

Michael C Heaven

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h-index

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333
ext. papers

5,806
ext. citations

3.7
avg, IF

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L-index

#	Paper	IF	Citations
289	Beryllium dimer--caught in the act of bonding. <i>Science</i> , 2009 , 324, 1548-51	33.3	175
288	Kinetics of polyatomic free radicals produced by laser photolysis. 3. Reaction of vinyl radicals with molecular oxygen. <i>Journal of the American Chemical Society</i> , 1984 , 106, 4356-4361	16.4	111
287	Spectroscopy and Dynamics of Open-Shell Van Der Waals Molecules. <i>Annual Review of Physical Chemistry</i> , 1992 , 43, 283-310	15.7	104
286	The electronic spectrum of the UO ₂ molecule. <i>Journal of the American Chemical Society</i> , 2005 , 127, 86-91	16.4	99
285	Observation of ArOH and ArOD by laser induced fluorescence. <i>Journal of Chemical Physics</i> , 1988 , 89, 7030-7031	3.9	84
284	Simultaneous Measurement of Recoil Velocity and Alignment of S(1D ₂) Atoms in Photodissociation of OCS. <i>Physical Review Letters</i> , 1996 , 77, 830-833	7.4	73
283	A potential surface for argon-hydroxyl(2.SIGMA.) and argon-hydroxyl-d(2.SIGMA.): fitting and assigning experimental data with rigorous theory. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 2226-2229		69
282	Laser induced fluorescence study of the HeBr ₂ van der Waals complex. <i>Journal of Chemical Physics</i> , 1984 , 81, 5514-5520	3.9	68
281	Spectroscopy of the ground and low-lying excited states of ThO ⁺ . <i>Journal of Chemical Physics</i> , 2006 , 124, 64312	3.9	65
280	Spectroscopy and dynamics of hydride radical van der Waals complexes. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 8567-8577		65
279	Rotational, fine, and hyperfine structure in the high-resolution electronic spectrum of ArOH and ArOD. <i>Journal of Chemical Physics</i> , 1991 , 95, 7086-7098	3.9	63
278	Laser induced fluorescence study of the B 2A [?] -jX 2A [?] transition of the vinoxy radical in a supersonic free jet expansion. <i>Journal of Chemical Physics</i> , 1984 , 81, 2339-2346	3.9	63
277	Kinetics of polyatomic free radicals produced by laser photolysis. 4. Study of the equilibrium isopropyl + oxygen .tautm. isopropylperoxy between 592 and 692 K. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1838-1845	16.4	63
276	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. <i>Journal of Molecular Spectroscopy</i> , 1994 , 164, 27-65	1.3	60
275	Laser-induced fluorescence spectra of free-jet cooled organic free radicals. Vinoxy, cyclopentadienyl, and benzyl. <i>Chemical Physics Letters</i> , 1983 , 95, 347-351	2.5	60
274	Gain and lasing of optically pumped metastable rare gas atoms. <i>Optics Letters</i> , 2012 , 37, 2157-9	3	59
273	The unique bonding characteristics of beryllium and the Group IIA metals. <i>Chemical Physics Letters</i> , 2011 , 506, 1-14	2.5	58

272	Electronic spectroscopy and ionization potential of UO ₂ in the gas phase. <i>Journal of Chemical Physics</i> , 2004 , 120, 5155-63	3.9	57
271	Rotationally resolved electronic spectrum of jet-cooled cyclopentadienyl radical. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 4263-4266		56
270	Electronic spectroscopy of the ArOH and ArOD complexes. <i>Journal of Chemical Physics</i> , 1990 , 92, 909-916	3.9	55
269	The Electronic Structure of the Lanthanide Monohalides: A Ligand Field Approach. <i>Journal of Molecular Spectroscopy</i> , 1996 , 179, 310-319	1.3	53
268	Probing actinide electronic structure using fluorescence and multi-photon ionization spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 4497-509	3.6	52
267	Dissociation dynamics of I ₂ (B) $\bar{\nu}$ r: Rotational population distributions of I ₂ (B,v) fragments from the T-shaped and linear complexes. <i>Journal of Chemical Physics</i> , 2001 , 114, 7027-7035	3.9	51
266	Two-photon absorption, laser-induced fluorescence detection of Cl atoms. <i>Chemical Physics Letters</i> , 1982 , 86, 458-462	2.5	51
265	Optically pumped microplasma rare gas laser. <i>Optics Express</i> , 2015 , 23, 4804-13	3.3	48
264	Bonding in beryllium clusters. <i>Annual Review of Physical Chemistry</i> , 2011 , 62, 375-93	15.7	48
263	Density functional calculations of beryllium clusters Be _n , n=2B. <i>Chemical Physics</i> , 2000 , 262, 15-23	2.3	48
262	Laser vaporization of tin: Spectra and ground state molecular parameters of Sn ₂ . <i>Journal of Chemical Physics</i> , 1983 , 78, 3593-3598	3.9	48
261	Spectroscopy of metastable species in a free-jet expansion: The D $\bar{\nu}$ -A $\bar{\nu}$ transition of I ₂ . <i>Journal of Chemical Physics</i> , 1992 , 96, 4877-4883	3.9	46
260	Kinetics and mechanism of the reaction of vinyl radicals with molecular oxygen. <i>Chemical Physics Letters</i> , 1984 , 104, 469-474	2.5	46
259	Probing the electronic structure of UO ⁺ with high-resolution photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2006 , 125, 133202	3.9	45
258	Accurate ionization potentials for UO and UO ₂ : a rigorous test of relativistic quantum chemistry calculations. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7176-7	16.4	45
257	Spectroscopy and relaxation dynamics of I ₂ Ar _n clusters. Geminate recombination and cluster fragmentation. <i>Journal of Chemical Physics</i> , 1992 , 97, 6057-6063	3.9	45
256	Fluorescence decay dynamics of the halogens and interhalogens. <i>Chemical Society Reviews</i> , 1986 , 15, 405	58.5	45
255	Spectroscopy and dynamics of I ₂ (B) $\bar{\nu}$ le. <i>Journal of Chemical Physics</i> , 2001 , 115, 784-791	3.9	44

254	Thermochemical Properties (D degrees0 and IP) of the Lanthanide Monohalides. <i>Journal of Molecular Spectroscopy</i> , 1999 , 193, 285-292	1.3	44
253	Spectroscopy of the AlAr van der Waals complex: Rotationally resolved B $2\bar{\Sigma}^-X 2\bar{\Pi}/2$ electronic transitions. <i>Journal of Chemical Physics</i> , 1990 , 92, 2733-2739	3.9	44
252	Kinetics of excited states of Br2 using laser excitation. Part 1 .System description and rotationally-dependent lifetimes in Br2(B). <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1978 , 74, 1992-2013		44
251	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	1.3	43
250	Laser-induced fluorescence of the BO and BO2 free radicals. <i>Chemical Physics</i> , 1980 , 51, 299-309	2.3	43
249	Demonstration of a diode-pumped metastable Ar laser. <i>Optics Letters</i> , 2013 , 38, 5458-61	3	42
248	Production and characterization of temperature-controlled free radicals in a free jet expansion. <i>Chemical Physics Letters</i> , 1981 , 84, 1-5	2.5	41
247	Theoretical treatment of the spontaneous predissociation of Br2, B $3(\bar{D}u^+)$. <i>Journal of Chemical Physics</i> , 1982 , 76, 5341-5349	3.9	41
246	Electronic Spectroscopy of UO. <i>Journal of Molecular Spectroscopy</i> , 1997 , 185, 1-7	1.3	40
245	Spectroscopy and structure of the simplest actinide bonds. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10867-81	2.8	38
244	Electronic spectroscopy of UO2 isolated in a solid Ar matrix. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1812-5	16.4	37
243	Vibrational calculations and potential determination for ArOH* (v=0, 1) and ArOD* (v=0, 1). <i>Chemical Physics Letters</i> , 1992 , 189, 487-494	2.5	37
242	The ionization energy of Be2, and spectroscopic characterization of the (1)3Sigma ^{u+} , (2)3Pig, and (3)3Pig states. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4006-13	3.6	36
241	Spectroscopy and relaxation dynamics of metastable electronically excited states of iodine in rare gas matrices. <i>Chemical Physics</i> , 1991 , 151, 219-232	2.3	36
240	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	2	35
239	Spectroscopy and dynamics of hydride radical van der Waals complexes. <i>International Reviews in Physical Chemistry</i> , 2005 , 24, 375-420	7	35
238	Improved spectroscopic constants for I2 D $1\bar{\Pi}^+$. <i>Chemical Physics Letters</i> , 1995 , 239, 1-5	2.5	34
237	Direct-potential-fit analyses yield improved empirical potentials for the ground X (1)0+(g) state of Be2. <i>Journal of Chemical Physics</i> , 2014 , 140, 064315	3.9	33

236	Laser spectra of jet-cooled ions and ion clusters. <i>Journal of Chemical Physics</i> , 1982 , 76, 3831-3832	3.9	33
235	Evaluation of the exothermicity of the chemi-ionization reaction $\text{Sm} + \text{O} \rightarrow \text{jSmO}^+ + \text{e}^-$. <i>Journal of Chemical Physics</i> , 2015 , 142, 134307	3.9	32
234	Ionization energy measurements and electronic spectra for ThO. <i>Journal of Chemical Physics</i> , 2005 , 122, 204311	3.9	32
233	Ab initio theoretical studies on photodissociation of HNCO upon $\text{S}_1(1A?) \rightarrow \text{S}_0(1A?)$ excitation: The role of internal conversion and intersystem crossing. <i>Journal of Chemical Physics</i> , 1999 , 111, 5004-5016	3.9	32
232	Observation and analysis of the $\text{B} \rightarrow \text{A}$ transition of I ₂ in a free-jet expansion. <i>Journal of Molecular Spectroscopy</i> , 1991 , 149, 399-411	1.3	31
231	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	1.3	31
230	Electronic spectroscopy and energy transfer pathways of matrix isolated iodine. <i>Journal of Chemical Physics</i> , 1989 , 91, 674-682	3.9	31
229	The electronic spectrum of the Ar \cdots INOxy van der Waals complex. <i>Journal of Chemical Physics</i> , 1988 , 89, 2768-2774	3.9	30
228	Spectroscopic investigations of ThF and ThF ⁺ . <i>Journal of Chemical Physics</i> , 2012 , 136, 104305	3.9	29
227	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	1.7	29
226	Spectroscopy of the UO ²⁺ cation and the delayed ionization of UO ₂ . <i>Journal of Chemical Physics</i> , 2008 , 128, 084304	3.9	28
225	Rotationally resolved electronic spectra for uranium monoxide. <i>Chemical Physics Letters</i> , 1985 , 119, 229-233		28
224	Kinetics of optically pumped Ar metastables. <i>Optics Letters</i> , 2014 , 39, 6541-4	3	27
223	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		27
222	Kinetics of excited states of Br ₂ using laser excitation. Part 2. Radiative lifetime and collisional deactivation of the B ₃ (Π +u) state. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1980 , 76, 405-419		27
221	Spectroscopic characterization of Be(2) (Σ) X (2) Σ (u) (Σ) and the ionization energy of Be(2). <i>Journal of Chemical Physics</i> , 2010 , 133, 074309	3.9	26
220	Electronic spectroscopy and vibrational predissociation dynamics of OH \cdots r and OD \cdots r. <i>Journal of Chemical Physics</i> , 1992 , 97, 1655-1663	3.9	26
219	Demonstration of a CW diode-pumped Ar metastable laser operating at 4 W. <i>Optics Letters</i> , 2017 , 42, 4627-4630	3	25

218	On the dissociation of I ₂ by O ₂ (a ¹ Δ): Pathways involving the excited species I ₂ (A ³ Π ₂ , A ³ Π ₁), I ₂ (X ¹ Σ ⁺ , ⁺), and O ₂ (a ¹ Δ, ⁺). <i>Journal of Chemical Physics</i> , 2009 , 130, 104306	3.9	25
217	The permanent electric dipole moments and magnetic g factors of uranium monoxide. <i>Journal of Chemical Physics</i> , 2006 , 125, 204314	3.9	25
216	Chemical formation and spectroscopy of S ₂ in a free jet expansion. <i>Journal of Chemical Physics</i> , 1984 , 80, 51-56	3.9	25
215	Laser-induced fluorescence spectroscopy of ionic clusters between organic cations and inert gases. <i>Chemical Physics Letters</i> , 1984 , 104, 526-532	2.5	25
214	Spectroscopy and dynamics of the H ₂ ⋯N van der Waals complex. <i>Journal of Chemical Physics</i> , 1998 , 109, 5171-5174	3.9	24
213	Fluorescence depletion spectroscopy of the CH/D⋯e B ² Σ ⁺ transition. <i>Journal of Chemical Physics</i> , 1995 , 103, 7218-7227	3.9	24
212	Electronic spectroscopy and relaxation dynamics of OH⋯e and OD⋯e. <i>Journal of Chemical Physics</i> , 1992 , 96, 5020-5032	3.9	24
211	Potential surface and dissociation energies from high-resolution electronic spectroscopy of Ne⋯DH. <i>Chemical Physics Letters</i> , 1993 , 207, 62-68	2.5	24
210	The free jet cooled, laser induced fluorescence spectrum of sym-triazine. <i>Journal of Chemical Physics</i> , 1981 , 75, 5271-5279	3.9	24
209	Ion dissociation dynamics of the chlorine azide cation (ClN ₃ ⁺) investigated by velocity map imaging. <i>Journal of Chemical Physics</i> , 2003 , 118, 10485-10493	3.9	23
208	Rotation-Electronic Deperturbation Analysis of the 4f 6s Configurational States of CeO. <i>Journal of Molecular Spectroscopy</i> , 1995 , 170, 166-171	1.3	23
207	Observation and analysis of the CN⋯e B ² Σ ⁺ transition. <i>Journal of Chemical Physics</i> , 1991 , 94, 5765-5768	3.9	23
206	O ₂ (a ¹ Δ) quenching in the O/O ₂ /O ₃ system. <i>Chemical Physics Letters</i> , 2009 , 482, 56-61	2.5	22
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204	Fluorescence decay and non-radiative relaxation dynamics of the A ² Σ ⁺ states of OH-Ar and OD-Ar. <i>Chemical Physics Letters</i> , 1990 , 167, 597-601	2.5	22
203	Spectroscopy and nonadiabatic predissociation of CN⋯e. <i>Journal of Chemical Physics</i> , 1997 , 107, 7163-7173	3.9	21
202	The one-atom cage effect in I ₂ (B)⋯Ar: Evidence that caging is inefficient for the T-shaped isomer. <i>Journal of Chemical Physics</i> , 1999 , 111, 2478-2483	3.9	21
201	Laser spectroscopy of lead molecules produced by laser vaporization. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 2072-2075		21

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- 199 Role of $O_2(b)$ and $I_2(A', A)$ in Chemical Oxygen-Iodine Laser Dissociation Process. *AIAA Journal*, **2006**, 44, 1593-1600 2.1 20
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- 193 Laser Spectroscopy of GdO : Ligand Field Assignments of $4f^7(8S)6p \leftarrow 4f^7(8S)6s$ Transitions. *Journal of Molecular Spectroscopy*, **1994**, 165, 323-333 1.3 19
- 192 Laser excitation spectra for matrix isolated IF : Observation of new low-lying electronic states. *Journal of Chemical Physics*, **1987**, 87, 3304-3312 3.9 19
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- 189 Energy transfer rate constants for highly excited rovibrational levels of $I_2(X)$. *Journal of Chemical Physics*, **1993**, 99, 5654-5660 3.9 18
- 188 Laser-induced fluorescence of IBr : the $B_3(\Pi^+)$ excited state. *Journal of the Chemical Society, Faraday Transactions 2*, **1980**, 76, 49-66 18
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- 186 Spectroscopy, structure, and ionization energy of $BeOBe$. *Journal of Physical Chemistry A*, **2009**, 113, 13300-9 2.8 17
- 185 Communication: spectroscopic measurements for HfF^+ of relevance to the investigation of fundamental constants. *Journal of Chemical Physics*, **2011**, 134, 201102 3.9 17
- 184 Experimental detection and theoretical characterization of the H_2-NHX van der Waals complex. *Journal of Chemical Physics*, **2005**, 122, 144318 3.9 17
- 183 Laser Spectroscopy of ZrO : Accurate Term Energies for the Triplet States. *Journal of Molecular Spectroscopy*, **1995**, 174, 93-99 1.3 17

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181	Laser Absorption Spectroscopy of LaF: Analysis of the $B_1 \rightarrow B_2$ Transition. <i>Journal of Molecular Spectroscopy</i> , 1997 , 182, 50-56	1.3	16
180	Chemical oxygen-iodine laser (COIL) kinetics and mechanisms 2001 ,		16
179	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	3.9	16
178	Vibronic relaxation dynamics of CN in Ar matrices and clusters. <i>Chemical Physics</i> , 1994 , 189, 235-243	2.3	16
177	Spectroscopy of metastable species in a free-jet expansion: the $\pi \rightarrow \sigma^*$ transition in IBr. <i>Canadian Journal of Physics</i> , 1994 , 72, 1294-1306	1.1	16
176	Laser Spectroscopy of YF: Linkage of the Singlet and Triplet State Manifolds. <i>Journal of Molecular Spectroscopy</i> , 1995 , 169, 253-267	1.3	16
175	Laser Spectroscopy of HfO: Linkage of the Singlet and Triplet State Manifolds. <i>Journal of Molecular Spectroscopy</i> , 1995 , 173, 37-43	1.3	16
174	Ionization energy measurements and spectroscopy of HfO and HfO ⁺ . <i>Journal of Chemical Physics</i> , 2009 , 130, 144503	3.9	15
173	Experimental and theoretical studies of the CN-Ar van der Waals complex. <i>Journal of Chemical Physics</i> , 2008 , 128, 104308	3.9	15
172	Autodetachment spectroscopy of the aluminum oxide anion dipole bound state. <i>Journal of Chemical Physics</i> , 2015 , 143, 114311	3.9	14
171	Experimental and theoretical study of the electronic spectrum of BeAl. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5403-11	3.6	14
170	Spectroscopic characterization of the C ₂ -Ne van der Waals complex. <i>Journal of Chemical Physics</i> , 2006 , 124, 054314	3.9	14
169	Laser Absorption Spectroscopy of LaF ⁺ : Ligand Field Assignment of States in the Range 0.4 eV. <i>Journal of Molecular Spectroscopy</i> , 1996 , 179, 246-252	1.3	14
168	Interpretation of the spontaneous predissociation of Cl ₂ [B ₃ (D+u)]. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1982 , 78, 1339-1344		14
167	Pulsed-field ionization zero electron kinetic energy spectrum of the ground electronic state of BeOBe ⁺ . <i>Journal of Chemical Physics</i> , 2011 , 134, 044306	3.9	13
166	Experimental and theoretical studies of the electronic transitions of BeC. <i>Journal of Chemical Physics</i> , 2012 , 137, 214313	3.9	13
165	Quenching of I(2P _{1/2}) by O ₃ and O(3P). <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3010-5	2.8	13

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163	State-to-state rotational relaxation rate constants for CO+Ne from IR-IR double-resonance experiments: comparing theory to experiment. <i>Journal of Chemical Physics</i> , 2004 , 120, 7483-9	3.9	13
162	Measurement of the rate constant for the quenching of I(2P1/2) by O2(X) at 150 K. <i>Chemical Physics Letters</i> , 1996 , 260, 201-207	2.5	13
161	Nonadiabatic predissociation of CN(A 2 Π) _{v=1} . <i>Journal of Chemical Physics</i> , 1993 , 98, 753-756	3.9	13
160	Observation and analysis of the D \rightarrow A \rightarrow transition of I2 in a free-jet expansion. <i>Chemical Physics Letters</i> , 1991 , 176, 373-378	2.5	13
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158	Bound states and scattering resonances of OH(A)-He. <i>Journal of Chemical Physics</i> , 2005 , 123, 64307	3.9	12
157	Comparison of direct and resonant scattering for H2+CN(A 2 Π) Collisional energy transfer versus predissociation of CN(A) \cdots H2 complexes. <i>Journal of Chemical Physics</i> , 2000 , 112, 7416-7424	3.9	12
156	Observation of a new electronic transition of C2. <i>Journal of Chemical Physics</i> , 1987 , 87, 4235-4236	3.9	12
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- 130 Cavity ring-down spectroscopy of the phenyl radical in a pulsed discharge supersonic jet expansion. *Chemical Physics Letters*, **2011**, 507, 216-220 2.5 9
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