Michael C Heaven

List of Publications by Year
in descending order

323 papers	6,259 citations	61945 43 h-index	128225 60 g-index
333 all docs	333 docs citations	333 times ranked	2180 citing authors

#	Article	IF	Citations
1	Beryllium Dimerâ€"Caught in the Act of Bonding. Science, 2009, 324, 1548-1551.	6.0	203
2	Kinetics of polyatomic free radicals produced by laser photolysis. 3. Reaction of vinyl radicals with molecular oxygen. Journal of the American Chemical Society, 1984, 106, 4356-4361.	6.6	120
3	Spectroscopy and Dynamics of Open-Shell Van Der Waals Molecules. Annual Review of Physical Chemistry, 1992, 43, 283-310.	4.8	108
4	The Electronic Spectrum of the UO2Molecule. Journal of the American Chemical Society, 2005, 127, 86-91.	6.6	104
5	Gain and lasing of optically pumped metastable rare gas atoms. Optics Letters, 2012, 37, 2157.	1.7	103
6	Observation of ArOH and ArOD by laser induced fluorescence. Journal of Chemical Physics, 1988, 89, 7030-7031.	1.2	88
7	Simultaneous Measurement of Recoil Velocity and Alignment ofS(D21)Atoms in Photodissociation of OCS. Physical Review Letters, 1996, 77, 830-833.	2.9	77
8	Kinetics of polyatomic free radicals produced by laser photolysis. 4. Study of the equilibrium isopropyl + oxygen .tautm. isopropylperoxy between 592 and 692 K. Journal of the American Chemical Society, 1985, 107, 1838-1845.	6.6	76
9	Optically pumped microplasma rare gas laser. Optics Express, 2015, 23, 4804.	1.7	76
10	Laser induced fluorescence study of the HeBr2 van der Waals complex. Journal of Chemical Physics, 1984, 81, 5514-5520.	1.2	72
11	Laser Spectroscopy of UO: Characterization and Assignment of States in the 0- to 3-eV Range, with a Comparison to the Electronic Structure of ThO. Journal of Molecular Spectroscopy, 1994, 164, 27-65.	0.4	71
12	A potential surface for argon-hydroxyl(2.SIGMA.) and argon-hydroxyl-d(2.SIGMA.): fitting and assigning experimental data with rigorous theory. The Journal of Physical Chemistry, 1990, 94, 2226-2229.	2.9	70
13	Spectroscopy of the ground and low-lying excited states of ThO+. Journal of Chemical Physics, 2006, 124, 064312.	1.2	70
14	Rotational, fine, and hyperfine structure in the highâ€resolution electronic spectrum of ArOH and ArOD. Journal of Chemical Physics, 1991, 95, 7086-7098.	1.2	69
15	Laser induced fluorescence study of the BÌƒâ€‰2Aâ€³â€‰â†'â€‰XÌƒâ€‰2Aâ€³ transition of the vinoxy radical in a supersonic free jet expansion. Journal of Chemical Physics, 1984, 81, 2339-2346.	1.2	68
16	Spectroscopy and dynamics of hydride radical van der Waals complexes. The Journal of Physical Chemistry, 1993, 97, 8567-8577.	2.9	68
17	The unique bonding characteristics of beryllium and the Group IIA metals. Chemical Physics Letters, 2011, 506, 1-14.	1.2	68
18	Electronic spectroscopy and ionization potential of UO2 in the gas phase. Journal of Chemical Physics, 2004, 120, 5155-5163.	1.2	65

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19	Laser-induced fluorescence spectra of free-jet cooled organic free radicals. Vinoxy, cyclopentadienyl, and benzyl. Chemical Physics Letters, 1983, 95, 347-351.	1.2	63
20	Demonstration of a diode-pumped metastable Ar laser. Optics Letters, 2013, 38, 5458.	1.7	62
21	Electronic spectroscopy of the ArOH and ArOD complexes. Journal of Chemical Physics, 1990, 92, 909-916.	1.2	60
22	Rotationally resolved electronic spectrum of jet-cooled cyclopentadienyl radical. The Journal of Physical Chemistry, 1988, 92, 4263-4266.	2.9	58
23	Laser vaporization of tin: Spectra and ground state molecular parameters of Sn2. Journal of Chemical Physics, 1983, 78, 3593-3598.	1.2	57
24	The Electronic Structure of the Lanthanide Monohalides: A Ligand Field Approach. Journal of Molecular Spectroscopy, 1996, 179, 310-319.	0.4	57
25	Probing actinide electronic structure using fluorescence and multi-photon ionization spectroscopy. Physical Chemistry Chemical Physics, 2006, 8, 4497.	1.3	57
26	Bonding in Beryllium Clusters. Annual Review of Physical Chemistry, 2011, 62, 375-393.	4.8	56
27	Two-photon absorption, laser-induced fluorescence detection of Cl atoms. Chemical Physics Letters, 1982, 86, 458-462.	1.2	54
28	Spectroscopy of metastable species in a freeâ€jet expansion: The Dâ€™â†Aâ€™ transition of I2. Journal of Chemical Physics, 1992, 96, 4877-4883.	1.2	54
29	Dissociation dynamics of I2(B)â€“Ar: Rotational population distributions of I2(B,v) fragments from the T-shaped and linear complexes. Journal of Chemical Physics, 2001, 114, 7027-7035.	1.2	54
30	Probing the electronic structure of UO+ with high-resolution photoelectron spectroscopy. Journal of Chemical Physics, 2006, 125, 133202.	1.2	54
31	Density functional calculations of beryllium clusters Ben, n=2â€“8. Chemical Physics, 2000, 262, 15-23.	0.9	53
32	Kinetics and mechanism of the reaction of vinyl radicals with molecular oxygen. Chemical Physics Letters, 1984, 104, 469-474.	1.2	52
33	Fluorescence decay dynamics of the halogens and interhalogens. Chemical Society Reviews, 1986, 15, 405.	18.7	50
34	Accurate Ionization Potentials for UO and UO2:Â A Rigorous Test of Relativistic Quantum Chemistry Calculations. Journal of the American Chemical Society, 2003, 125, 7176-7177.	6.6	50
35	Thermochemical Properties (DÂ°0and IP) of the Lanthanide Monohalides. Journal of Molecular Spectroscopy, 1999, 193, 285-292.	0.4	49
36	Laser Spectroscopy of TiO: Accurate Term Energies for the Singlet States and Ligand Field Assignment of States in the Range 0 to 4 eV. Journal of Molecular Spectroscopy, 1995, 173, 499-509.	0.4	48

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37	Spectroscopy and relaxation dynamics of I2Arn clusters. Geminate recombination and cluster fragmentation. Journal of Chemical Physics, 1992, 97, 6057-6063.	1.2	47
38	Spectroscopy and dynamics of I2(B)â€“Ne. Journal of Chemical Physics, 2001, 115, 784-791.	1.2	47
39	Demonstration of a CW diode-pumped Ar metastable laser operating at 4â€‰â€‰W. Optics Letters, 2017, 42, 4627.	1.7	46
40	Kinetics of excited states of Br2using laser excitation. Part 1 .â€”System description and rotationally-dependent lifetimes in Br2(B). Journal of the Chemical Society, Faraday Transactions 2, 1978, 74, 1992-2013.	1.1	45
41	Laser-induced fluorescence of the BO and BO2 free radicals. Chemical Physics, 1980, 51, 299-309.	0.9	45
42	Spectroscopy of the AlAr van der Waals complex: Rotationally resolved Bâ€‰2Î£+â†Xâ€‰2Î1/2 electronic transitions. Journal of Chemical Physics, 1990, 92, 2733-2739.	1.2	45
43	Electronic Spectroscopy of UO. Journal of Molecular Spectroscopy, 1997, 185, 1-7.	0.4	45
44	Spectroscopy and Structure of the Simplest Actinide Bonds. Journal of Physical Chemistry A, 2014, 118, 10867-10881.	1.1	45
45	Direct-potential-fit analyses yield improved empirical potentials for the ground $X,^1Sigma _g^+$XÎ£g+1 state of Be2. Journal of Chemical Physics, 2014, 140, 064315.	1.2	44
46	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O â†' SmO+ + eâ^'. Journal of Chemical Physics, 2015, 142, 134307.	1.2	44
47	Production and characterization of temperature-controlled free radicals in a free jet expansion. Chemical Physics Letters, 1981, 84, 1-5.	1.2	43
48	Static diode pumped alkali lasers: Model calculations of the effects of heating, ionization, high electronic excitation and chemical reactions. Optics Communications, 2013, 292, 123-125.	1.0	42
49	Theoretical treatment of the spontaneous predissociation of Br2, Bâ€‰3Î(0u+). Journal of Chemical Physics, 1982, 76, 5341-5349.	1.2	41
50	Spectroscopy and relaxation dynamics of metastable electronically excited states of iodine in rare gas matrices. Chemical Physics, 1991, 151, 219-232.	0.9	40
51	Electronic Spectroscopy of UO2Isolated in a Solid Ar Matrix. Journal of the American Chemical Society, 2004, 126, 1812-1815.	6.6	40
52	Improved spectroscopic constants for I2 D 1Î£u+. Chemical Physics Letters, 1995, 239, 1-5.	1.2	39
53	Kinetics of optically pumped Ar metastables. Optics Letters, 2014, 39, 6541.	1.7	39
54	Spectroscopy and dynamics of hydride radical van der Waals complexes. International Reviews in Physical Chemistry, 2005, 24, 375-420.	0.9	38

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55	The ionization energy of Be2, and spectroscopic characterization of the (1)3Î£+u, (2)3Îg, and (3)3Îg states. Physical Chemistry Chemical Physics, 2008, 10, 4006.	1.3	38
56	Vibrational calculations and potential determination for ArOH* (v=0, 1) and ArOD* (v=0, 1). Chemical Physics Letters, 1992, 189, 487-494.	1.2	37
57	Ab initio theoretical studies on photodissociation of HNCO upon S1(1Aâ€³)â†S0(1Aâ€²) excitation: The role of internal conversion and intersystem crossing. Journal of Chemical Physics, 1999, 111, 5004-5016.	1.2	36
58	Spectroscopic investigations of ThF and ThF+. Journal of Chemical Physics, 2012, 136, 104305.	1.2	36
59	Laser spectra of jetâ€cooled ions and ion clusters. Journal of Chemical Physics, 1982, 76, 3831-3832.	1.2	35
60	Ionization energy measurements and electronic spectra for ThO. Journal of Chemical Physics, 2005, 122, 204311.	1.2	35
61	Electronic spectroscopy and energy transfer pathways of matrix isolated iodine. Journal of Chemical Physics, 1989, 91, 674-682.	1.2	34
62	Laser Spectroscopy of CeO: Characterization and Assignment of States in the 0-3 eV Range. Journal of Molecular Spectroscopy, 1993, 158, 40-61.	0.4	34
63	Rotationally resolved electronic spectra for uranium monoxide. Chemical Physics Letters, 1985, 119, 229-233.	1.2	33
64	Observation and analysis of the Î² â†•A transition of I2 in a free-jet expansion. Journal of Molecular Spectroscopy, 1991, 149, 399-411.	0.4	33
65	Laser spectroscopy of LaF: ligand field-theory assignment of the triplet-state manifold and analysis of hyperfine structure. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 219.	0.9	32
66	Spectroscopy of the UO2+ cation and the delayed ionization of UO2. Journal of Chemical Physics, 2008, 128, 084304.	1.2	31
67	O2(a1Î”) quenching in the O/O2/O3 system. Chemical Physics Letters, 2009, 482, 56-61.	1.2	31
68	The electronic spectrum of the Arâ€“vinoxy van der Waals complex. Journal of Chemical Physics, 1988, 89, 2768-2774.	1.2	30
69	Chemical formation and spectroscopy of S2 in a free jet expansion. Journal of Chemical Physics, 1984, 80, 51-56.	1.2	29
70	Electronic spectroscopy and vibrational predissociation dynamics of OHâ€“Kr and ODâ€“Kr. Journal of Chemical Physics, 1992, 97, 1655-1663.	1.2	29
71	Rotationally resolved electronic spectra for the neon hydroxide (NeOH and NeOD) van der Waals complexes. The Journal of Physical Chemistry, 1990, 94, 1720-1722.	2.9	28
72	The permanent electric dipole moments and magnetic g factors of uranium monoxide. Journal of Chemical Physics, 2006, 125, 204314.	1.2	28

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73	Spectroscopic characterization of Be2+Xâ€‰Î£2u+ and the ionization energy of Be2. Journal of Chemical Physics, 2010, 133, 074309.	1.2	28
74	Kinetics of excited states of Br2using laser excitation. Part 2.â€”Radiative lifetime and collisional deactivation of the B3Î(0+u) state. Journal of the Chemical Society, Faraday Transactions 2, 1980, 76, 405-419.	1.1	27
75	Observation and analysis of the CNâ€“Ne Bâ€“X transition. Journal of Chemical Physics, 1991, 94, 5765-5768.	1.2	27
76	Spectroscopy and dynamics of the H2â€“CN van der Waals complex. Journal of Chemical Physics, 1998, 109, 5171-5174.	1.2	27
77	Recent advances in the development of dischargeâ€pumped oxygenâ€iodine lasers. Laser and Photonics Reviews, 2010, 4, 671-683.	4.4	27
78	Laser-induced fluorescence spectroscopy of ionic clusters between organic cations and inert gases. Chemical Physics Letters, 1984, 104, 526-532.	1.2	26
79	Investigation of the state-to-state rotational relaxation rate constants for carbon monoxide (CO) using infrared double resonance. Journal of Chemical Physics, 2002, 116, 9281-9292.	1.2	26
80	On the dissociation of I2 by O2(aâ€‰1Î”): Pathways involving the excited species I2(Aâ€²â€‰Î32u,Aâ€‰Î31u), I2(Xâ€‰1âˆ‘Ï...), and O2(aâ€‰1Î”,Ï...). Journal of Chemical Physics, 2009, 130, 104306.	1.2	26
81	Production of Ar and Xe metastables in rare gas mixtures in a dielectric barrier discharge. Journal Physics D: Applied Physics, 2017, 50, 485203.	1.3	26
82	The free jet cooled, laser induced fluorescence spectrum of symâ€triazine. Journal of Chemical Physics, 1981, 75, 5271-5279.	1.2	25
83	Laser spectroscopy of lead molecules produced by laser vaporization. The Journal of Physical Chemistry, 1983, 87, 2072-2075.	2.9	25
84	Electronic spectroscopy and relaxation dynamics of OHâ€“Ne and ODâ€“Ne. Journal of Chemical Physics, 1992, 96, 5020-5032.	1.2	25
85	Role of O2(b) and I2 (A',A) in Chemical Oxygen-Iodine Laser Dissociation Process. AIAA Journal, 2006, 44, 1593-1600.	1.5	25
86	Spectroscopic and Theoretical Investigations of UF and UF⁺. Journal of Physical Chemistry A, 2013, 117, 9684-9694.	1.1	25
87	Laser-induced flourescence spectra of YAG-laser vaporized Se2. Chemical Physics Letters, 1982, 91, 251-257.	1.2	24
88	Potential surface and dissociation energies from high-resolution electronic spectroscopy of NeÂ·OH. Chemical Physics Letters, 1993, 207, 62-68.	1.2	24
89	Fluorescence depletion spectroscopy of the CH/Dâ€“Ne Bâ€‰2Î£â^'â€“Xâ€‰2Î transition. Journal of Chemical Physics, 1995, 103, 7218-7227.	1.2	24
90	Ion dissociation dynamics of the chlorine azide cation (ClN3+) investigated by velocity map imaging. Journal of Chemical Physics, 2003, 118, 10485-10493.	1.2	24

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91	Rotation-Electronic Deperturbation Analysis of the 4f 6s Configurational States of CeO. Journal of Molecular Spectroscopy, 1995, 170, 166-171.	0.4	23
92	Spectroscopy and nonadiabatic predissociation of CNâ€“Ne. Journal of Chemical Physics, 1997, 107, 7163-7178.	1.2	23
93	Photodissociation dynamics of ClN3 at 203 nm: the NCl (/) product branching ratio. Chemical Physics Letters, 2003, 368, 568-573.	1.2	23
94	Quantum-resolved dynamics of excited states. Part 5.â€”The long-lived A3Î(1u) state of Br2. Journal of the Chemical Society, Faraday Transactions 2, 1980, 76, 177-196.	1.1	22
95	Laser-induced fluorescence of the P radical. Chemical Physics, 1981, 58, 145-150.	0.9	22
96	Fluorescence decay and non-radiative relaxation dynamics of the A 2Î£+ states of OH-Ar and OD-Ar. Chemical Physics Letters, 1990, 167, 597-601.	1.2	22
97	Inelastic collision dynamics of vibrationally excited I2(X). Journal of Chemical Physics, 1997, 106, 127-141.	1.2	22
98	The one-atom cage effect in I2(B)â€“Ar: Evidence that caging is inefficient for the T-shaped isomer. Journal of Chemical Physics, 1999, 111, 2478-2483.	1.2	22
99	Communication: The permanent electric dipole moment of thorium monoxide, ThO. Journal of Chemical Physics, 2011, 134, 031102.	1.2	22
100	Laser Spectroscopy of GdO: Ligand Field Assignments of 4f7(8S)6p â†•4f7(8S)6s Transitions. Journal of Molecular Spectroscopy, 1994, 165, 323-333.	0.4	21
101	Potential energy surface and vibrational eigenstates of the H2â€“CN(Xâ€Š2Î£+) van der Waals complex. Journal of Chemical Physics, 1999, 110, 10380-10392.	1.2	21
102	Autodetachment spectroscopy of the aluminum oxide anion dipole bound state. Journal of Chemical Physics, 2015, 143, 114311.	1.2	20
103	Demonstration of a quasi-CW diode-pumped metastable xenon laser. Optics Express, 2019, 27, 36011.	1.7	20
104	Laser-excitation studies of Br2. Collisional energy transfer involving resolved quantum states of excited Br2B3Î(0u+). Journal of the Chemical Society, Faraday Transactions 2, 1980, 76, 961-978.	1.1	19
105	Laser-induced fluorescence of IBr: the B3Î(0+) excited state. Journal of the Chemical Society, Faraday Transactions 2, 1980, 76, 49-66.	1.1	19
106	Laser excitation spectra for matrix isolated IF: Observation of new lowâ€lying electronic states. Journal of Chemical Physics, 1987, 87, 3304-3312.	1.2	19
107	Laser Spectroscopy of ZrO: Accurate Term Energies for the Triplet States. Journal of Molecular Spectroscopy, 1995, 174, 93-99.	0.4	19
108	Laser Absorption Spectroscopy of LaF: Analysis of theB1Îâ€“X1Î£+Transition. Journal of Molecular Spectroscopy, 1997, 182, 50-56.	0.4	19

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109	Chemical oxygen-iodine laser (COIL) kinetics and mechanisms. , 2001, , .		19
110	Transversely optically pumped Ar:He laser with a pulsed-periodic discharge. Optics Express, 2019, 27, 38759.	1.7	19
111	Energy transfer rate constants for highly excited rovibrational levels of I2(X). Journal of Chemical Physics, 1993, 99, 5654-5660.	1.2	18
112	Laser Spectroscopy of YF: Linkage of the Singlet and Triplet State Manifolds. Journal of Molecular Spectroscopy, 1995, 169, 253-267.	0.4	18
113	Experimental detection and theoretical characterization of the H2â€“NH(X) van der Waals complex. Journal of Chemical Physics, 2005, 122, 144318.	1.2	18
114	Kinetics of O2(a1Î”g) and I(2P1/2) in the Photochemistry of N2O/I2Mixturesâ€. Journal of Physical Chemistry A, 2007, 111, 6592-6599.	1.1	18
115	Kinetics of optically pumped Kr metastables. Optics Letters, 2015, 40, 1310.	1.7	18
116	Time-dependent simulations of a CW pumped, pulsed DC discharge Ar metastable laser system. Optics Express, 2019, 27, 22289.	1.7	18
117	Vibronic relaxation dynamics of CN in Ar matrices and clusters. Chemical Physics, 1994, 189, 235-243.	0.9	17
118	Spectroscopy of metastable species in a free-jet expansion: the Î²â€,â†â€,A transition in IBr. Canadian Journal of Physics, 1994, 72, 1294-1306.	0.4	17
119	Laser Spectroscopy of HfO: Linkage of the Singlet and Triplet State Manifolds. Journal of Molecular Spectroscopy, 1995, 173, 37-43.	0.4	17
120	Spectroscopy, Structure, and Ionization Energy of BeOBe. Journal of Physical Chemistry A, 2009, 113, 13300-13309.	1.1	17
121	Communication: Spectroscopic measurements for HfF+ of relevance to the investigation of fundamental constants. Journal of Chemical Physics, 2011, 134, 201102.	1.2	17
122	Kinetic analysis of rare gas metastable production and optically pumped Xe lasers. Journal Physics D: Applied Physics, 2018, 51, 045201.	1.3	17
123	Rate Constants for Quenching and Self-Annihilation of NCl(aÎ”). Journal of Physical Chemistry A, 2002, 106, 8427-8434.	1.1	16
124	Quenching of I(2P1/2) by O3 and O(3P). Journal of Physical Chemistry A, 2007, 111, 3010-3015.	1.1	16
125	Experimental and theoretical studies of the CNâ€“Ar van der Waals complex. Journal of Chemical Physics, 2008, 128, 104308.	1.2	16
126	Interpretation of the spontaneous predissociation of Cl2[B3Î(0+u)]. Journal of the Chemical Society, Faraday Transactions 2, 1982, 78, 1339-1344.	1.1	15

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127	I(2P1/2)+O2: Studies of low-temperature electronic energy transfer and nuclear spin-state changing collisions. Journal of Chemical Physics, 1998, 109, 9266-9271.	1.2	15
128	Spectroscopic characterization of the C2â€“Ne van der Waals complex. Journal of Chemical Physics, 2006, 124, 054314.	1.2	15
129	Ionization energy measurements and spectroscopy of HfO and HfO+. Journal of Chemical Physics, 2009, 130, 144503.	1.2	15
130	High-fidelity modelling of an exciplex pumped alkali laser with radiative transport. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 135402.	0.6	15
131	Kinetics of Active Oxygen Species with Implications for Atmospheric Ozone Chemistry. International Journal of Chemical Kinetics, 2015, 47, 93-103.	1.0	15
132	Ab initio interatomic potentials and transport properties of alkali metal (M = Rb and Cs)â€“rare gas (Rg) Tj ETQq0 0 0 rgBT /Overlock 10	1.3	15
133	CHEMICAL DYNAMICS IN CHEMICAL LASER MEDIA. Advanced Series in Physical Chemistry, 2001, , 138-205.	1.5	15
134	Observation and analysis of the Dâ€² â†•Aâ€² transition of I2 in a free-jet expansion. Chemical Physics Letters, 1991, 176, 373-378.	1.2	14
135	Nonadiabatic predissociation of CN(Aâ€‰2Î)â€“Ne. Journal of Chemical Physics, 1993, 98, 753-756.	1.2	14
136	Laser Absorption Spectroscopy of LaF+: Ligand Field Assignment of States in the Range 0â€“4 eV. Journal of Molecular Spectroscopy, 1996, 179, 246-252.	0.4	14
137	State-to-state rotational rate constants for CO+He: Infrared double resonance measurements and simulation of the data using the SAPT theoretical potential energy surface. Journal of Chemical Physics, 2004, 120, 2285-2295.	1.2	14
138	State-to-state rotational relaxation rate constants for CO+Ne from IRâ€“IR double-resonance experiments: Comparing theory to experiment. Journal of Chemical Physics, 2004, 120, 7483-7489.	1.2	14
139	Experimental and theoretical study of the electronic spectrum of BeAl. Physical Chemistry Chemical Physics, 2008, 10, 5403.	1.3	14
140	Multi-dimensional modeling of the XPAL system. , 2010, , .		14
141	Pulsed-field ionization zero electron kinetic energy spectrum of the ground electronic state of BeOBe+. Journal of Chemical Physics, 2011, 134, 044306.	1.2	14
142	Measurement of the rate constant for the quenching of I(2P12) by O2(X) at 150 K. Chemical Physics Letters, 1996, 260, 201-207.	1.2	13
143	Comparison of direct and resonant scattering for H2+CN(Aâ€Š2Î): Collisional energy transfer versus predissociation of CN(A)â€“H2 complexes. Journal of Chemical Physics, 2000, 112, 7416-7424.	1.2	13
144	Spectroscopy of the Aâ€Š2Î”â€“Xâ€Š2Î transition of CH/Dâ€“Ar. Journal of Chemical Physics, 2000, 113, 1775-1780.	1.2	13

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145	Bound states and scattering resonances of OH(A)â€“He. Journal of Chemical Physics, 2005, 123, 064307.	1.2	13
146	Quenching of I(2P 1/2) by O 3 and O(3P). , 2006, , .		13
147	Important kinetic effects in the hybrid ElectricOIL system. , 2006, 6261, 428.		13
148	Theoretical investigations of alkali metal: rare gas interaction potentials. Proceedings of SPIE, 2009, , .	0.8	13
149	Energy Transfer Kinetics of thenp5(n+ 1)pExcited States of Ne and Kr. Journal of Physical Chemistry A, 2011, 115, 9724-9730.	1.1	13
150	Experimental and theoretical studies of the electronic transitions of BeC. Journal of Chemical Physics, 2012, 137, 214313.	1.2	13
151	Kinetics of an optically pumped metastable Ar laser. Proceedings of SPIE, 2014, , .	0.8	13
152	Kinetics of oxygen species in an electrically driven singlet oxygen generator. Chemical Physics, 2015, 463, 65-69.	0.9	13
153	Dative Bonding between Closed-Shell Atoms: The BeF^{â€“} Anion. Journal of Physical Chemistry Letters, 2018, 9, 1999-2002.	2.1	13
154	On the p-fluorotoluene 2710-Ã... band system. Journal of Molecular Spectroscopy, 1984, 106, 330-336.	0.4	12
155	Observation of a new electronic transition of C2. Journal of Chemical Physics, 1987, 87, 4235-4236.	1.2	12
156	Oriented dynamics in van der Waals complexes. Journal of Molecular Spectroscopy, 2003, 222, 31-45.	0.4	12
157	Electronic Spectroscopy of UO₂Cl₂ Isolated in Solid Ar. Journal of Physical Chemistry A, 2009, 113, 12724-12728.	1.1	12
158	Cavity ring-down spectroscopy of the phenyl radical in a pulsed discharge supersonic jet expansion. Chemical Physics Letters, 2011, 507, 216-220.	1.2	12
159	Rotational and vibrational energy transfer in vibrationally excited acetylene at energies near 6560 cmâ^'1. Journal of Chemical Physics, 2011, 135, 244304.	1.2	12
160	Photodetachment spectroscopy of the beryllium oxide anion, BeOâ^'. Journal of Chemical Physics, 2017, 146, 054301.	1.2	12
161	O₂(b¹Î£_g⁺) Quenching by O₂, CO₂, H₂O, and N₂ at Temperatures of 300â€“800 K. Journal of Physical Chemistry A, 2017, 121, 7343-7348.	1.1	12
162	Energy transfer in collisions of excited Ar(3P0.2) metastable atoms with H(2S) atoms. II. Lyman-Î± emission profile. Chemical Physics, 1980, 47, 179-188.	0.9	11

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163	Detection of Arâ^'HI by (2+1) REMPI. Journal of Physical Chemistry A, 1997, 101, 6697-6701.	1.1	11
164	Ab initio molecular-orbital study of the trichlorine radical, Cl3. Journal of Chemical Physics, 1998, 108, 2771-2783.	1.2	11
165	Electronic Structure and Spectra of the RbAr van der Waals System Including Spinâ€“Orbit Interaction. Journal of Physical Chemistry A, 2012, 116, 10589-10596.	1.1	11
166	The permanent electric dipole moment of thorium sulfide, ThS. Journal of Chemical Physics, 2014, 140, 024307.	1.2	11
167	Removal of Rb(6^2P) by H_2, CH_4, and C_2H_6. Optics Letters, 2016, 41, 669.	1.7	11
168	Spectroscopic and theoretical studies of UN and UN+. Journal of Chemical Physics, 2020, 152, 094302.	1.2	11
169	The free jet spectrum of the toluene 2668-Ã... origin band. Journal of Molecular Spectroscopy, 1983, 97, 186-193.	0.4	10
170	Photoselection study of the Br2 Aâ†'X emission system in an argon matrix. Journal of Chemical Physics, 1985, 83, 6538-6539.	1.2	10
171	Rate constants for collisional deactivation of Br2 B 3Î by Br2(X) and He. Chemical Physics, 1986, 103, 407-416.	0.9	10
172	Coriolis coupling and the anomalous rotational isotope effect for CNâ€“H2/D2(j2=1) van der Waals complexes. Chemical Physics Letters, 2001, 347, 199-204.	1.2	10
173	Mechanism and kinetics of iodine dissociation in COIL. , 2002, , .		10
174	Kinetic studies for advanced iodine laser concepts. , 2003, , .		10
175	Bound state spectroscopy of NHâ€“He. Journal of Chemical Physics, 2004, 121, 7549.	1.2	10
176	I* kinetics of relevance to discharge-driven COIL systems. , 2004, , .		10
177	Spectroscopic and Theoretical Investigations of ThS and ThS⁺. Journal of Physical Chemistry A, 2013, 117, 12042-12048.	1.1	10
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