

# Michael C Heaven

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9449723/publications.pdf>

Version: 2024-02-01

323  
papers

6,259  
citations

61857

43  
h-index

128067

60  
g-index

333  
all docs

333  
docs citations

333  
times ranked

2180  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beryllium Dimer "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 UO <sub>2</sub> Molecule. 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 of S(D <sub>2</sub> ) 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 tautom. 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 HeBr <sub>2</sub> 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.σ) and argon-hydroxyl-d(2.σ): 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 <sup>+</sup> . Journal of Chemical Physics, 2006, 124, 064312.	1.2	70
14	Rotational, fine, and hyperfine structure in the high-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 B <sup>1</sup> Σ <sup>+</sup> → X <sup>1</sup> Σ <sup>+</sup> transition of the vinoxyl 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 UO <sub>2</sub> in the gas phase. Journal of Chemical Physics, 2004, 120, 5155-5163.	1.2	65

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

#	ARTICLE	IF	CITATIONS
37	Spectroscopy and relaxation dynamics of I <sub>2</sub> Ar <sub>n</sub> clusters. Geminate recombination and cluster fragmentation. <i>Journal of Chemical Physics</i> , 1992, 97, 6057-6063.	1.2	47
38	Spectroscopy and dynamics of I <sub>2</sub> (B) <sup>+</sup> Ne. <i>Journal of Chemical Physics</i> , 2001, 115, 784-791.	1.2	47
39	Demonstration of a CW diode-pumped Ar metastable laser operating at 4 $\mu$ m. <i>Optics Letters</i> , 2017, 42, 4627.	1.7	46
40	Kinetics of excited states of Br <sub>2</sub> using laser excitation. Part 1. System description and rotationally-dependent lifetimes in Br <sub>2</sub> (B). <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1978, 74, 1992-2013.	1.1	45
41	Laser-induced fluorescence of the BO and BO <sub>2</sub> free radicals. <i>Chemical Physics</i> , 1980, 51, 299-309.	0.9	45
42	Spectroscopy of the AlAr van der Waals complex: Rotationally resolved B <sup>+</sup> $\Sigma$ <sup>+</sup> and $\Sigma$ <sup>+</sup> $\Sigma$ <sup>+</sup> /2 electronic transitions. <i>Journal of Chemical Physics</i> , 1990, 92, 2733-2739.	1.2	45
43	Electronic Spectroscopy of UO. <i>Journal of Molecular Spectroscopy</i> , 1997, 185, 1-7.	0.4	45
44	Spectroscopy and Structure of the Simplest Actinide Bonds. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10867-10881.	1.1	45
45	Direct-potential-fit analyses yield improved empirical potentials for the ground $\Sigma_g^+$ state of Be <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2014, 140, 064315.	1.2	44
46	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O $\rightarrow$ SmO <sup>+</sup> + e <sup>-</sup> . <i>Journal of Chemical Physics</i> , 2015, 142, 134307.	1.2	44
47	Production and characterization of temperature-controlled free radicals in a free jet expansion. <i>Chemical Physics Letters</i> , 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. <i>Optics Communications</i> , 2013, 292, 123-125.	1.0	42
49	Theoretical treatment of the spontaneous predissociation of Br <sub>2</sub> , B <sup>+</sup> $\Sigma$ <sup>+</sup> (O <sub>u</sub> <sup>+</sup> ). <i>Journal of Chemical Physics</i> , 1982, 76, 5341-5349.	1.2	41
50	Spectroscopy and relaxation dynamics of metastable electronically excited states of iodine in rare gas matrices. <i>Chemical Physics</i> , 1991, 151, 219-232.	0.9	40
51	Electronic Spectroscopy of UO <sub>2</sub> Isolated in a Solid Ar Matrix. <i>Journal of the American Chemical Society</i> , 2004, 126, 1812-1815.	6.6	40
52	Improved spectroscopic constants for I <sub>2</sub> D <sup>+</sup> 1 $\Sigma$ <sup>+</sup> . <i>Chemical Physics Letters</i> , 1995, 239, 1-5.	1.2	39
53	Kinetics of optically pumped Ar metastables. <i>Optics Letters</i> , 2014, 39, 6541.	1.7	39
54	Spectroscopy and dynamics of hydride radical van der Waals complexes. <i>International Reviews in Physical Chemistry</i> , 2005, 24, 375-420.	0.9	38

#	ARTICLE	IF	CITATIONS
55	The ionization energy of Be <sub>2</sub> , and spectroscopic characterization of the (1)3 <sup>1</sup> Σ <sup>+</sup> u, (2)3 <sup>1</sup> g, and (3)3 <sup>1</sup> g states. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4006.	1.3	38
56	Vibrational calculations and potential determination for ArOH* (ν=0, 1) and ArOD* (ν=0, 1). <i>Chemical Physics Letters</i> , 1992, 189, 487-494.	1.2	37
57	Ab initio theoretical studies on photodissociation of HNCO upon S <sub>1</sub> (1A <sup>+</sup> )→S <sub>0</sub> (1A <sup>+</sup> ) excitation: The role of internal conversion and intersystem crossing. <i>Journal of Chemical Physics</i> , 1999, 111, 5004-5016.	1.2	36
58	Spectroscopic investigations of ThF and ThF <sup>+</sup> . <i>Journal of Chemical Physics</i> , 2012, 136, 104305.	1.2	36
59	Laser spectra of jet-cooled ions and ion clusters. <i>Journal of Chemical Physics</i> , 1982, 76, 3831-3832.	1.2	35
60	Ionization energy measurements and electronic spectra for ThO. <i>Journal of Chemical Physics</i> , 2005, 122, 204311.	1.2	35
61	Electronic spectroscopy and energy transfer pathways of matrix isolated iodine. <i>Journal of Chemical Physics</i> , 1989, 91, 674-682.	1.2	34
62	Laser Spectroscopy of CeO: Characterization and Assignment of States in the 0-3 eV Range. <i>Journal of Molecular Spectroscopy</i> , 1993, 158, 40-61.	0.4	34
63	Rotationally resolved electronic spectra for uranium monoxide. <i>Chemical Physics Letters</i> , 1985, 119, 229-233.	1.2	33
64	Observation and analysis of the <sup>1</sup> Σ <sup>+</sup> → <sup>1</sup> Δ transition of I <sub>2</sub> in a free-jet expansion. <i>Journal of Molecular Spectroscopy</i> , 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. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994, 11, 219.	0.9	32
66	Spectroscopy of the UO <sub>2</sub> <sup>+</sup> cation and the delayed ionization of UO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2008, 128, 084304.	1.2	31
67	O <sub>2</sub> (a <sup>1</sup> g <sup>+</sup> ) quenching in the O/O <sub>2</sub> /O <sub>3</sub> system. <i>Chemical Physics Letters</i> , 2009, 482, 56-61.	1.2	31
68	The electronic spectrum of the Ar-vinoxy van der Waals complex. <i>Journal of Chemical Physics</i> , 1988, 89, 2768-2774.	1.2	30
69	Chemical formation and spectroscopy of S <sub>2</sub> in a free jet expansion. <i>Journal of Chemical Physics</i> , 1984, 80, 51-56.	1.2	29
70	Electronic spectroscopy and vibrational predissociation dynamics of OH-Kr and OD-Kr. <i>Journal of Chemical Physics</i> , 1992, 97, 1655-1663.	1.2	29
71	Rotationally resolved electronic spectra for the neon hydroxide (NeOH and NeOD) van der Waals complexes. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1720-1722.	2.9	28
72	The permanent electric dipole moments and magnetic g factors of uranium monoxide. <i>Journal of Chemical Physics</i> , 2006, 125, 204314.	1.2	28

#	ARTICLE	IF	CITATIONS
73	Spectroscopic characterization of $\text{Be}_2 + \text{X}^{\infty} \text{I}^2\text{u}^+$ and the ionization energy of $\text{Be}_2$ . <i>Journal of Chemical Physics</i> , 2010, 133, 074309.	1.2	28
74	Kinetics of excited states of $\text{Br}_2$ using laser excitation. Part 2. Radiative lifetime and collisional deactivation of the $\text{B}^3\text{I}(0+\text{u})$ state. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1980, 76, 405-419.	1.1	27
75	Observation and analysis of the $\text{CN}^{\infty} \text{Ne B}^{\infty} \text{X}$ transition. <i>Journal of Chemical Physics</i> , 1991, 94, 5765-5768.	1.2	27
76	Spectroscopy and dynamics of the $\text{H}_2^{\infty} \text{CN}$ van der Waals complex. <i>Journal of Chemical Physics</i> , 1998, 109, 5171-5174.	1.2	27
77	Recent advances in the development of discharge-pumped oxygen-iodine lasers. <i>Laser and Photonics Reviews</i> , 2010, 4, 671-683.	4.4	27
78	Laser-induced fluorescence spectroscopy of ionic clusters between organic cations and inert gases. <i>Chemical Physics Letters</i> , 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. <i>Journal of Chemical Physics</i> , 2002, 116, 9281-9292.	1.2	26
80	On the dissociation of $\text{I}_2$ by $\text{O}_2(a^{\infty} 1^{\infty})$ : Pathways involving the excited species $\text{I}_2(A^{\infty} 2^{\infty} 32\text{u}, A^{\infty} 31\text{u})$ , $\text{I}_2(X^{\infty} 1^{\infty} \dots)$ , and $\text{O}_2(a^{\infty} 1^{\infty}, \dots)$ . <i>Journal of Chemical Physics</i> , 2009, 130, 104306.	1.2	26
81	Production of Ar and Xe metastables in rare gas mixtures in a dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 485203.	1.3	26
82	The free jet cooled, laser induced fluorescence spectrum of symmetric triazine. <i>Journal of Chemical Physics</i> , 1981, 75, 5271-5279.	1.2	25
83	Laser spectroscopy of lead molecules produced by laser vaporization. <i>The Journal of Physical Chemistry</i> , 1983, 87, 2072-2075.	2.9	25
84	Electronic spectroscopy and relaxation dynamics of $\text{OH}^{\infty} \text{Ne}$ and $\text{OD}^{\infty} \text{Ne}$ . <i>Journal of Chemical Physics</i> , 1992, 96, 5020-5032.	1.2	25
85	Role of $\text{O}_2(b)$ and $\text{I}_2(A', A)$ in Chemical Oxygen-Iodine Laser Dissociation Process. <i>AIAA Journal</i> , 2006, 44, 1593-1600.	1.5	25
86	Spectroscopic and Theoretical Investigations of $\text{UF}$ and $\text{UF}^{\infty}$ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 9684-9694.	1.1	25
87	Laser-induced fluorescence spectra of YAG-laser vaporized $\text{Se}_2$ . <i>Chemical Physics Letters</i> , 1982, 91, 251-257.	1.2	24
88	Potential surface and dissociation energies from high-resolution electronic spectroscopy of $\text{Ne}^{\infty} \text{OH}$ . <i>Chemical Physics Letters</i> , 1993, 207, 62-68.	1.2	24
89	Fluorescence depletion spectroscopy of the $\text{CH/D}^{\infty} \text{Ne B}^{\infty} 2^{\infty} \text{X}^{\infty} 2^{\infty}$ transition. <i>Journal of Chemical Physics</i> , 1995, 103, 7218-7227.	1.2	24
90	Ion dissociation dynamics of the chlorine azide cation ( $\text{ClN}_3^+$ ) investigated by velocity map imaging. <i>Journal of Chemical Physics</i> , 2003, 118, 10485-10493.	1.2	24

#	ARTICLE	IF	CITATIONS
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 CN <sup>+</sup> Ne. Journal of Chemical Physics, 1997, 107, 7163-7178.	1.2	23
93	Photodissociation dynamics of ClN <sub>3</sub> at 203 nm: the NCl (I) product branching ratio. Chemical Physics Letters, 2003, 368, 568-573.	1.2	23
94	Quantum-resolved dynamics of excited states. Part 5. The long-lived A <sup>3</sup> $\Sigma^+$ (1u) state of Br <sub>2</sub> . 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 <sup>2</sup> $\Sigma^+$ states of OH-Ar and OD-Ar. Chemical Physics Letters, 1990, 167, 597-601.	1.2	22
97	Inelastic collision dynamics of vibrationally excited I <sub>2</sub> (X). Journal of Chemical Physics, 1997, 106, 127-141.	1.2	22
98	The one-atom cage effect in I <sub>2</sub> (B) <sup>+</sup> 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 4f <sup>7</sup> (8S)6p $\rightarrow$ 4f <sup>7</sup> (8S)6s Transitions. Journal of Molecular Spectroscopy, 1994, 165, 323-333.	0.4	21
101	Potential energy surface and vibrational eigenstates of the H <sub>2</sub> <sup>+</sup> CN(X <sup>2</sup> $\Sigma^+$ ) 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 Br <sub>2</sub> . Collisional energy transfer involving resolved quantum states of excited Br <sub>2</sub> B <sup>3</sup> $\Sigma^+$ (0u <sup>+</sup> ). Journal of the Chemical Society, Faraday Transactions 2, 1980, 76, 961-978.	1.1	19
105	Laser-induced fluorescence of IBr: the B <sup>3</sup> $\Sigma^+$ (0 <sup>+</sup> ) 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 low-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 the B <sup>1</sup> $\Sigma^+$ X <sup>1</sup> $\Sigma^+$ Transition. Journal of Molecular Spectroscopy, 1997, 182, 50-56.	0.4	19

#	ARTICLE	IF	CITATIONS
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 I <sub>2</sub> (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 H <sub>2</sub> â€“NH(X) van der Waals complex. Journal of Chemical Physics, 2005, 122, 144318.	1.2	18
114	Kinetics of O <sub>2</sub> (a <sup>1</sup> g) and I(2P <sub>1/2</sub> ) in the Photochemistry of N <sub>2</sub> O/I <sub>2</sub> Mixturesâ€“. 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 $\hat{I}^2\hat{a}\hat{e},\hat{a}\hat{t}\hat{a}\hat{e},\langle i \rangle A\langle i \rangle$ 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 <sup>+</sup> 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(a <sup>1</sup> ). Journal of Physical Chemistry A, 2002, 106, 8427-8434.	1.1	16
124	Quenching of I(2P <sub>1/2</sub> ) by O <sub>3</sub> 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 Cl <sub>2</sub> [B <sub>3</sub> (0 <sup>+</sup> u)]. Journal of the Chemical Society, Faraday Transactions 2, 1982, 78, 1339-1344.	1.1	15



#	ARTICLE	IF	CITATIONS
127	I(2P <sub>1/2</sub> )+O <sub>2</sub> : 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 C <sub>2</sub> 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 <sup>+</sup> . 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) 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 D <sub>2</sub> A <sup>2</sup> transition of I <sub>2</sub> in a free-jet expansion. Chemical Physics Letters, 1991, 176, 373-378.	1.2	14
135	Nonadiabatic predissociation of CN(A <sup>2</sup> )Ne. Journal of Chemical Physics, 1993, 98, 753-756.	1.2	14
136	Laser Absorption Spectroscopy of LaF <sup>+</sup> : Ligand Field Assignment of States in the Range 0-4 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 IR-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 <sup>+</sup> . Journal of Chemical Physics, 2011, 134, 044306.	1.2	14
142	Measurement of the rate constant for the quenching of I(2P <sub>1/2</sub> ) by O <sub>2</sub> (X) at 150 K. Chemical Physics Letters, 1996, 260, 201-207.	1.2	13
143	Comparison of direct and resonant scattering for H <sub>2</sub> +CN(A <sup>2</sup> ): Collisional energy transfer versus predissociation of CN(A)H <sub>2</sub> complexes. Journal of Chemical Physics, 2000, 112, 7416-7424.	1.2	13
144	Spectroscopy of the A <sup>2</sup> X <sup>2</sup> transition of CH/D <sup>+</sup> Ar. Journal of Chemical Physics, 2000, 113, 1775-1780		13

#	ARTICLE	IF	CITATIONS
145	Bound states and scattering resonances of OH(A) $\hat{\epsilon}$ He. Journal of Chemical Physics, 2005, 123, 064307.	1.2	13
146	Quenching of I(2P 1/2) by O <sub>3</sub> 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 <sup>+</sup> Anion. Journal of Physical Chemistry Letters, 2018, 9, 1999-2002.	2.1	13
154	On the p-fluorotoluene 2710-Å... band system. Journal of Molecular Spectroscopy, 1984, 106, 330-336.	0.4	12
155	Observation of a new electronic transition of C <sub>2</sub> . 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 UO <sub>2</sub> Cl <sub>2</sub> 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 cm <sup>-1</sup> . Journal of Chemical Physics, 2011, 135, 244304.	1.2	12
160	Photodetachment spectroscopy of the beryllium oxide anion, BeO <sup>-</sup> . Journal of Chemical Physics, 2017, 146, 054301.	1.2	12
161	O <sub>2</sub> (b <sup>1</sup> g <sup>+</sup> ) Quenching by O <sub>2</sub> , CO <sub>2</sub> , H <sub>2</sub> O, and N <sub>2</sub> at Temperatures of 300-800 K. Journal of Physical Chemistry A, 2017, 121, 7343-7348.	1.1	12
162	Energy transfer in collisions of excited Ar(3P <sub>0,2</sub> ) metastable atoms with H(2S) atoms. II. Lyman- $\hat{\epsilon}$ emission profile. Chemical Physics, 1980, 47, 179-188.	0.9	11

#	ARTICLE	IF	CITATIONS
163	Detection of Ar <sup>+</sup> 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, Cl <sub>3</sub> . Journal of Chemical Physics, 1998, 108, 2771-2783.	1.2	11
165	Electronic Structure and Spectra of the RbAr van der Waals System Including Spin-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 <sup>2</sup> P) by H <sub>2</sub> , CH <sub>4</sub> , and C <sub>2</sub> H <sub>6</sub> . Optics Letters, 2016, 41, 669.	1.7	11
168	Spectroscopic and theoretical studies of UN and UN <sup>+</sup> . Journal of Chemical Physics, 2020, 152, 094302.	1.2	11
169	The free jet spectrum of the toluene 2668-Å... origin band. Journal of Molecular Spectroscopy, 1983, 97, 186-193.	0.4	10
170	Photoselection study of the Br <sub>2</sub> A <sup>+</sup> 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 Br <sub>2</sub> B 3 <sup>1</sup> by Br <sub>2</sub> (X) and He. Chemical Physics, 1986, 103, 407-416.	0.9	10
172	Coriolis coupling and the anomalous rotational isotope effect for CN <sup>+</sup> H <sub>2</sub> /D <sub>2</sub> (j=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 NH <sup>+</sup> 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 <sup>+</sup> . Journal of Physical Chemistry A, 2013, 117, 12042-12048.	1.1	10
178	Spectroscopic and theoretical studies of ThCl and ThCl <sup>+</sup> . Journal of Chemical Physics, 2017, 146, 054307.	1.2	10
179	Molecular Spectroscopy and Reactions of Actinides in the Gas Phase and Cryogenic Matrices. , 2010, , 4079-4156.		10
180	Investigation of dual-wavelength pump schemes for optically pumped rare gas lasers. Optics Express, 2020, 28, 14580.	1.7	10

#	ARTICLE	IF	CITATIONS
181	Laser Spectroscopy of ScF: Analysis of Perturbations in the F1 <sup>+</sup> -A1 <sup>+</sup> System. Journal of Molecular Spectroscopy, 1995, 171, 569-575.	0.4	9
182	Velocity modulated laser absorption spectroscopy of TiCl+. Journal of Chemical Physics, 1997, 107, 7020-7024.	1.2	9
183	Spectroscopy and Relaxation Kinetics of Matrix-Isolated CH/D Radicals. Journal of Physical Chemistry A, 2000, 104, 3842-3851.	1.1	9
184	Theoretical prediction of the rate constant for I+O <sub>2</sub> ( $\tilde{S}[sup 1] \tilde{I}^{\prime}[sub g]$ ) electronic energy transfer: A surface-hopping trajectory study. Journal of Chemical Physics, 2001, 114, 215.	1.2	9
185	Temperature dependence of the O+I(P21/2) $\rightarrow$ O+I(P23/2) quenching rate constant. Journal of Applied Physics, 2009, 105, 094911.	1.1	9
186	Probing rotational relaxation in HBr (v=1) using double resonance spectroscopy. Journal of Chemical Physics, 2009, 130, 074305.	1.2	9
187	XPAL modeling and theory. Proceedings of SPIE, 2011, , .	0.8	9
188	Electronic Spectroscopy and Photoionization of LiMg. Journal of Physical Chemistry A, 2021, 125, 3653-3663.	1.1	9
189			

#	ARTICLE	IF	CITATIONS
199	Laser-excitation study of triplet CO. Journal of the Chemical Society, Faraday Transactions 2, 1981, 77, 1375.	1.1	7
200	Lifetimes of the lowest excited states of the cyclopentadienyl and the monomethylcyclopentadienyl radicals. Chemical Physics Letters, 1986, 124, 489-492.	1.2	7
201	Electronic quenching of I <sub>2</sub> B <sup>2</sup> Σ <sup>+</sup> (O <sub>u</sub> ) by He at low collision energies. Journal of Chemical Physics, 1986, 84, 6694-6698.	1.2	7
202	Electronic spectroscopy and fluorescence decay dynamics of matrix isolated iodine bromide. The Journal of Physical Chemistry, 1992, 96, 4301-4306.	2.9	7
203	Spectroscopy of Metastable Species in a Free-Jet Expansion: The D <sup>2</sup> Δ <sup>+</sup> →A <sup>2</sup> Δ <sup>+</sup> Transition in Br <sub>2</sub> . Journal of Molecular Spectroscopy, 1996, 177, 311-319.	0.4	7
204	Laser Absorption Spectroscopy of TiCl <sup>+</sup> : Analysis of the [17.9]3 <sup>+</sup> →X3 <sup>+</sup> (0,0) Band. Journal of Molecular Spectroscopy, 1997, 184, 113-119.	0.4	7
205	Quenching of I(2P <sub>1/2</sub> ) by Cl <sub>2</sub> and Cl Atoms over the Temperature Range 297–663 K. Journal of Physical Chemistry A, 2003, 107, 10527-10532.	1.1	7
206	Formation of I <sub>2</sub> (B <sup>3</sup> Σ <sup>+</sup> ) in the presence of O <sub>2</sub> (a <sup>1</sup> Σ <sup>+</sup> ). Journal of Applied Physics, 2007, 102, 123108.	1.1	7
207	Low-lying states of HfS <sup>+</sup> and the ionization energy of HfS. Journal of Molecular Spectroscopy, 2012, 275, 35-40.	0.4	7
208	A pared-down gas-phase kinetics for the chemical oxygen-iodine laser medium. Chemical Physics, 2013, 425, 80-90.	0.9	7
209	Spectroscopic and theoretical studies of the low-lying states of BaO <sup>+</sup> . Journal of Chemical Physics, 2015, 143, 044302.	1.2	7
210	Collisional relaxation of O <sub>2</sub> (a <sup>1</sup> Σ <sup>+</sup> , $\dot{\Sigma}^{-}$ = 1, 2, 3) by CO <sub>2</sub> . Chemical Physics Letters, 2018, 691, 456-461.	1.2	7
211	Spectroscopy of Metastable Species in a Free-Jet Expansion: The D <sup>2</sup> Δ <sup>+</sup> →A <sup>2</sup> Δ <sup>+</sup> Transition of IBr. Journal of Molecular Spectroscopy, 1994, 164, 135-151.	0.4	6
212	Ab initio potential energy surfaces for the I(2P <sub>3/2</sub> )+O <sub>2</sub> (a <sup>1</sup> Σ <sup>+</sup> g)→I(2P <sub>1/2</sub> )+O <sub>2</sub> (X <sup>3</sup> Σ <sup>+</sup> g) energy transfer process. Chemical Physics Letters, 1998, 289, 110-117.	1.2	6
213	Cl <sup>3+</sup> electron photodetachment spectrum: measurement and assignment. Chemical Physics Letters, 1999, 306, 48-52.	1.2	6
214	Potential energy surfaces for CH(A <sup>2</sup> Σ <sup>+</sup> )→Ar and analysis of the A <sup>2</sup> Σ <sup>+</sup> →X <sup>2</sup> Σ <sup>+</sup> band system. Journal of Chemical Physics, 2001, 115, 2123-2133.	1.2	6
215	Spectroscopy, dissociation dynamics, and potential energy surfaces for CN(A <sup>2</sup> Σ <sup>+</sup> )→Ar. Journal of Chemical Physics, 2008, 128, 224309.	1.2	6
216	Multi-pathway I <sub>2</sub> dissociation model for COIL. Proceedings of SPIE, 2008, , .	0.8	6

#	ARTICLE	IF	CITATIONS
217	On the Ionization Energy of HfO. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12353-12355.	1.1	6
218	The pure rotational spectrum of thorium monosulfide, ThS. <i>Chemical Physics Letters</i> , 2015, 639, 304-306.	1.2	6
219	Theoretical investigation of RbXe and CsXe excimers including the spin-orbit interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 205101.	0.6	6
220	Production of Ar metastables in a dielectric barrier discharge. <i>Proceedings of SPIE</i> , 2017, , .	0.8	6
221	Computational investigation of energy transfer and line broadening for Ar* + He collisions. <i>Journal of Chemical Physics</i> , 2019, 151, 224306.	1.2	6
222	Perturbations of the $\sigma^2 1^1$ and $\sigma^2 1^+$ states of CaO. <i>Journal of Molecular Spectroscopy</i> , 2020, 370, 111293.	0.4	6
223	Dipole-phonon quantum logic with alkaline-earth monoxide and monosulfide cations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24964-24973.	1.3	6
224	A potential surface for argon-hydroxyl ( $\Sigma$ ) and argon-hydroxyl- $\Sigma$ : fitting and assigning experimental data with rigorous theory [Erratum to document cited in CA112(16):148220y]. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8858-8858.	2.9	5
225	Comment on: Observation of an excimer band of the ArOD van der Waals molecule. <i>Journal of Chemical Physics</i> , 1990, 93, 872-873.	1.2	5
226	State-to-state predissociation dynamics of CN-Ne. , 1993, 1858, 286.		5
227	Photolysis of Matrix-Isolated HCl-Cl <sub>2</sub> Complexes: Electronic Absorption and Emission Spectra Provisionally Assigned to Cl <sub>3</sub> . <i>The Journal of Physical Chemistry</i> , 1996, 100, 18702-18707.	2.9	5
228	Experimental and theoretical investigation of the $\sigma^2 1^1$ transition of NH/D-Ne. <i>Journal of Chemical Physics</i> , 2003, 119, 8424-8436.	1.2	5
229	Re-examination of the role of O <sub>2</sub> (b) in the I <sub>2</sub> dissociation mechanism. , 2004, 5334, 53.		5
230	Structure in the Visible Absorption Bands of Jet-Cooled Phenylperoxy Radicals. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7484-7491.	1.1	5
231	Near UV bands of jet-cooled CaO. <i>Journal of Molecular Spectroscopy</i> , 2016, 322, 18-21.	0.4	5
232	O <sub>2</sub> (b <sup>1</sup> $\Sigma^+$ <sub>g</sub> ) Removal by H <sub>2</sub> , CO, N <sub>2</sub> O, CH <sub>4</sub> , and C <sub>2</sub> H <sub>4</sub> in the 300-800 K Temperature Range. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5283-5288.	1.1	5
233	Characterization of gas-phase thorium nitride. <i>Journal of Chemical Physics</i> , 2019, 150, 144304.	1.2	5
234	Electronic Spectroscopy and Photoionization of LiBe. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8274-8281.	1.1	5

#	ARTICLE	IF	CITATIONS
235	Chemical branching in the oxygen-atom reaction with vinyl fluoride. Pressure dependence of the route atomic oxygen + vinyl fluoride. fluoromethyl (CH <sub>2</sub> F) + formyl (HCO). The Journal of Physical Chemistry, 1984, 88, 2821-2827.	2.9	4
236	Ejection of CN(A) from CN(B) Ar <sub>n</sub> clusters and the radiative lifetime of CN(A, 7 $\frac{1}{2}$ ... $\frac{1}{2}$ 9). Journal of Chemical Physics, 1998, 109, 2808-2813.	1.2	4
237	Kinetic spectroscopy of NCl. , 2000, , .		4
238	An ab Initio Excursion on the Lowest 18 Electronic Surfaces of the NCl + NCl System: Some Insight into the Long-Range Self-Quenching Pathways of the First Excited State of NCl. Journal of Physical Chemistry A, 2002, 106, 8453-8460.	1.1	4
239	Universal scaling features of spectroscopic constants for diatomic systems. Journal of Chemical Physics, 2006, 125, 106101.	1.2	4
240	Ab initio investigation of the NH(X) N <sub>2</sub> van der Waals complex. Journal of Chemical Physics, 2007, 126, 154311.	1.2	4
241	Quenching of I(2P <sub>1/2</sub> ) by NO <sub>2</sub> , N <sub>2</sub> O <sub>4</sub> , and N <sub>2</sub> O. Journal of Physical Chemistry A, 2007, 111, 10062-10067.	1.1	4
242	Collisional quenching and radiation trapping kinetics for Rb(5p) in the presence of ethane. , 2008, , .		4
243	<title>On the O<math>\langle inf \rangle \langle roman \rangle 2 \langle /roman \rangle \langle /math \rangle \langle emph \rangle Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (turn excited ozone</title>. , 2010, , .		4
244	Electron attachment to chlorine azide at 298 and 400 K. Journal of Chemical Physics, 2010, 132, 134308.	1.2	4
245	Experimental and Theoretical Investigations of Rotational Energy Transfer in HBr + He Collisions. Journal of Physical Chemistry A, 2010, 114, 11109-11116.	1.1	4
246	I <sub>2</sub> dissociation by O <sub>2</sub> (a <sup>1</sup> $\pi$ ) generated from the reaction O(1D)+N <sub>2</sub> O. Chemical Physics Letters, 2011, 502, 150-153.	1.2	4
247	Incomplete ozone recovery effect in the presence of active oxygen species. Bulletin of the Lebedev Physics Institute, 2016, 43, 20-25.	0.1	4
248	Product channels of the reactions of O <sub>2</sub> (b <sup>1</sup> $\Sigma$ <sup>+</sup> ). Chemical Physics, 2019, 521, 85-91.	0.9	4
249	Interactions between CN radicals and rare gas atoms. Advances in Molecular Vibrations and Collision Dynamics, 1998, , 91-126.	0.8	4
250	Lasing in optically pumped Ar:He mixture excited in a dielectric barrier discharge. , 2019, , .		4
251	Laser Photoacoustic Spectroscopy for Trace Level Detection of Actinides in Groundwater. Materials Research Society Symposia Proceedings, 1986, 84, 173.	0.1	3
252	Concerning the stability of dichlorodiazene. Chemical Physics Letters, 2003, 370, 418-424.	1.2	3

#	ARTICLE	IF	CITATIONS
253	Observation of fast O <sub>2</sub> (a <sup>1</sup> g <sup>+</sup> ) quenching in the O/O <sub>2</sub> /O <sub>3</sub> system. , 2007, , .		3
254	A simplified kinetic model for the COIL active medium. Proceedings of SPIE, 2011, , .	0.8	3
255	Collisional relaxation of the Kr(4p <sup>5</sup> 5p) states in He, Ne, and Kr. , 2012, , .		3
256	Characterization of the BaCl <sup>+</sup> (X1 <sup>1</sup> g <sup>+</sup> ) cation by photoelectron spectroscopy. Journal of Molecular Spectroscopy, 2015, 316, 119-121.	0.4	3
257	Pulsed discharge production Ar* metastables. Proceedings of SPIE, 2016, , .	0.8	3
258	Spectroscopy of the low-lying states of CaO <sup>+</sup> . Journal of Molecular Spectroscopy, 2018, 344, 17-20.	0.4	3
259	Laser induced fluorescence spectroscopy of jet-cooled ThO. Journal of Molecular Spectroscopy, 2019, 360, 39-43.	0.4	3
260	The electronic structure of the actinide oxides and their singly and doubly charged cations: A ligand field approach. International Journal of Quantum Chemistry, 2021, 121, e26588.	1.0	3
261	Gas-Phase Reactivity of Ozone with Lanthanide Ions (Sm <sup>+</sup> , Nd <sup>+</sup> ) and Their Higher Oxides. Journal of the American Society for Mass Spectrometry, 2022, , .	1.2	3
262	Spectroscopy of charge-transfer transitions in jet-cooled IBr. Chemical Physics Letters, 1992, 195, 273-278.	1.2	2
263	Spectroscopy and energy transfer dynamics of I <sub>2</sub> levels in the 1.0-1.3 eV range. , 1993, , .		2
264	Photodissociation of ClN <sub>3</sub> and quenching of NCl(a) at elevated temperatures. , 2004, , .		2
265	Kinetic studies for advanced iodine laser concepts. , 2005, , .		2
266	Spectroscopic and theoretical characterization of the A <sup>1</sup> g <sup>+</sup> -X <sup>1</sup> g <sup>+</sup> transition of CH <sup>+</sup> Ne. Journal of Chemical Physics, 2005, 123, 054304.	1.2	2
267	A Model for the Prediction of I <sub>2</sub> Fluorescence in the Presence of Pulsed Laser Radiation utilizing Computational Fluid Dynamic Simulation Datasets. , 2007, , .		2
268	Formation and quenching mechanisms of excited particles in an oxygen-iodine laser medium. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2009, 107, 363-367.	0.2	2
269	O <sub>2</sub> (a <sup>1</sup> g <sup>+</sup> ) Quenching In The O <sup>+</sup> -O <sub>2</sub> -O <sub>3</sub> System. , 2010, , .		2
270	Electronic Absorption Spectra of the RbAr Van der Waals Complex. AIP Conference Proceedings, 2011, , .	0.3	2



#	ARTICLE	IF	CITATIONS
271	Potential energy surfaces for the interactions of excited Rb and Cs atoms with methane. , 2012, , .		2
272	Mechanism of singlet oxygen deactivation in an electric discharge oxygen $\hat{\epsilon}$ iodine laser. Quantum Electronics, 2014, 44, 1083-1084.	0.3	2
273	Theoretical study of vibronic perturbations in magnesium carbide. Molecular Physics, 2016, 114, 162-171.	0.8	2
274	Product channels of the reactions of Rb( $6^2P$ ) with H <sub>2</sub> , CH <sub>4</sub> and C <sub>2</sub> H <sub>6</sub> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 196, 46-52.	1.1	2
275	Pressure dependence of chemical branching in the oxygen-atom reaction with allyl chloride. Chemical Physics Letters, 1984, 103, 408-412.	1.2	1
276	I( $2P\ 1/2$ )+O <sub>2</sub> : studies of low-temperature electronic energy transfer and nuclear spin state changing collisions. , 1999, , .		1
277	Room temperature rate constant for H+F <sub>2</sub> . , 2002, 4631, 225.		1
278	Chemical kinetics of discharge-driven oxygen-iodine lasers. , 2006, 6346, 156.		1
279	Reactions of Negative Ions with ClN <sub>3</sub> at 300 K. Journal of Physical Chemistry A, 2010, 114, 6832-6836.	1.1	1
280	Turn the Molecule This Way for a Faster Reaction. Science, 2013, 342, 46-47.	6.0	1
281	Gas Flow Visualization Using Laser-induced Fluorescence. Procedia Engineering, 2015, 106, 92-96.	1.2	1
282	Molecular singlet delta oxygen quenching kinetics in the EOIL system. Proceedings of SPIE, 2015, , .	0.8	1
283	Deactivation and reaction of excited states of Rb in collisions with H <sub>2</sub> , CH <sub>4</sub> and C <sub>2</sub> H <sub>6</sub> . , 2016, , .		1
284	Pressure broadening coefficients for the 811.5 nm Ar line and 811.3 nm Kr line in rare gases. Proceedings of SPIE, 2017, , .	0.8	1
285	Improved vibrational constants for BaCl+ X <sup>1</sup> $\Sigma^+$ . Journal of Molecular Spectroscopy, 2019, 363, 111176.	0.4	1
286	Characterization of the Ground States of BeC <sub>2</sub> and BeC <sub>2</sub> <sup>+</sup> via Photoelectron Velocity Map Imaging Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 88-92.	2.1	1
287	Spectroscopy and electronic structure of the hypermetallic oxide, MgOMg. Journal of Chemical Physics, 2020, 153, 054308.	1.2	1
288	Spectroscopy and electronic structure of the low-energy states of ThN. Journal of Molecular Spectroscopy, 2021, 377, 111426.	0.4	1

#	ARTICLE	IF	CITATIONS
289	Collisional relaxation of highly excited vibrational levels of I <sub>2</sub> (X). European Physical Journal Special Topics, 1994, 04, C4-729-C4-737.	0.2	1
290	O <sub>2</sub> (a <sup>1</sup> Δ <sup>+</sup> ) vibrational kinetics in oxygen-iodine laser. , 2018, , .		1
291	Increase of the barium ion-trap lifetime via photodissociation. Physical Review A, 2021, 104, .	1.0	1
292	Energy transfer processes for I <sub>2</sub> (İ <sub>2</sub> ) of relevance to COIL. , 1996, , .		0
293	COIL chemical kinetics package revisited: a re-analysis of molecular iodine dissociation rate data. , 2000, , .		0
294	State-to-State Rotational Translational Relaxation Rate Constants for CO-He: An Evaluation of the Theoretical Intermolecular Potential Surfaces Using Infrared-Infrared Double Resonance. , 2003, , .		0
295	Diode laser-based diagnostic for NCl(X). , 2003, 4971, 22.		0
296	State-to-state rotational relaxation rate constants for the CO+X series (X=CO, He, and Ne) using IR-IR double resonance experiments: comparing theory to experiment. , 2004, 5448, 906.		0
297	Investigation of the Role of Electronically Excited I <sub>2</sub> in the COIL Dissociation Process. , 2005, , .		0
298	Kinetics of Singlet NCl Following the Photodissociation of NCl <sub>3</sub> . , 2005, , .		0
299	Biography of Ming-Chang Lin. Journal of Physical Chemistry A, 2007, 111, 6569-6571.	1.1	0
300	I <sub>2</sub> (B) formation in the oxygen-iodine laser medium. , 2007, , .		0
301	A method for comparison of computational fluid dynamic simulation and planar laser induced fluorescence images for a supersonic flowfield. Proceedings of SPIE, 2008, , .	0.8	0
302	Advanced kinetic package for COIL. Proceedings of SPIE, 2008, , .	0.8	0
303	Iodine dissociation in the photochemistry of N <sub>2</sub> /O <sub>2</sub> mixtures. Proceedings of SPIE, 2010, , .	0.8	0
304	Theoretical Investigations of Alkali Metal-Rare Gas Photodissociation Lasers. , 2010, , .		0
305	O <sub>2</sub> (a <sup>1</sup> Δ <sup>+</sup> ) quenching in O <sub>2</sub> /O <sub>3</sub> /CO <sub>2</sub> /He/Ar mixtures. Proceedings of SPIE, 2010, , .	0.8	0
306	Energy transfer kinetics of the np <sup>5</sup> (n+1)p excited states of Ne and Kr. Proceedings of SPIE, 2011, , .	0.8	0

#	ARTICLE	IF	CITATIONS
307	Reactions of positive ions with ClN <sub>3</sub> at 300K. International Journal of Mass Spectrometry, 2011, 303, 220-224.	0.7	0
308	New electronic transitions of the rubidium dimer. Proceedings of SPIE, 2011, , .	0.8	0
309	Preface to the Terry A. Miller Festschrift. Journal of Physical Chemistry A, 2013, 117, 13207-13208.	1.1	0
310	Two-photon excitation of the 2 $\hat{1}$ (4p) $\hat{\leftarrow}$ X2 $\hat{1}$ (3p) transition of AlAr. Journal of Molecular Spectroscopy, 2014, 297, 1-3.	0.4	0
311	Pressure broadening of Ar (811.5 nm) by neon. , 2016, , .		0
312	Vibrational kinetics of molecular singlet oxygen. , 2016, , .		0
313	Oxygen assisted iodine atoms production in an RF discharge. , 2016, , .		0
314	Optical pumping of the oxygen-iodine laser medium. Proceedings of SPIE, 2016, , .	0.8	0
315	Measurement of pressure broadening of the Kr absorption line at 811.3 nm with a diode laser. Proceedings of SPIE, 2016, , .	0.8	0
316	V-T relaxation of vibrationally excited singlet oxygen molecule in the EOIL systems. Proceedings of SPIE, 2017, , .	0.8	0
317	Ozone recovery in the presence of CO and N <sub>2</sub> O. MATEC Web of Conferences, 2018, 209, 00016.	0.1	0
318	Potential Energy Curves for Excited States of Ar in He and Transition Rate Constants in ArHe Calculated By Ab Initio Methods. , 2018, , .		0
319	O <sub>2</sub> (b $\hat{1}\hat{\Sigma}^+_g$ ) removal by I <sub>2</sub> and NO at temperatures of 297 $\hat{\leftarrow}$ 750 $\hat{\leftarrow}$ K. Chemical Physics Letters, 2019, 735, 1367742		0
320	Probing actinide electronic structure using fluorescence and multiphoton ionization spectroscopy. , 2006, , 140-154.		0
321	Optically pumped rare gas lasers. , 2019, , .		0
322	Calculation of Potential Energy Curves for Ar* $\hat{\leftarrow}$ He Collision Complex. Bulletin of the Lebedev Physics Institute, 2020, 47, 300-302.	0.1	0
323	An Investigation of Dual-pump Schemes for Optically pumped Rare Gas Lasers. , 2020, , .		0