

Amanda J Ross

List of Publications by Year in descending order

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88
papers

1,760
citations

279798

23
h-index

330143

37
g-index

89
all docs

89
docs citations

89
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate analytic potentials for $\text{Li}_2(X^1\Sigma^+g)$ and $\text{Li}_2(A^1\Sigma^+u)$ from 2 to 90 Å., and the radiative lifetime of $\text{Li}(2p)$. <i>Journal of Chemical Physics</i> , 2009, 131, 204309.	3.0	102
2	Long-range potentials for the $X^1\Sigma^+g$ and $A^1\Sigma^+u$ states of the NaK molecule. <i>Molecular Physics</i> , 1985, 56, 903-912.	1.7	96
3	A molecular iodine atlas in ascii format. <i>Journal of Molecular Spectroscopy</i> , 2005, 233, 157-159.	1.2	78
4	The High-Lying Vibrational Levels and Dissociation Energy of the $a^3\Sigma^+u$ State of 7Li_2 . <i>Journal of Molecular Spectroscopy</i> , 1999, 196, 20-28.	1.2	62
5	Laser-induced fluorescence spectra of Na_2 : the $(3s, 3p)^1\Sigma^+g$, $(3s, 3p)^1\Sigma^+g$ and $(3s, 4s)^1\Sigma^+g$ states. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1984, 17, 1515-1523.	1.6	51
6	Spin-orbit interactions, new spectral data, and deperturbation of the coupled $b^1\Sigma^+g$ and $A^1\Sigma^+u$ states of K_2 . <i>Journal of Chemical Physics</i> , 2002, 117, 11208-11215.	3.0	51
7	Laser-induced fluorescence of NaK: the $b(1)^3\Sigma^+$ state. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1986, 19, 1449-1456.	1.6	47
8	Electronic structure of the lowest $1^3\Sigma^+g$, $1^3\Sigma^+u$, $1^3\Sigma^+g$, $1^3\Sigma^+u$, $1^3\Pi^+g$ and $1^3\Pi^+u$ states of K_2 from valence CI calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, 1473-1487.	1.5	46
9	The ground state of KRb from laser-induced fluorescence. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, L247-L251.	1.5	44
10	Spectroscopic observations, spin-orbit functions, and coupled-channel deperturbation analysis of data on the $A^1\Sigma^+u$ state of Na_2 . <i>Physical Review A</i> , 2009, 80, .	2.5	44
11	The $A(2)^1\Sigma^+$ state of NaK. <i>Journal of Molecular Spectroscopy</i> , 1988, 127, 546-548.	1.2	43
12	A full analytic potential energy curve for the $a^1\Sigma^+g$ state of KLi from a limited vibrational data set. <i>Journal of Chemical Physics</i> , 2007, 126, 194313.	3.0	42
13	Observation and Analysis of the $A^1\Sigma^+u$ State of 6Li_2 from $v=0$ to the Dissociation Limit. <i>Journal of Molecular Spectroscopy</i> , 1996, 175, 340-353.	1.2	41
14	An improved potential energy curve for the ground state of NaK. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 2753-2762.	1.5	41
15	Interactions between the $A(1)^1\Sigma^+u$ and $b(1)^3\Sigma^+$ states of K_2 . <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, 6225-6231.	1.6	40
16	New spectroscopic data, spin-orbit functions, and global analysis of data on the $A^1\Sigma^+u$ and $b^1\Sigma^+$ states of Na_2 . <i>Journal of Chemical Physics</i> , 2007, 127, 044301.	3.0	39
17	The Ground State of the CuCl_2 Molecule from Laser-Induced Fluorescence. <i>Journal of Molecular Spectroscopy</i> , 1993, 158, 27-39.	1.2	36
18	Low-Lying Electronic States of the ScF Molecule: Energies of the $a^3\Pi^+$, $b^3\Sigma^+$, and $A^1\Pi^+$ States. <i>Journal of Molecular Spectroscopy</i> , 1993, 162, 327-334.	1.2	34

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19	The ground state, $X^1\Sigma_g^+$, of the potassium dimer. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, L145-L148.	1.6	33
20	Fourier transform spectroscopy and extended deperturbation treatment of the spin-orbit-coupled $X^1\Sigma_g^+$ state of the Li_2 molecule. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3047-3055.	1.6	23
21	Laser-Induced Fluorescence from CuCl_2 in a Free-Jet Expansion: High-Resolution Fourier Transform Spectra. Journal of Molecular Spectroscopy, 1996, 177, 134-142.	1.2	29
22	Born-Oppenheimer breakdown in a combined-isotopomer analysis of the $X^1\Sigma_g^+$ system of Li_2 . Journal of Chemical Physics, 2002, 117, 9339-9346.	3.0	29
23	On the $X^1\Sigma_g^+$ state of KLi . Journal of Chemical Physics, 2001, 115, 4118-4124.	3.0	28
24	Laser-induced fluorescence and two-photon ionisation spectroscopy of the $C(3)^1\Sigma_g^+$ state of the NaK molecule. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3047-3055.	1.6	23
25	Fermi resonance in the overtone spectra of the CH chromophore in bromoform. Chemical Physics Letters, 1989, 156, 455-462.	2.6	22
26	Fourier transform diagnostics of gaseous species during microwave assisted diamond deposition. Applied Physics Letters, 1993, 62, 134-136.	3.3	21
27	General analytical form for the long-range potential of the $(ns+np)0u$ states of alkali dimers applied to Li_2 . Physical Review A, 1997, 55, 3458-3464.	2.5	21
28	The molecular constants and potential energy curve of the $D^1\Sigma$ state in KLi . Chemical Physics Letters, 2003, 372, 173-178.	2.6	21
29	A full description of the potential curve of the $B^1\Sigma_u$ state of 7Li_2 . Journal of Chemical Physics, 2001, 114, 8445-8458.	3.0	20
30	Fourier Transform Spectra of Laser-Induced Fluorescence in the $2^1\Sigma_g^+$ (2^1g) Transition of $^{63}\text{Cu}^{37}\text{Cl}_2$: Renner-Teller and K-Doubling Interactions in the X^1f ($0\ 2\ 0$) Rovibronic Levels. Journal of Molecular Spectroscopy, 1995, 172, 43-56.	1.2	19
31	Fourier-transform lidar. Optics Letters, 1995, 20, 2140.	3.3	19
32	Room-Temperature Metal-Hydride Discharge Source, with Observations on NiH and FeH . Journal of Physical Chemistry A, 2009, 113, 13159-13166.	2.5	19
33	The rotational structure of the ν_4 -band of CH_3ClF_2 . Molecular Physics, 1989, 66, 1273-1277.	1.7	18
34	The A^2E System of CaOCH_3 . Journal of Molecular Spectroscopy, 2002, 213, 28-34.	1.2	18
35	High-lying electronic states of the rubidium dimer: <i>ab initio</i> predictions and experimental observation of the $5^1\Sigma_u^+$ and $5^1\Sigma_g^+$ states of Rb_2 by polarization labelling spectroscopy. Journal of Chemical Physics, 2015, 143, 044308.	3.0	18
36	Fourier transform spectroscopy of the $13^1g-b^3\Sigma_u$ transition in 6Li_2 . Journal of Molecular Spectroscopy, 1992, 151, 159-177.	1.2	17

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37	Fast-ion-beam laser spectroscopy of CO ₂ ⁺ : Laser-induced fluorescence of the $\tilde{X}^1\Sigma_g^+$ electronic transition. <i>Physical Review A</i> , 1993, 48, 471-478.	2.5	17
38	Comparison of emission spectra of CuCl ₂ obtained via energy transfer from O ₂ (1^1g) with laser-induced fluorescence spectra. <i>Chemical Physics Letters</i> , 1991, 184, 133-140.	2.6	16
39	Study of isotope effects in the ground state of the symmetrical isotopomers of CuCl ₂ . <i>Chemical Physics</i> , 1993, 178, 505-514.	1.9	16
40	On the Geometry of the CuCl ₂ Molecule. <i>Inorganic Chemistry</i> , 1997, 36, 3207-3208.	4.0	16
41	On the $5d1^1g^+ 21^1g$ and $5d1^1g^+ C1^1u$ Fluorescence in ⁷ Li ₂ . <i>Journal of Molecular Spectroscopy</i> , 1998, 191, 28-31.	1.2	16
42	Fourier Transform Spectra of the $E2^1u^+ X2^1g(3/2)$ System of CuCl ₂ . <i>Journal of Molecular Spectroscopy</i> , 2000, 202, 253-261.	1.2	15
43	Isotope effects and Born-Oppenheimer breakdown in excited singlet states of the lithium dimer. <i>Journal of Chemical Physics</i> , 2004, 121, 6309-6316.	3.0	15
44	Potential energy curves for the X ⁰⁺ and A ⁰⁺ states of BiF. <i>Chemical Physics Letters</i> , 1990, 166, 539-546.	2.6	14
45	The $23^1g^+ b3^1u$ and $13^1g^+ b3^1u$ Transitions in ⁷ Li ₂ : Analysis of the $b3^1u$ State for $v=0$. <i>Journal of Molecular Spectroscopy</i> , 1997, 184, 129-139.	1.2	14
46	Photoassociation of ultracold K atoms: Observation of high lying levels of the $1g^+ 1/4 1^1g$ molecular state of K ₂ . <i>Journal of Chemical Physics</i> , 2003, 118, 7837-7845.	3.0	14
47	On the state of NaK. <i>Journal of Molecular Spectroscopy</i> , 2004, 226, 95-102.	1.2	14
48	Investigation of the D 1^1g state of NaK by polarisation labelling spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2008, 250, 27-32.	1.2	14
49	The Meinel system (A $2\Pi(i)-X 2\Sigma(+) $) of (N-14) ₂ (+), (N-14)(N-15) ⁺ , and (N-15) ₂ (+). <i>Astrophysical Journal</i> , 1993, 413, 829.	4.5	14
50	The electronic transition dipole moment of the B ⁰⁺ \rightarrow X ⁰⁺ transition in iodine. <i>Journal of Chemical Physics</i> , 1994, 100, 8780-8783.	3.0	13
51	Laser induced fluorescence spectroscopy of ¹⁴² NdO. <i>Journal of Molecular Spectroscopy</i> , 2004, 225, 132-144.	1.2	13
52	Electronic states of Bi ₂ . <i>Molecular Physics</i> , 1996, 87, 725-733.	1.7	12
53	The (1) 1^1g state of ³⁹ K ₂ revisited. <i>Journal of Chemical Physics</i> , 1998, 109, 2717-2726.	3.0	12
54	Experimental and theoretical studies of the coupled $A^1\Sigma_g^+$ and $b^1\Sigma_g^+$ states of ³⁹ K ₂ . <i>Journal of Chemical Physics</i> , 1998, 109, 2727-2736.	1.2	12

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55	The (2p, 2p) $11\hat{p}^g$ State of $6\text{Li}2$: Fourier Transform Spectrum of the $11\hat{p}^g$ - $B1\hat{u}$ Transition. <i>Journal of Molecular Spectroscopy</i> , 1993, 158, 445-454.	1.2	11
56	The C \hat{a}^+ B(0-0) Band of Four Isotopes of Carbon Monoxide. <i>Journal of Molecular Spectroscopy</i> , 1993, 162, 353-357.	1.2	11
57	Geometry of the CaOCH_3 radical from isotope effects in the transition. <i>Journal of Molecular Spectroscopy</i> , 2005, 229, 224-230.	1.2	11
58	Analysis of the long range potentials of the X $1\hat{\Sigma}^+$ and a $3\hat{\Sigma}^+$ states of NaK. <i>Chemical Physics Letters</i> , 1986, 132, 44-49.	2.6	9
59	Electronic states of the Bi_2 molecule. <i>Chemical Physics Letters</i> , 1993, 214, 293-296.	2.6	9
60	Laser induced fluorescence and high resolution Fourier transform spectrometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1995, 51, 1191-1215.	3.9	9
61	LABORATORY MEASUREMENTS OF NiH BY FOURIER TRANSFORM DISPERSED FLUORESCENCE. <i>Astrophysical Journal</i> , 2009, 696, 172-175.	4.5	9
62	Time-resolved high resolution Fourier transform spectroscopy with pulsed laser induced fluorescences. <i>Optics Communications</i> , 1991, 83, 43-48.	2.1	8
63	Resolved fluorescence spectra of NiH. Electronic structure, electronic energy transfer, and the Zeeman effect in low-lying states. <i>Molecular Physics</i> , 2012, 110, 2019-2033.	1.7	8
64	Interaction of Metastable Oxygen with Several Metals and Its Potentiality as a Visible Chemical Laser. <i>Europhysics Letters</i> , 1990, 12, 569-574.	2.0	7
65	Spectroscopy of ^{142}NdO : New results. <i>Journal of Molecular Spectroscopy</i> , 2005, 231, 154-164.	1.2	7
66	Zeeman spectroscopy of NiH: Landé factors of three $\hat{I}^{\circ}=3/2$ excited electronic states. <i>Journal of Molecular Spectroscopy</i> , 2013, 292, 28-34.	1.2	7
67	Observation of the $5p\ 1\hat{u}$ Rydberg state of $7\text{Li}2$. <i>Journal of Molecular Spectroscopy</i> , 2004, 227, 158-161.	1.2	6
68	Determination of Landé factors in the F $4\hat{p}^n\ 5/2, 7/2$ state of ^{56}FeH by laser excitation spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2014, 303, 46-53.	1.2	6
69	On the spin-orbit splitting of CuCl_2 in its \hat{g}^2 ground state. <i>Journal of Chemical Physics</i> , 2007, 127, 024309.	3.0	5
70	Laboratory determination of Landé factors for the molecular radical FeH. <i>EAS Publications Series</i> , 2012, 58, 63-67.	0.3	5
71	High resolution Fourier transform spectroscopy with pulsed laser induced fluorescences. <i>Optics Communications</i> , 1991, 81, 179-185.	2.1	4
72	Fourier transform spectra of laser-induced fluorescence. <i>Molecular Physics</i> , 2007, 105, 627-637.	1.7	4

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73	Second-harmonic generation in a microradius LiNbO ₃ cylinder with a quasi-elliptical cross section. Optics Letters, 1999, 24, 394.	3.3	3
74	Isotope shifts in the [10.1]4s ² 4p ⁴ (0 ⁺) and [10.5]3s ² 4p ⁴ (0 ⁺) transitions of NdO. This article is part of a Special Issue on Spectroscopy at the University of New Brunswick in honour of Colan Linton and Ron Lees.. Canadian Journal of Physics, 2009, 87, 537-541.	1.1	3
75	On the 2 1 ^g state of the rubidium dimer. Journal of Molecular Spectroscopy, 2014, 299, 25-30.	1.2	3
76	The (3) 1 ^g state of Na ₂ . Journal of Molecular Spectroscopy, 1992, 154, 451-452.	1.2	2
77	On the (2) 1 ^g state of 39K ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 4039-4050.	1.5	2
78	A build-up cavity for Fourier transform emission experiments. Journal of Molecular Spectroscopy, 2005, 232, 14-25.	1.2	2
79	Isotopic study of the transition of calcium monomethoxide using laser excitation and population depletion spectroscopy. Journal of Molecular Spectroscopy, 2008, 250, 98-105.	1.2	2
80	Efficient long-range collisional energy transfer between the E0g+(3P2) and D0u+(3P2) ion-pair states of I ₂ , induced by H ₂ O, observed using high-resolution Fourier transform emission spectroscopy. Journal of Chemical Physics, 2011, 135, 114302.	3.0	2
81	A CRDS sputter-source experiment to study MH radicals: application to NiH and NiD. Molecular Physics, 2016, 114, 2777-2787.	1.7	1
82	Fluorescence Laser Intracavit� : le spectre �lectronique de NiH. European Physical Journal Special Topics, 2006, 135, 291-292.	0.2	0
83	Fluorescence laser intracavit� analys�e par TF : d�tection des transitions �lectroniques faibles. European Physical Journal Special Topics, 2006, 135, 289-290.	0.2	0
84	HIGH RESOLUTION FOURIER TRANSFORM SPECTROSCOPY OF LASER INDUCED FLUORESCENCE IN THE LITHIUM DIMER. European Physical Journal Special Topics, 1991, 01, C7-505-C7-508.	0.2	0
85	USE OF AN ALIASING ARTEFACT IN FT SPECTROMETRY TO DISTINGUISH BETWEEN PULSED AND CONTINUOUS EMISSIONS OCCURING IN THE SAME SOURCE. European Physical Journal Special Topics, 1991, 01, C7-551-C7-554.	0.2	0
86	HIGH SPECTRAL AND TEMPORAL RESOLUTION OF PULSED EMISSIONS BY FOURIER TRANSFORM SPECTROMETRY. European Physical Journal Special Topics, 1991, 01, C7-459-C7-462.	0.2	0
87	Observation of quasibound energy levels in the [MATH] state of Li^7Li^2 . European Physical Journal Special Topics, 1994, 04, C4-701-C4-704.	0.2	0
88	Data associated with a tellurium absorption atlas 19,000 - 24,000 cm ⁻¹ . Data in Brief, 2022, 42, 108038.	1.0	0