺ in the gas-phase: astrophysical implications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5490-5500.	1.3	9
58	Conservation of direct dynamics in sterically hindered S _N 2/E2 reactions. <i>Chemical Science</i> , 2018, 9, 693-701.	3.7	31
59	Precise characterisation of isolated molecules: general discussion. <i>Faraday Discussions</i> , 2018, 212, 137-155.	1.6	1
60	Quantum dynamics of isolated molecules: general discussion. <i>Faraday Discussions</i> , 2018, 212, 281-306.	1.6	0
61	Low frequency vibrational anharmonicity and nuclear spin effects of Cl ⁺ (H ₂) and Cl ⁺ (D ₂). <i>Journal of Chemical Physics</i> , 2018, 149, 174310.	1.2	9
62	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
63	Photodetachment spectroscopy of cold trapped NH ₂ ⁺ near threshold. <i>Journal of Chemical Physics</i> , 2018, 149, 104302.	1.2	10
64	Vibrational Predissociation Spectroscopy of Cold Protonated Tryptophan with Different Messenger Tags. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8037-8046.	1.1	17
65	NH ₂ ⁺ in a cold ion trap with He buffer gas: Ab initio quantum modeling of the interaction potential and of state-changing multichannel dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 184305.	1.2	4
66	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
67	Rotational Spectroscopy of a Triatomic Molecular Anion. <i>Physical Review Letters</i> , 2018, 120, 253003.	2.9	16
68	Stretching vibration is a spectator in nucleophilic substitution. <i>Science Advances</i> , 2018, 4, eaas9544.	4.7	37
69	Incomplete rotational cooling in a 22-pole ion trap. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 134-138.	0.4	36
70	Ion-Molecule Reaction Dynamics. <i>Annual Review of Physical Chemistry</i> , 2017, 68, 333-353.	4.8	61
71	Imaging dynamic fingerprints of competing E2 and S _N 2 reactions. <i>Nature Communications</i> , 2017, 8, 25.	5.8	59
72	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

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73	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
74	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
75	Upper limit of a tunnelling reaction rate for $\text{C}^+ + \text{D} \rightarrow \text{C} + \text{D}^+$. <i>Physical Review A</i> , 2017, 95, .	1.0	6
76	Investigating the electronic properties and structural features of MgH and of MgH^- anions. <i>Physical Review A</i> , 2017, 96, .	1.0	6
77	and the Diffuse Interstellar Bands: An Independent Laboratory Check. <i>Astrophysical Journal</i> , 2017, 846, 168.	1.6	42
78	Imaging the dynamics of ion-molecule reactions. <i>Chemical Society Reviews</i> , 2017, 46, 7498-7516.	18.7	51
79	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
80	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. <i>Astrophysical Journal</i> , 2017, 850, 42.	1.6	8
81	Modelling the role of electron attachment rates on column density ratios for C _n H ⁺ /C _n H (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
82	State-changing processes for ions in cold traps: LiH ⁺ molecules colliding with He as a buffer gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 235201.	0.6	3
83	EXPLORING A CHEMICAL ROUTE FOR THE FORMATION OF STABLE ANIONS OF POLYNYNES [C _n H ⁺ (n=2, 4)] IN MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2016, 830, 2.	1.6	21
84	Atomically resolved phase transition of fullerene cations solvated in helium droplets. <i>Nature Communications</i> , 2016, 7, 13550.	5.8	84
85	COLD MOLECULAR IONS IN TRAPS. <i>Advanced Textbooks in Physics</i> , 2016, , 321-334.	0.1	1
86	Preferential Isomer Formation Observed in H ₃ ⁺ + CO by Crossed Beam Imaging. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2742-2747.	2.1	16
87	Terahertz-visible two-photon rotational spectroscopy of cold OD. <i>Physical Review A</i> , 2016, 93, .	1.0	6
88	Exploring a dynamical path for C ₂ H ⁺ and NCO ⁺ formation in dark molecular clouds. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	3
89	Imaging Proton Transfer and Dihalide Formation Pathways in Reactions of F ⁺ + CH ₃ I. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4711-4719.	1.1	26
90	Forming NCO ⁺ in Dense Molecular Clouds: Possible Gas-Phase Chemical Paths From Quantum Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4693-4701.	1.1	3

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91	Influence of the leaving group on the dynamics of a gas-phase SN2 reaction. <i>Nature Chemistry</i> , 2016, 8, 151-156.	6.6	116
92	Nucleophilic substitution with two reactive centers: The CN ⁻ + CH3I case. <i>Journal of Chemical Physics</i> , 2015, 143, 184309.	1.2	20
93	Chemical dynamics simulations of the monohydrated OH ⁻ (H2O) + CH3I reaction. Atomic-level mechanisms and comparison with experiment. <i>Journal of Chemical Physics</i> , 2015, 142, 244308.	1.2	53
94	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
95	Computing rotational energy transfers of OD ⁻ /OH ⁻ in collisions with Rb: isotopic effects and inelastic rates at cold ion-trap conditions. <i>New Journal of Physics</i> , 2015, 17, 123003.	1.2	17
96	Rotational state-changing cold collisions of hydroxyl ions with helium. <i>Nature Physics</i> , 2015, 11, 467-470.	6.5	70
97	A QUANTUM STUDY OF THE CHEMICAL FORMATION OF CYANO ANIONS IN INNER CORES AND DIFFUSE REGIONS OF INTERSTELLAR MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2015, 799, 228.	1.6	31
98	Isomer-specific product formation in the proton transfer reaction of HOCO ⁺ with CO. <i>Molecular Physics</i> , 2015, 113, 3955-3963.	0.8	9
99	Complex formation and internal proton-transfer of hydroxyl-hydrogen anion complexes at low temperature. <i>New Journal of Physics</i> , 2015, 17, 075013.	1.2	8
100	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
101	THE 2014 KIDA NETWORK FOR INTERSTELLAR CHEMISTRY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 20.	3.0	291
102	Cross sections for energetic heavy-ion impact on protonated water clusters. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 251-255.	1.1	1
103	Properties of a multipole ion trap studied by evaporative ion losses. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 281-286.	0.7	8
104	Formation of cyanopolyynes anions in the interstellar medium: The possible role of permanent dipoles. <i>Journal of Chemical Physics</i> , 2014, 141, 054302.	1.2	34
105	Nucleophilic Substitution Dynamics: Comparing Wave Packet Calculations with Experiment. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4661-4669.	1.1	26
106	Identification of Atomic-Level Mechanisms for Gas-Phase X ⁺ + CH ₃ Y S _N 2 Reactions by Combined Experiments and Simulations. <i>Accounts of Chemical Research</i> , 2014, 47, 2960-2969.	7.6	127
107	Upper Limits to the Reaction Rate Coefficients of C _n ⁺ and C _n H ⁺ (n = 2, 4, 6) with Molecular Hydrogen. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6705-6710.	1.1	15
108	Velocity map imaging of ion-molecule reactions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 396-405.	1.3	61

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109	Direct Dynamics Simulations of the Product Channels and Atomistic Mechanisms for the OH ⁺ + CH ₃ I Reaction. Comparison with Experiment. Journal of Physical Chemistry A, 2013, 117, 8139-8144.	1.1	73
110	Differential Scattering Cross Sections for the Different Product Vibrational States in the Ion-Molecule Reaction $\text{Ar}^+ + \text{CH}_3\text{I} \rightarrow \text{Ar} + \text{CH}_3^+ + \text{I}^-$. Physical Review Letters, 2013, 110, 133201.	2.9	30
111	Internal state thermometry of cold trapped molecular anions. Physical Chemistry Chemical Physics, 2013, 15, 612-618.	1.3	47
112	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
113	Indirect Dynamics in a Highly Exoergic Substitution Reaction. Journal of the American Chemical Society, 2013, 135, 4250-4259.	6.6	94
114	Simulation studies of the Cl ⁻ + CH ₃ I S _N 2 nucleophilic substitution reaction: Comparison with ion imaging experiments. Journal of Chemical Physics, 2013, 138, 114309.	1.2	55
115	High resolution spatial map imaging of a gaseous target. Journal of Chemical Physics, 2013, 138, 214201.	1.2	30
116	PHOTODETACHMENT AS A DESTRUCTION MECHANISM FOR CN ⁻ AND C ₃ N ⁻ ANIONS IN CIRCUMSTELLAR ENVELOPES. Astrophysical Journal, 2013, 776, 25.	1.6	53
117	A KINETIC DATABASE FOR ASTROCHEMISTRY (KIDA). Astrophysical Journal, Supplement Series, 2012, 199, 21.	3.0	436
118	Reactive collisions of trapped anions with ultracold atoms. Physical Review A, 2012, 86, .	1.0	54
119	Reaction dynamics of temperature-variable anion water clusters studied with crossed beams and by direct dynamics. Faraday Discussions, 2012, 157, 41.	1.6	53
120	Ultracold Molecules Formed by Photoassociation: Heteronuclear Dimers, Inelastic Collisions, and Interactions with Ultrashort Laser Pulses. Chemical Reviews, 2012, 112, 4890-4927.	23.0	111
121	Single solvent molecules can affect the dynamics of substitution reactions. Nature Chemistry, 2012, 4, 534-538.	6.6	132
122	Inelastic collisions of ultracold polar LiCs molecules with caesium atoms in an optical dipole trap. Physical Chemistry Chemical Physics, 2011, 13, 19101.	1.3	21
123	Dipolar effects and collisions in an ultracold gas of LiCs molecules. Journal of Physics: Conference Series, 2011, 264, 012014.	0.3	9
124	ABSOLUTE PHOTODETACHMENT CROSS-SECTION MEASUREMENTS FOR HYDROCARBON CHAIN ANIONS. Astrophysical Journal, 2011, 742, 63.	1.6	51
125	Population redistribution in optically trapped polar molecules. European Physical Journal D, 2011, 65, 99-104.	0.6	15
126	Nanosecond photofragment imaging of adiabatic molecular alignment. Journal of Chemical Physics, 2011, 134, 104306.	1.2	3

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127	DISSOCIATIVE RECOMBINATION OF PROTONATED PROPIONITRILE, $\text{CH}_3\text{CH}_2\text{CNH}^+$: IMPLICATIONS FOR TITAN'S UPPER ATMOSPHERE. <i>Astrophysical Journal</i> , 2010, 722, 847-850.	1.6	13
128	Stop moving!. <i>Physics Magazine</i> , 2010, 3, .	0.1	1
129	Permanent dipole moment of LiCs in the ground state. <i>Physical Review A</i> , 2010, 82, .	1.0	41
130	Storage of protonated water clusters in a biplanar multipole rf trap. <i>New Journal of Physics</i> , 2010, 12, 065035.	1.2	3
131	On the dynamics of chemical reactions of negative ions. <i>International Reviews in Physical Chemistry</i> , 2010, 29, 589-617.	0.9	42
132	$\text{F}^+ + \text{CH}_3\text{I} \rightarrow \text{FCH}_3 + \text{I}^+$ 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
133	Dissociative recombination of the acetaldehyde cation, CH_3CHO^+ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11670.	1.3	8
134	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
135	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
136	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
137	Absolute photodetachment cross section measurements of the O^- and OH^- anion. <i>Journal of Chemical Physics</i> , 2009, 130, 061105.	1.2	38
138	How can a 22-pole ion trap exhibit ten local minima in the effective potential?. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 154007.	0.6	29
139	Spectrally resolved coherent transient signal for ultracold rubidium molecules. <i>European Physical Journal D</i> , 2009, 54, 711-714.	0.6	4
140	Influence of a Feshbach resonance on the photoassociation of LiCs. <i>New Journal of Physics</i> , 2009, 11, 055034.	1.2	38
141	Photoassociation spectroscopy of the Σ^+ state of LiCs. <i>Journal of Chemical Physics</i> , 2009, 131, 054304.	1.2	23
142	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
143	Formation of ultracold dipolar molecules in the lowest vibrational levels by photoassociation. <i>Faraday Discussions</i> , 2009, 142, 335.	1.6	18
144	Kinematically complete chemical reaction dynamics. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012046.	0.3	27

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145	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
146	Evaporation of trapped anions studied with a 22-pole ion trap in tandem time-of-flight configuration. <i>Physical Review A</i> , 2008, 78, .	1.0	27
147	Formation of Ultracold Polar Molecules in the Rovibrational Ground State. <i>Physical Review Letters</i> , 2008, 101, 133004.	2.9	517
148	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
149	Imaging Nucleophilic Substitution Dynamics. <i>Science</i> , 2008, 319, 183-186.	6.0	307
150	Probing Isotope Effects in Chemical Reactions Using Single Ions. <i>Physical Review Letters</i> , 2008, 100, 243003.	2.9	88
151	Coherent Transients in the Femtosecond Photoassociation of Ultracold Molecules. <i>Physical Review Letters</i> , 2008, 100, 233003.	2.9	56
152	The interaction of a spectrally cut laser-pulse with a two-level atom. <i>Journal of Modern Optics</i> , 2008, 55, 3359-3368.	0.6	4
153	Nonstandard Behavior of a Negative Ion Reaction at Very Low Temperatures. <i>Physical Review Letters</i> , 2008, 101, 063201.	2.9	59
154	Planar multipole ion trap. <i>Physical Review A</i> , 2008, 77, .	1.0	23
155	Optimal control of multiphoton ionization of Rb_2 molecules in a magneto-optical trap. <i>Physical Review A</i> , 2007, 76, .	1.0	6
156	Evaporation of Buffer-Gas-Thermalized Anions out of a Multipole rf Ion Trap. <i>Physical Review Letters</i> , 2007, 98, 223001.	2.9	29
157	Electron collisions and rovibrational action spectroscopy of cold H_{3+} molecules. <i>Journal of Physics: Conference Series</i> , 2007, 88, 012064.	0.3	8
158	Kinematically complete reaction dynamics of slow ions. <i>Journal of Physics: Conference Series</i> , 2007, 88, 012025.	0.3	5
159	Photodissociation spectroscopy of stored CH^+ and CD^+ ions: Analysis of the $b^1\Sigma^+ - a^1\Sigma^+$ system. <i>Journal of Chemical Physics</i> , 2007, 127, 204304.	1.2	16
160	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
161	Coherent control with shaped femtosecond laser pulses applied to ultracold molecules. <i>Physical Review A</i> , 2006, 73, .	1.0	80
162	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

#	ARTICLE	IF	CITATIONS
163	Formation of ultracold LiCs molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S993-S1000.	0.6	75
164	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
165	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
166	Photodetachment of ColdOH ⁺ in a Multipole Ion Trap. Physical Review Letters, 2006, 97, 193003.	2.9	56
167	Experimental Investigation of Ultracold Atom-Molecule Collisions. Physical Review Letters, 2006, 96, 023201.	2.9	121
168	Towards state selective measurements of the H ₃ ⁺ dissociative recombination rate coefficient. Journal of Physics: Conference Series, 2005, 4, 126-133.	0.3	6
169	Wake effects in the evolution of fast molecular ions through thin foils. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 41-45.	0.6	4
170	Saturation of Cs ₂ photoassociation in an optical dipole trap. Physical Review A, 2005, 71, .	1.0	25
171	High-Resolution Dissociative Recombination of Cold H ₃ ⁺ and First Evidence for Nuclear Spin Effects. Physical Review Letters, 2005, 95, 263201.	2.9	106
172	Coulomb-explosion imaging of CH ₂ ⁺ : Target-polarization effects and bond-angle distribution. Physical Review A, 2004, 69, .	1.0	20
173	Action spectroscopy and temperature diagnostics of H ₃ ⁺ by chemical probing. Journal of Chemical Physics, 2004, 121, 11030.	1.2	62
174	Photoassociation inside an optical dipole trap: absolute rate coefficients and Franck-Condon factors. Applied Physics B: Lasers and Optics, 2004, 79, 993-999.	1.1	25
175	Excited-state detachment dynamics and rotational coherences of C ₂ ⁺ via time-resolved photoelectron imaging. Chemical Physics Letters, 2003, 376, 767-775.	1.2	49
176	Time-resolved study of the symmetric S _N 2-reaction I ⁺ +CH ₃ I. Journal of Chemical Physics, 2003, 119, 10032-10039.	1.2	47
177	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
178	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
179	Time-resolved photoelectron imaging of the photodissociation of I ₂ ⁺ . Journal of Chemical Physics, 2003, 118, 999-1002.	1.2	93
180	Electron Induced Vibrational Deexcitation of the Molecular Ions H ₂ ⁺ and D ₂ ⁺ . , 2003, , 127-138.		5

#	ARTICLE	IF	CITATIONS
181	Coulomb-Explosion Imaging Studies of Molecular Relaxation and Rearrangement. Springer Series on Atomic, Optical, and Plasma Physics, 2003, , 411-427.	0.1	1
182	Cluster calorimetry by femtosecond stimulated emission pumping: Excitation and evaporative cooling of $\text{I}_2^+(\text{CO}_2)_n$. Physical Review A, 2002, 65, .	1.0	17
183	Relaxation dynamics of deuterated formyl and isoformyl cations. Journal of Chemical Physics, 2002, 116, 7000-7011.	1.2	18
184	Vibrational and rotational cooling of H_3^+ . Physical Review A, 2002, 66, .	1.0	57
185	Photodissociation spectroscopy of stored CH^+ ions: Detection, assignment, and close-coupled modeling of near-threshold Feshbach resonances. Journal of Chemical Physics, 2002, 117, 8754-8777.	1.2	42
186	Vibrational relaxation in clusters: Energy transfer in $\text{I}_2^+(\text{CO}_2)_4$ excited by femtosecond stimulated emission pumping. Journal of Chemical Physics, 2002, 117, 4282-4292.	1.2	22
187	Electronic relaxation dynamics of carbon cluster anions: Excitation of the $\text{C}_6^{\text{H}^-}$ transition in $\text{C}_6^{\text{H}^-}$. Journal of Chemical Physics, 2001, 115, 11185-11192.	1.2	15
188	Two- and Three-Body Kinematical Correlation in the Dissociative Recombination of H_3^+ . Physical Review Letters, 2001, 86, 779-782.	2.9	68
189	Rate Coefficients and Final States for the Dissociative Recombination of LiH^+ . Physical Review Letters, 2001, 86, 4005-4008.	2.9	23
190	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
191	Photodissociation spectroscopy of OH^+ molecular ions at the TSR storage ring. , 2000, 127, 267-270.		7
192	An innovative approach to multiparticle three-dimensional imaging. Review of Scientific Instruments, 2000, 71, 3092-3098.	0.6	40
193	Charge-transfer dissociation of vibrationally cold HeH^+ : Evidence for and lifetime of the 3H^+ metastable state. Physical Review A, 2000, 61, .	1.0	22
194	Electron-induced vibrational deexcitation of H_2^+ . Physical Review A, 2000, 62, .	1.0	40
195	Molecular structure by Coulomb explosion imaging of stored molecular ions. , 1999, , .		0
196	Threshold Effects and Ion-Pair Production in the Dissociative Recombination of HD^+ . Physical Review Letters, 1999, 83, 4979-4982.	2.9	6
197	Dissociative recombination of vibrationally excited HD^+ : State-selective experimental investigation. Physical Review A, 1999, 60, 3769-3785.	1.0	67
198	Ground state of CH_2^+ : Experimental aspects and theoretical implications. Physical Review A, 1999, 59, 1865-1868.	1.0	23

#	ARTICLE	IF	CITATIONS
199	Radiative lifetime measurement of the $\tilde{\epsilon}^3\Sigma^+$ metastable state of NO+ using a new type of electrostatic ion trap. Journal of Chemical Physics, 1999, 110, 11830-11834.	1.2	17
200	Coulomb explosion imaging at the heavy ion storage ring TSR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 413, 379-396.	0.7	44
201	Dissociative Recombination of HD+ in Selected Vibrational Quantum States. , 1998, 281, 75-78.		50
202	Near-Threshold Photodissociation of Cold CH+ in a Storage Ring. Physical Review Letters, 1998, 80, 2809-2812.	2.9	50
203	Curve Crossing and Branching Ratios in the Dissociative Recombination of HD+. Physical Review Letters, 1997, 79, 1829-1832.	2.9	25
204	Product-state distributions in the dissociative recombination of HeD+ and HeH+. Physical Review A, 1996, 54, R4617-R4620.	1.0	34
205	Beyond the helium buffer: $^{12}\text{C}^{12}$ rotational cooling in cold traps with H ₂ as a partner gas: interaction forces and quantum dynamics. Molecular Physics, 0, , e1938267.	0.8	2
206	Predissociation spectroscopy of cold CN ^{\tilde{a}''} H ₂ and CN ^{\tilde{a}''} D ₂ . Molecular Physics, 0, , .	0.8	3