

Amanda J Ross

List of Publications by Year in descending order

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88
papers

1,760
citations

279798

23
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330143

37
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89
all docs

89
docs citations

89
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Data associated with a tellurium absorption atlas 19,000 $\hat{\epsilon}$ 24,000 cm^{-1} . Data in Brief, 2022, 42, 108038.	1.0	0
2	A CRDS sputter-source experiment to study MH radicals: application to NiH and NiD. Molecular Physics, 2016, 114, 2777-2787.	1.7	1
3	High-lying electronic states of the rubidium dimer $\hat{\epsilon}$ Ab initio predictions and experimental observation of the $51\hat{\epsilon}u+$ and $51\hat{\epsilon}i$ states of Rb ₂ by polarization labelling spectroscopy. Journal of Chemical Physics, 2015, 143, 044308.	3.0	12
4	High-lying electronic states of the rubidium dimer $\hat{\epsilon}$ Ab initio predictions and experimental observation of the $51\hat{\epsilon}u+$ and $51\hat{\epsilon}i$ states of Rb ₂ by polarization labelling spectroscopy. Journal of Chemical Physics, 2015, 143, 044308.	3.0	18
5	On the $2\hat{\epsilon}g$ state of the rubidium dimer. Journal of Molecular Spectroscopy, 2014, 299, 25-30.	1.2	3
6	Determination of Landé factors in the $F\hat{\epsilon} 5/2, 7/2$ state of 56FeH by laser excitation spectroscopy. Journal of Molecular Spectroscopy, 2014, 303, 46-53.	1.2	6
7	Zeeman spectroscopy of NiH: Landé factors of three $\hat{\epsilon}=3/2$ excited electronic states. Journal of Molecular Spectroscopy, 2013, 292, 28-34.	1.2	34
8	Zeeman spectroscopy of NiH: Landé factors of three $\hat{\epsilon}=3/2$ excited electronic states. Journal of Molecular Spectroscopy, 2013, 292, 28-34.	1.2	7
9	Laboratory determination of Landé factors for the molecular radical FeH. EAS Publications Series, 2012, 58, 63-67.	0.3	5
10	Resolved fluorescence spectra of NiH. Electronic structure, electronic energy transfer, and the Zeeman effect in low-lying states. Molecular Physics, 2012, 110, 2019-2033.	1.7	8
11	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
12	LABORATORY MEASUREMENTS OF NiH BY FOURIER TRANSFORM DISPERSED FLUORESCENCE. Astrophysical Journal, 2009, 696, 172-175.	4.5	9
13	Room-Temperature Metal-Hydride Discharge Source, with Observations on NiH and FeH. Journal of Physical Chemistry A, 2009, 113, 13159-13166.	2.5	44
14	Room-Temperature Metal-Hydride Discharge Source, with Observations on NiH and FeH. Journal of Physical Chemistry A, 2009, 113, 13159-13166.	2.5	19
15	Accurate analytic potentials for $\text{Li}_2(\hat{\epsilon}1g+)$ and $\text{Li}_2(\hat{\epsilon}1u+)$ from 2 to 90 $\hat{\epsilon}$., and the radiative lifetime of $\text{Li}(2p)$. Journal of Chemical Physics, 2009, 131, 204309.	3.0	102
16	Isotope shifts in the $[10.1]4\hat{\epsilon}X<i>4(0\hat{\epsilon}0)$ and $[10.5]3\hat{\epsilon}X<i>4(0\hat{\epsilon}0)$ 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
17	Investigation of the $D\hat{\epsilon}1$ state of NaK by polarisation labelling spectroscopy. Journal of Molecular Spectroscopy, 2008, 250, 27-32.	1.2	14
18	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

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19	A full analytic potential energy curve for the $\hat{a}^1\Sigma^+$ state of KLi from a limited vibrational data set. Journal of Chemical Physics, 2007, 126, 194313.	3.0	42
20	New spectroscopic data, spin-orbit functions, and global analysis of data on the $\hat{A}^1\Sigma^+$ and $\hat{b}^1\Sigma^+$ states of Na ₂ . Journal of Chemical Physics, 2007, 127, 044301.	3.0	39
21	Fourier transform spectra of laser-induced fluorescence. Molecular Physics, 2007, 105, 627-637.	1.7	4
22	On the spin-orbit splitting of CuCl ₂ in its \hat{g}^2 ground state. Journal of Chemical Physics, 2007, 127, 024309.	3.0	5
23	Fluorescence Laser IntracavitÃ© : le spectre Ã©lectronique de NiH. European Physical Journal Special Topics, 2006, 135, 291-292.	0.2	0
24	Fluorescence laser intracavitÃ© analysÃ©e par TF : dÃ©tection des transitions Ã©lectroniques faibles. European Physical Journal Special Topics, 2006, 135, 289-290.	0.2	0
25	Geometry of the CaOCH ₃ radical from isotope effects in the transition. Journal of Molecular Spectroscopy, 2005, 229, 224-230.	1.2	11
26	A molecular iodine atlas in ascii format. Journal of Molecular Spectroscopy, 2005, 233, 157-159.	1.2	78
27	Spectroscopy of ¹⁴² NdO: New results. Journal of Molecular Spectroscopy, 2005, 231, 154-164.	1.2	7
28	A build-up cavity for Fourier transform emission experiments. Journal of Molecular Spectroscopy, 2005, 232, 14-25.	1.2	2
29	Isotope effects and Born-Oppenheimer breakdown in excited singlet states of the lithium dimer. Journal of Chemical Physics, 2004, 121, 6309-6316.	3.0	15
30	Laser induced fluorescence spectroscopy of ¹⁴² NdO. Journal of Molecular Spectroscopy, 2004, 225, 132-144.	1.2	13
31	On the state of NaK. Journal of Molecular Spectroscopy, 2004, 226, 95-102.	1.2	14
32	Observation of the 5p $1^1\Sigma^+$ Rydberg state of 7Li ₂ . Journal of Molecular Spectroscopy, 2004, 227, 158-161.	1.2	6
33	The molecular constants and potential energy curve of the D $1^1\Sigma^+$ state in KLi. Chemical Physics Letters, 2003, 372, 173-178.	2.6	21
34	Photoassociation of ultracold K atoms: Observation of high lying levels of the $1g^1\Sigma^+$ molecular state of K ₂ . Journal of Chemical Physics, 2003, 118, 7837-7845.	3.0	14
35	Born-Oppenheimer breakdown in a combined-isotopomer analysis of the $\hat{A}^1\Sigma^+$ and $\hat{X}^1\Sigma^+$ system of Li ₂ . Journal of Chemical Physics, 2002, 117, 9339-9346.	3.0	29
36	Spin-orbit interactions, new spectral data, and deperturbation of the coupled $\hat{b}^1\Sigma^+$ and $\hat{A}^1\Sigma^+$ states of K ₂ . Journal of Chemical Physics, 2002, 117, 11208-11215.	3.0	51

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37	The A ² E ⁻ X ² A ¹ System of CaOCH ₃ . Journal of Molecular Spectroscopy, 2002, 213, 28-34.	1.2	18
38	A full description of the potential curve of the B ¹ Σ ⁺ state of 7Li ₂ . Journal of Chemical Physics, 2001, 114, 8445-8458.	3.0	20
39	On the X ¹ Σ ⁺ state of KLi. Journal of Chemical Physics, 2001, 115, 4118-4124.	3.0	28
40	Fourier Transform Spectra of the E ² Σ ⁻ X ² g(3/2) System of CuCl ₂ . Journal of Molecular Spectroscopy, 2000, 202, 253-261.	1.2	15
41	An improved potential energy curve for the ground state of NaK. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 2753-2762.	1.5	41
42	On the (2)1Σ ^{g+} state of 39K ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 4039-4050.	1.5	2
43	The High-Lying Vibrational Levels and Dissociation Energy of the a ³ Σ ⁺ State of 7Li ₂ . Journal of Molecular Spectroscopy, 1999, 196, 20-28.	1.2	62
44	Second-harmonic generation in a microradius LiNbO ₃ cylinder with a quasi-elliptical cross section. Optics Letters, 1999, 24, 394.	3.3	3
45	On the 5d1 ^g 21 ^Σ + and 5d1 ^g C1 ^u Fluorescence in 7Li ₂ . Journal of Molecular Spectroscopy, 1998, 191, 28-31.2	1.2	16
46	The (1)1 ^g state of 39K ₂ revisited. Journal of Chemical Physics, 1998, 109, 2717-2726.	3.0	12
47	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
48	On the Geometry of the CuCl ₂ Molecule. Inorganic Chemistry, 1997, 36, 3207-3208.	4.0	16
49	The 23 ^g b ³ and 13 ^g b ³ Transitions in 7Li ₂ : Analysis of the b ³ State for v= 0. Journal of Molecular Spectroscopy, 1997, 184, 129-139.	1.2	14
50	Electronic states of Bi ₂ . Molecular Physics, 1996, 87, 725-733.	1.7	12
51	Observation and Analysis of the A ¹ State of 6Li ₂ from v= 0 to the Dissociation Limit. Journal of Molecular Spectroscopy, 1996, 175, 340-353.	1.2	41
52	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
53	Fourier Transform Spectra of Laser-Induced Fluorescence in the 2 ^u -X ¹ f (2 ^g) Transition of 63Cu37Cl ₂ : Renner-Teller and K-Doubling Interactions in the X ¹ f (0 2l 0) Rovibronic Levels. Journal of Molecular Spectroscopy, 1995, 172, 43-56.	1.2	19
54	Laser induced fluorescence and high resolution Fourier transform spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1995, 51, 1191-1215.	3.9	9

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55	Fourier-transform lidar. <i>Optics Letters</i> , 1995, 20, 2140.	3.3	19
56	The electronic transition dipole moment of the $B^0 + u^{\hat{+}}X^0 + g$ transition in iodine. <i>Journal of Chemical Physics</i> , 1994, 100, 8780-8783.	3.0	13
57	Observation of quasibound energy levels in the $[MATH]$ state of $\langle \sup \rangle 7 \langle /sup \rangle Li \langle sub \rangle 2 \langle /sub \rangle$. <i>European Physical Journal Special Topics</i> , 1994, 04, C4-701-C4-704.	0.2	0
58	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
59	The $(2p, 2p) 11^{\hat{+}}g$ State of $6Li_2$: Fourier Transform Spectrum of the $11^{\hat{+}}g-B1^{\hat{+}}u$ Transition. <i>Journal of Molecular Spectroscopy</i> , 1993, 158, 445-454.	1.2	11
60	Low-Lying Electronic States of the ScF Molecule: Energies of the $a3^{\hat{+}}$, $b3^{\hat{+}}$, and $A1^{\hat{+}}$ States. <i>Journal of Molecular Spectroscopy</i> , 1993, 162, 327-334.	1.2	34
61	The $C^{\hat{+}}B(0-0)$ Band of Four Isotopes of Carbon Monoxide. <i>Journal of Molecular Spectroscopy</i> , 1993, 162, 353-357.	1.2	11
62	Electronic states of the Bi_2 molecule. <i>Chemical Physics Letters</i> , 1993, 214, 293-296.	2.6	9
63	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
64	Fast-ion-beam laser spectroscopy of CO_2^+ : Laser-induced fluorescence of the $A^{\hat{+}}f^{\hat{+}}u2^{\hat{+}}X^{\hat{+}}f^{\hat{+}}g2$ electronic transition. <i>Physical Review A</i> , 1993, 48, 471-478.	2.5	17
65	Fourier transform diagnostics of gaseous species during microwave assisted diamond deposition. <i>Applied Physics Letters</i> , 1993, 62, 134-136.	3.3	21
66	The Meinel system ($A^2Pi(i)-X^2Sigma(+)$) of $(N-14)_2(+)$, $(N-14)(N-15)+$, and $(N-15)_2(+)$. <i>Astrophysical Journal</i> , 1993, 413, 829.	4.5	14
67	Fourier transform spectroscopy of the $13^{\hat{+}}g-b3^{\hat{+}}u$ transition in $6Li_2$. <i>Journal of Molecular Spectroscopy</i> , 1992, 151, 159-177.	1.2	17
68	The $(3) 1^{\hat{+}}g$ state of Na_2 . <i>Journal of Molecular Spectroscopy</i> , 1992, 154, 451-452.	1.2	2
69	Time-resolved high resolution Fourier transform spectroscopy with pulsed laser induced fluorescences. <i>Optics Communications</i> , 1991, 83, 43-48.	2.1	8
70	High resolution Fourier transform spectroscopy with pulsed laser induced fluorescences. <i>Optics Communications</i> , 1991, 81, 179-185.	2.1	4
71	Comparison of emission spectra of $CuCl_2$ obtained via energy transfer from $O_2(1^{\hat{+}}g)$ with laser-induced fluorescence spectra. <i>Chemical Physics Letters</i> , 1991, 184, 133-140.	2.6	16
72	HIGH RESOLUTION FOURIER TRANSFORM SPECTROSCOPY OF LASER INDUCED FLUORESCENCE IN THE LITHIUM DIMER. <i>European Physical Journal Special Topics</i> , 1991, 01, C7-505-C7-508.	0.2	0

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73	USE OF AN ALIASING ARTEFACT IN FT SPECTROMETRY TO DISTINGUISH BETWEEN PULSED AND CONTINUOUS EMISSIONS OCCURRING IN THE SAME SOURCE. European Physical Journal Special Topics, 1991, 01, C7-551-C7-554.	0.2	0
74	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
75	Potential energy curves for the X0+ and A0+ states of BiF. Chemical Physics Letters, 1990, 166, 539-546.	2.6	14
76	Interaction of Metastable Oxygen with Several Metals and Its Potentiality as a Visible Chemical Laser. Europhysics Letters, 1990, 12, 569-574.	2.0	7
77	The ground state of KRb from laser-induced fluorescence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L247-L251.	1.5	44
78	Fermi resonance in the overtone spectra of the CH chromophore in bromoform. Chemical Physics Letters, 1989, 156, 455-462.	2.6	22
79	The rotational structure of the ν_4 -band of CH ₃ ClF ₂ . Molecular Physics, 1989, 66, 1273-1277.	1.7	18
80	The A(2)1 Σ^+ state of NaK. Journal of Molecular Spectroscopy, 1988, 127, 546-548.	1.2	43
81	Electronic structure of the lowest 1,3 Σ^+g , 1,3 Σ^+u , 1,3 Π_g , 1,3 Π_u , 1,3 Π^+g and 1,3 Π^+u states of K ₂ from valence CI calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 1473-1487.	1.5	46
82	Laser-induced fluorescence and two-photon ionisation spectroscopy of the C(3)1 Σ^+ state of the NaK molecule. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3047-3055.	1.6	23
83	Interactions between the A(1)1 Σ^+u and b(1)3 Π_u states of K ₂ . Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 6225-6231.	1.6	40
84	Analysis of the long range potentials of the X 1 Σ^+ and a 3 Σ^+ states of NaK. Chemical Physics Letters, 1986, 132, 44-49.	2.6	9
85	Laser-induced fluorescence of NaK: the b(1)3 Π state. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 1449-1456.	1.6	47
86	The ground state, X1 Σ^+g , of the potassium dimer. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, L145-L148.	1.6	33
87	Long-range potentials for the X1 Σ^+ and a3 Σ^+ states of the NaK molecule. Molecular Physics, 1985, 56, 903-912.	1.7	96
88	Laser-induced fluorescence spectra of Na ₂ : the (3s, 3p)1 Σ^+g , (3s, 3p)1 Π_g and (3s, 4s)1 Σ^+g states. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 1515-1523.	1.6	51