

Frédéric Merkt

List of Publications by Year in descending order

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211
papers

6,499
citations

57631

44
h-index

95083

68
g-index

221
all docs

221
docs citations

221
times ranked

2458
citing authors

#	ARTICLE	IF	CITATIONS
1	Multipole-moment effects in ion- molecule reactions at low temperatures: part II – charge-quadrupole-interaction-induced suppression of the $\text{He} + \text{N}_2$ reaction at collision energies below ~ 10 K. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2843-2858.	1.3	8
2	Reactions of H_2 , HD, and D_2 with H_2^+ , HD^+ , and D_2^+ : Product-Channel Branching Ratios and Simple Models. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 864-871.	2.1	8
3	Improved ionization and dissociation energies of the deuterium molecule. <i>Physical Review A</i> , 2022, 105, .	1.0	15
4	Structure and dynamics of HD in the vicinity of the $\text{H} + \text{D}$ and $\text{D} + \text{H}$ dissociation thresholds: Feshbach resonances and the role of g/u -symmetry breaking. <i>Molecular Physics</i> , 2022, 120, .	0.8	2
5	Characterization of the electronic ground state of Mg^+ by PFI-ZEKE photoelectron spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2022, 385, 111591.	0.4	0
6	Threshold-ion-pair-production spectroscopy of H_2S and D_2S . <i>Molecular Physics</i> , 2022, 120, .	0.8	2
7	Barrier-discharge source of cold hydrogen atoms in supersonic beams: Stark effect in the $1s \rightarrow 2s$ transition. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 155002.	0.6	3
8	Precision millimetre-wave spectroscopy and calculation of the Stark manifolds in high Rydberg states of para- H_2 . <i>Journal of Molecular Spectroscopy</i> , 2022, 387, 111648.	0.4	6
9	Multipole-moment effects in ion- molecule reactions at low temperatures: part III – the $\text{He} + \text{CH}_4$ and $\text{He} + \text{CD}_4$ reactions at low collision energies and the effect of the charge-octupole interaction. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16360-16373.	1.3	2
10	Multipole-moment effects in ion- molecule reactions at low temperatures: part I – ion-dipole enhancement of the rate coefficients of the $\text{He} + \text{NH}_3$ and $\text{He} + \text{ND}_3$ reactions at collisional energies ~ 10 K. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21606-21622.	1.3	14
11	Spectroscopic characterization of a thermodynamically stable doubly charged diatomic molecule: MgAr^{2+} . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10978-10987.	1.3	8
12	The $\text{H}_2^+ + \text{HD}$ reaction at low collision energies: $\text{H}_3^+/\text{H}_2\text{D}^+$ branching ratio and product-kinetic-energy distributions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2676-2685.	1.3	19
13	Line shapes and line positions in PFI-ZEKE photoelectron and MATI spectra of positively charged ions. <i>Molecular Physics</i> , 2021, 119, e1900613.	0.8	2
14	Charge-Transfer-Induced Predissociation in Rydberg States of Molecular Cations: MgAr^+ . <i>Journal of Physical Chemistry A</i> , 2021, 125, 6681-6696.	1.1	2
15	SI-traceable frequency dissemination at 1572.06 nm in a stabilized fiber network with ring topology. <i>Optics Express</i> , 2021, 29, 24592.	1.7	16
16	Deviation of the rate of the reaction from Langevin behaviour below 100 K, branching ratios for the and product channels, and product-kinetic-energy distributions. <i>Molecular Physics</i> , 2021, 119, .	0.8	11
17	State of Mg^+ . <i>Physical Review A</i> , 2021, 103, 042701.	2.9	16
18	Cold ion chemistry within a Rydberg-electron orbit: test of the spectator role of the Rydberg electron in the $\text{He}(n) + \text{CO} \rightarrow \text{C}(\text{n}\hat{\text{a}}^2) + \text{O} + \text{He}$ reaction. <i>New Journal of Physics</i> , 2021, 23, 095011.	1.2	8

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19	Characterization of the $3d^3$ Rydberg state of $MgAr^+$ using a quantum-control optical scheme. <i>Physical Review A</i> , 2021, 104, .	1.0	4
20	High-resolution spectroscopy of the transition of $MgAr^+$ by isolated-core multiphoton Rydberg dissociation. <i>Molecular Physics</i> , 2020, 118, e1703051.	0.8	8
21	Determination of the Interaction Potential and Rovibrational Structure of the Ground Electronic State of $MgAr^+$ Using PFI-ZEKE Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 379-385.	1.1	9
22	Manipulating beams of paramagnetic atoms and molecules using inhomogeneous magnetic fields. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 120-121, 118-148.	3.9	10
23	Complete characterization of the $3p$ Rydberg complex of a molecular ion: $MgAr^+$. I. Observation of the $Mg(3p^1f)Ar^+$ B^+ state and determination of its structure and dynamics. <i>Journal of Chemical Physics</i> , 2020, 153, 074310.	1.2	11
24	Complete characterization of the $3p$ Rydberg complex of a molecular ion: $MgAr^+$. II. Global analysis of the $A^+ 2^1$ and $B^+ 2^1$ ($3p^1f, i^1$) states. <i>Journal of Chemical Physics</i> , 2020, 153, 074311.	1.2	9
25	Precision Measurements in Few-Electron Molecules: The Ionization Energy of Metastable $He42$ and the First Rotational Interval of $He42^+$. <i>Physical Review Letters</i> , 2020, 124, 213001.	2.9	14
26	Ion-Molecule Reactions below 1Å : Strong Enhancement of the Reaction Rate of the Ion-Dipole Reaction $He^+ + N_2 \rightarrow He + N_2^+$. <i>Physical Review Letters</i> , 2020, 125, 263401.	2.9	14
27	Spectroscopy of Highly Excited States of the Hydrogen Atom. <i>Chimia</i> , 2020, 74, 285.	0.3	3
28	Rydberg "Stark deceleration and trapping of helium in magnetic fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 195003.	0.6	0
29	Precision measurement of the ionization energy and quantum defects of K^+ . <i>Physical Review A</i> , 2019, 100, .	1.0	21
30	Determination of the Interval between the Ground States of Para- and Ortho- H_2^+ . <i>Physical Review Letters</i> , 2019, 123, 163002.	2.9	31
31	PFI-ZEKE-photoelectron spectroscopy of N_2O using narrow-band VUV laser radiation generated by four-wave mixing in Ar using a KBBF crystal. <i>Journal of Chemical Physics</i> , 2019, 151, 144302.	1.2	7
32	A personal preface to the special issue of <i>Molecular Physics</i> in Honour of Professor Timothy P. Softley, FRS. <i>Molecular Physics</i> , 2019, 117, 2921-2923.	0.8	0
33	Autoionization rates of core-excited magnesium Rydberg atoms in electric fields using the core fluorescence as a reference. <i>Physical Review A</i> , 2019, 100, .	1.0	11
34	Magic Rydberg-Rydberg transitions in electric fields. <i>Physical Review A</i> , 2019, 100, .	1.0	6
35	Experimental and theoretical study of core-excited $3p$ series of Mg. <i>Physical Review A</i> , 2019, 100, .	1.0	10
36	Fluorescence-lifetime-limited trapping of Rydberg helium atoms on a chip. <i>Molecular Physics</i> , 2019, 117, 2980-2989.	0.8	14

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55	Measuring the dispersive frequency shift of a rectangular microwave cavity induced by an ensemble of Rydberg atoms. <i>Physical Review A</i> , 2017, 95, .	1.0	16
56	Radiative and collisional processes in translationally cold samples of hydrogen Rydberg atoms studied in an electrostatic trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 094006.	0.6	23
57	Observation of enhanced rate coefficients in the $H_2++H_2^+\rightarrow H_3++H$ reaction at low collision energies. <i>Journal of Chemical Physics</i> , 2016, 145, 244316.	1.2	53
58	Precision measurement of the rotational energy-level structure of the three-electron molecule He_2^+ . <i>Journal of Chemical Physics</i> , 2016, 145, 204301.	1.2	9
59	New Method to Study Ion-Molecule Reactions at Low Temperatures and Application to the Reaction. <i>ChemPhysChem</i> , 2016, 17, 3580-3580.	1.0	0
60	Exotic Chemistry with Ultracold Rydberg Atoms. <i>Chimia</i> , 2016, 70, 263.	0.3	3
61	Rydberg states of helium in electric and magnetic fields of arbitrary relative orientation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 104002.	0.6	6
62	Structure and dynamics of H_2^+ near the dissociation threshold: A combined experimental and computational investigation. <i>Journal of Molecular Spectroscopy</i> , 2016, 330, 147-157.	0.4	18
63	High-resolution photoelectron-spectroscopic investigation of the H_2O^+ cation in its electronic state. <i>Molecular Physics</i> , 2016, 114, 3319-3327.	0.8	1
64	Spin-orbit coupling and rovibrational structure in the iododiacetylene radical cation by PFI-ZEKE photoelectron spectroscopy. <i>Molecular Physics</i> , 2016, 114, 2848-2856.	0.8	0
65	Observation and Calculation of the Quasibound Rovibrational Levels of the Electronic Ground State of H_2^+ . <i>Physical Review Letters</i> , 2016, 116, 093001.	2.9	26
66	Precision measurement of the ionization energy of Cs I. <i>Physical Review A</i> , 2016, 93, .	1.0	42
67	New Method to Study Ion-Molecule Reactions at Low Temperatures and Application to the Reaction. <i>ChemPhysChem</i> , 2016, 17, 3596-3608.	1.0	51
68	Long-range Rydberg molecules, Rydberg macrodimers and Rydberg aggregates in an ultracold Cs gas. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2891-2918.	1.2	10
69	High-resolution spectroscopy of He_2^+ using Rydberg-series extrapolation and Zeeman-decelerated supersonic beams of metastable He_2 . <i>Journal of Molecular Spectroscopy</i> , 2016, 322, 9-17.	1.0	11
70	Pulsed excitation of Rydberg-atom-pair states in an ultracold Cs gas. <i>Physical Review A</i> , 2015, 92, .	1.0	11
71	Precision Spectroscopy in Cold Molecules: The Lowest Rotational Interval of He_2^+ and Metastable He_2 . <i>Physical Review Letters</i> , 2015, 115, 133202.	2.9	21
72	Imaging electric fields in the vicinity of cryogenic surfaces using Rydberg atoms. <i>Physical Review A</i> , 2015, 92, .	1.0	30

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73	Internal rotation, spin-orbit coupling, and low-frequency vibrations in the ground state of CH ₃ ⁺ and CD ₃ ⁺ . Molecular Physics, 2015, 113, 2115-2124.	0.8	5
74	Experimental Characterization of Singlet Scattering Channels in Long-Range Rydberg Molecules. Physical Review Letters, 2015, 114, 133201.	2.9	78
75	The fundamental rotational interval of para-H ₂ ⁺ by MQDT-assisted Rydberg spectroscopy of H ₂ . Journal of Chemical Physics, 2015, 142, 064310.	1.2	26
76	Threshold ionization spectroscopy of H ₂ O, HDO and D ₂ O and low-lying vibrational levels of HDO and D ₂ O. Molecular Physics, 2015, 113, 3918-3924.	0.8	10
77	Slow and velocity-tunable beams of metastable He ²⁺ by multistage Zeeman deceleration. Physical Review A, 2014, 89, .	1.0	34
78	Determination of the binding energies of the <i>n</i> Rydberg states of H ₂ , HD, and D ₂ from high-resolution spectroscopic data by multichannel quantum-defect theory. Journal of Chemical Physics, 2014, 140, 104303.	1.2	24
79	Surface-electrode decelerator and deflector for Rydberg atoms and molecules. Physical Review A, 2014, 90, .	1.0	33
80	Observation of <i>g</i> / <i>u</i> -symmetry mixing in the high- <i>n</i> Rydberg states of HD. Journal of Chemical Physics, 2014, 140, 124313.	1.2	7
81	AEGIS experiment: Towards antihydrogen beam production for antimatter gravity measurements. European Physical Journal D, 2014, 68, 1.	0.6	4
82	Observation of Dipole-Quadrupole Interaction in an Ultracold Gas of Rydberg Atoms. Physical Review Letters, 2014, 113, 193001.	2.9	37
83	Manipulating Rydberg atoms close to surfaces at cryogenic temperatures. Physical Review A, 2014, 90, .	1.0	32
84	Measuring the gravitational free-fall of antihydrogen. Hyperfine Interactions, 2014, 228, 151-157.	0.2	4
85	High-resolution spectroscopy and quantum-defect model for the <i>gerade</i> triplet <i>n</i> and <i>ungerade</i> Rydberg states of He ₂ . Journal of Chemical Physics, 2014, 140, 064304.	1.2	11
86	The X ² g, A ² u, B ² u, and $\Sigma_{a}^{+4}\Sigma_{u}^{-4}$ electronic states of $[mCl]_{2}^{+}$ Cl ₂ ⁺ studied by high-resolution photoelectron spectroscopy. Journal of Chemical Physics, 2013, 139, 034302.	1.2	11
87	Precision measurement of the ionisation energy of the 3 <i>d</i> <i>GK</i> state of H ₂ ⁺ . Molecular Physics, 2013, 111, 2100-2107.	0.8	15
88	High-resolution spectroscopic study of the C 0 ⁺ and D 1 Rydberg states of KrXe and of the X 1/2 and A1 3/2 states of KrXe ⁺ . Journal of Molecular Spectroscopy, 2013, 284-285, 37-53.	0.4	1
89	High-resolution spectroscopy of Rydberg states in an ultracold cesium gas. Physical Review A, 2013, 87, .	1.0	40
90	High-resolution laser spectroscopy between 0.9 and 14.3 THz in a supersonic beam: Rydberg-Rydberg transitions of atomic Xe at intermediate <i>n</i> values. Journal of Chemical Physics, 2013, 138, 244202.	1.2	2

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91	Spin-Orbit and Vibronic Coupling in the Ionic Ground State of Iodoacetylene from a Rotationally Resolved Photoelectron Spectrum. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9353-9362.	1.1	10
92	Spectrum of the Autoionizing Triplet Gerade Rydberg States of H_2 and its Analysis Using Multichannel Quantum-Defect Theory. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9462-9476.	1.1	11
93	Motional, isotope and quadratic Stark effects in Rydberg-Stark deceleration and electric trapping of H and D. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 045303.	0.6	15
94	Deceleration and trapping of a fast supersonic beam of metastable helium atoms with a 44-electrode chip decelerator. <i>Physical Review A</i> , 2013, 88, .	1.0	18
95	Velocity-tunable slow beams of cold O_2 in a single spin-rovibronic state with full angular-momentum orientation by multistage Zeeman deceleration. <i>Molecular Physics</i> , 2012, 110, 1807-1814.	0.8	37
96	Surface-Electrode Rydberg-Stark Decelerator. <i>Physical Review Letters</i> , 2012, 108, 063008.	2.9	49
97	Photoelectron spectroscopic study of the Jahn-Teller effect in the presence of a tunable spin-orbit interaction. III. Two-state excitonic model accounting for observed trends in the $X^1\Sigma^+$ ground state of CH_3X ($X=F, Cl, Br, I$) and CH_3Y ($Y=O, S$). <i>Journal of Chemical Physics</i> , 2012, 137, 084313.	1.2	13
98	Structure and dynamics of the electronically excited C^1 and D^0 states of $ArXe$ from high-resolution vacuum ultraviolet spectra. <i>Journal of Chemical Physics</i> , 2012, 136, 074304.	1.2	7
99	Spin-Orbit Coupling and Potential Energy Functions of Ar_2^+ and Kr_2^+ by High-Resolution Photoelectron Spectroscopy and <i>ab Initio</i> Quantum Chemistry. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3671-3685.	2.3	8
100	Rotationally resolved PFI-ZEKE photoelectron spectroscopic study of the low-lying electronic states of $ArXe^+$. <i>Journal of Chemical Physics</i> , 2012, 137, 094308.	1.2	6
101	Photoionization dynamics of excited Ne, Ar, Kr and Xe atoms near threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 092001.	0.6	45
102	Driving Rydberg-Rydberg Transitions from a Coplanar Microwave Waveguide. <i>Physical Review Letters</i> , 2012, 108, 063004.	2.9	90
103	The AEGIS experiment at CERN. <i>Hyperfine Interactions</i> , 2012, 209, 43-49.	0.2	3
104	Towards measuring the ionisation and dissociation energies of molecular hydrogen with sub-MHz accuracy. <i>Faraday Discussions</i> , 2011, 150, 51.	1.6	70
105	Trapping cold molecular hydrogen. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19000.	1.3	35
106	Deceleration of supersonic beams using inhomogeneous electric and magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18705.	1.3	63
107	Collisional and Radiative Processes in Adiabatic Deceleration, Deflection, and Off-Axis Trapping of a Rydberg Atom Beam. <i>Physical Review Letters</i> , 2011, 106, 073003.	2.9	43
108	Multistage Zeeman deceleration of metastable neon. <i>Journal of Chemical Physics</i> , 2011, 135, 214202.	1.2	21

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109	Photoelectron spectroscopic study of the E \tilde{S} –e Jahn–Teller effect in the presence of a tunable spin–orbit interaction. II. Rovibronic analysis of the $E_{g,2}$ ground state of CH_3Cl^+ . Molecular Physics, 2011, 109, 2251-2266.	0.8	9
110	Photoelectron spectroscopic study of the E \tilde{S} –e Jahn–Teller effect in the presence of a tunable spin–orbit interaction. I. Photoionization dynamics of methyl iodide and rotational fine structure of CH_3I^+ and CD_3I^+ . Journal of Chemical Physics, 2011, 134, 054308.	1.2	18
111	Vibrational spectra of chloroform, freon-11 and selected isotopomers in the terahertz region. Journal of Molecular Spectroscopy, 2010, 262, 61-63.	0.4	3
112	Phase stability in a multistage Zeeman decelerator. Physical Review A, 2010, 82, .	1.0	29
113	Dissociation dynamics of ion-pair states of Cl^- . Millimeter-wave spectroscopy and multichannel quantum-defect theory analysis of high-Rydberg principal states of xenon: The hyperfine structure of $110, 82, .$	1.0	23
114	Millimeter-wave spectroscopy and multichannel quantum-defect theory analysis of high-Rydberg principal states of xenon: The hyperfine structure of $110, 82, .$	1.0	21
115	Trapping deuterium atoms. Physical Review A, 2010, 81, .	1.0	23
116	Structure of the low-lying electronic states of from rotationally resolved photoelectron spectra. Molecular Physics, 2010, 108, 915-926.	0.8	10
117	PFI-ZEKE photoelectron and high resolution photoionization spectra of ND_3 with MQDT simulations. Molecular Physics, 2010, 108, 1069-1082.	0.8	3
118	Determination of the ionization and dissociation energies of the deuterium molecule (D_2). Journal of Chemical Physics, 2010, 132, 154301.	1.2	93
119	Communication: The ionization and dissociation energies of HD. Journal of Chemical Physics, 2010, 133, 111102.	1.2	70
120	Rydberg-State-Enabled Deceleration and Trapping of Cold Molecules. Physical Review Letters, 2009, 103, 123001.	2.9	85
121	Rovibronic analysis of the Jahn–Teller effect in $CH_2D_2^+$ at low energies. Journal of Chemical Physics, 2009, 131, 024309.	1.2	10
122	A New Perspective on the Binding Power of an Electron. ChemPhysChem, 2009, 10, 2931-2934.	1.0	4
123	Jahn–Teller Effects in Molecular Cations Studied by Photoelectron Spectroscopy and Group Theory. Angewandte Chemie - International Edition, 2009, 48, 6404-6424.	7.2	57
124	Generation of widely tunable Fourier-transform-limited terahertz pulses using narrowband near-infrared laser radiation. Journal of Molecular Spectroscopy, 2009, 256, 111-118.	0.4	7
125	Nuclear-spin effects in the photoionization of krypton. Physical Review A, 2009, 79, .	1.0	17
126	Determination of the ionization and dissociation energies of the hydrogen molecule. Journal of Chemical Physics, 2009, 130, 174306.	1.2	168

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127	Structure and Dynamics of High Rydberg States Studied by High-Resolution Spectroscopy and Multichannel Quantum Defect Theory. , 2009, , 35-61.		2
128	Spectroscopic characterization of the potential energy functions of Ne ₂ Rydberg states in the vicinity of the Ne(1S ₀)+Ne(4p ²) dissociation limits. Journal of Molecular Spectroscopy, 2008, 247, 85-99.	0.4	6
129	Magnetic Trapping of Hydrogen after Multistage Zeeman Deceleration. Physical Review Letters, 2008, 101, 143001.	2.9	76
130	Spectroscopic characterization and potential energy functions of the six low-lying electronic states of ArKr ⁺ . Molecular Physics, 2008, 106, 1835-1846.	0.8	5
131	The low-lying electronic states of KrXe ⁺ and their potential energy functions. Molecular Physics, 2008, 106, 1215-1226.	0.8	9
132	On the R-dependence of the spin-orbit coupling constant: Potential energy functions of Xe ₂ ⁺ by high-resolution photoelectron spectroscopy and <i>ab initio</i> quantum chemistry. Journal of Chemical Physics, 2008, 128, 234306.	1.2	26
133	The low-lying electronic states of ArXe ⁺ and their potential energy functions. Journal of Chemical Physics, 2008, 128, 014306.	1.2	21
134	Pulsed-field-ionization zero-kinetic-energy photoelectron spectroscopy of metastable He ₂ : Ionization potential and rovibrational structure of He ₂ ⁺ . Journal of Chemical Physics, 2008, 128, 164310.	1.2	17
135	Generation of tunable Fourier-transform-limited terahertz pulses in 4-N,N-dimethylamino-4 ² -methyl stilbazolium tosylate crystals. Applied Physics Letters, 2008, 93, 131105.	1.5	12
136	Hyperfine structure of the ground state of para-D ₂ by high-resolution Rydberg-state spectroscopy and multichannel quantum defect theory. Physical Review A, 2008, 77, .	1.0	17
137	Demonstration of Three-Dimensional Electrostatic Trapping of State-Selected Rydberg Atoms. Physical Review Letters, 2008, 100, 043001.	2.9	98
138	Slow beams of atomic hydrogen by multistage Zeeman deceleration. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 081005.	0.6	30
139	Jahn-Teller effect in CH ₃ D ⁺ and CD ₃ H ⁺ : Conformational isomerism, tunneling-rotation structure, and the location of conical intersections. Journal of Chemical Physics, 2007, 126, 154304.	1.2	18
140	Multistage Zeeman deceleration of hydrogen atoms. Physical Review A, 2007, 75, .	1.0	192
141	Zeeman deceleration of H and D. Physical Review A, 2007, 76, .	1.0	79
142	Jahn-Teller effect in tetrahedral symmetry: Large-amplitude tunneling motion and rovibronic structure of CH ₄ ⁺ and CD ₄ ⁺ . Journal of Chemical Physics, 2007, 126, 144305.	1.2	43
143	Structure and dynamics of the high gerade Rydberg states of D ₂ in the vicinity of the adiabatic ionization threshold. Molecular Physics, 2007, 105, 871-883.	0.8	7
144	Rovibronic photoionization dynamics of ammonia isotopomers. Molecular Physics, 2007, 105, 1711-1722.	0.8	3

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145	Stark deceleration and trapping of hydrogen Rydberg atoms. <i>Physical Review A</i> , 2007, 76, .	1.0	63
146	From Rydberg State Dynamics to Ion-Molecule Reactions using Zeke Spectroscopy. <i>Advances in Chemical Physics</i> , 2007, , 667-700.	0.3	6
147	Thermochemical properties of small open-shell systems: experimental and high-levelab initioresults for NH ₂ and. <i>Molecular Physics</i> , 2006, 104, 1457-1461.	0.8	15
148	On the rotational structure of a prominent band in the vacuum-ultraviolet spectrum of molecular nitrogen. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2006, 151, 31-33.	0.8	9
149	A 240â€“380 GHz millimetre wave source for very high resolution spectroscopy of high Rydberg states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 831-845.	0.6	15
150	Normal-Incidence Electrostatic Rydberg Atom Mirror. <i>Physical Review Letters</i> , 2006, 97, 033002.	2.9	41
151	Millimeter-wave spectroscopy and multichannel quantum-defect-theory analysis of high Rydberg states of krypton: The hyperfine structure of Kr+83. <i>Physical Review A</i> , 2006, 74, .	1.0	18
152	Jahn-Teller Effect in the Methane Cation: Rovibronic Structure and the Geometric Phase. <i>Physical Review Letters</i> , 2006, 97, 173003.	2.9	35
153	Rovibronic photoionization dynamics of asymmetric-top molecules. <i>International Journal of Mass Spectrometry</i> , 2005, 245, 14-25.	0.7	54
154	High-resolution spectroscopy of xenon using a tunable Fourier-transform-limited all-solid-state vacuum-ultraviolet laser system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 4145-4154.	0.6	26
155	Role of nuclear spin in photoionization: Hyperfine-resolved photoionization of Xe and multichannel quantum defect theory analysis. <i>Physical Review A</i> , 2005, 71, .	1.0	37
156	Generation of programmable near-Fourier-transform-limited pulses of narrow-band laser radiation from the near infrared to the vacuum ultraviolet. <i>Review of Scientific Instruments</i> , 2005, 76, 103103.	0.6	44
157	Potential energy curves of diatomic molecular ions from high-resolution photoelectron spectroscopy. III. The low-lying <i>ungerade</i> states of Kr₂⁺. <i>Molecular Physics</i> , 2005, 103, 1285-1300.	0.8	15
158	High-resolution millimeter wave spectroscopy and multichannel quantum defect theory of the hyperfine structure in high Rydberg states of molecular hydrogen H ₂ . <i>Journal of Chemical Physics</i> , 2004, 121, 11810-11838.	1.2	84
159	Nonhydrogenic Effects in the Deceleration of Rydberg Atoms in Inhomogeneous Electric Fields. <i>Physical Review Letters</i> , 2004, 92, 033005.	2.9	87
160	Intense narrow-bandwidth extreme ultraviolet laser system tunable up to 20 eV. <i>Review of Scientific Instruments</i> , 2004, 75, 613-622.	0.6	65
161	Potential energy curves of diatomic molecular ions from high-resolution photoelectron spectra. II. The first six electronic states of Xe[₂] ⁺ . <i>Journal of Chemical Physics</i> , 2004, 121, 8279.	1.2	26
162	Deflection and deceleration of hydrogen Rydberg molecules in inhomogeneous electric fields. <i>Journal of Chemical Physics</i> , 2004, 121, 1419-1431.	1.2	77

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181	Selective field ionization of high Rydberg states: Application to zero-kinetic-energy photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2001, 115, 5461-5469.	1.2	103
182	A broadly tunable extreme ultraviolet laser source with a 0.008 cm ^[sup âˆˆ1] bandwidth. <i>Review of Scientific Instruments</i> , 2000, 71, 4023.	0.6	85
183	Measurement of the hyperfine structure in low-l, high-nRydberg states of ortho H2 by millimeter wave spectroscopy. <i>Journal of Chemical Physics</i> , 2000, 113, 7939-7944.	1.2	22
184	PFI-ZEKE photoelectron spectra of the methane cation and the dynamic Jahnâ€™Teller effect. <i>Faraday Discussions</i> , 2000, 115, 205-228.	1.6	46
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