

# Maris Tamanis

## List of Publications by Year in descending order

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84  
papers

1,578  
citations

279487

23  
h-index

360668

35  
g-index

84  
all docs

84  
docs citations

84  
times ranked

444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation and modeling of bound-free transitions to the $X\ 1\ ^1\Sigma^+$ and $a\ 3\ ^1\Sigma^+$ states of KCs. Journal of Chemical Physics, 2022, 156, 114305.	1.2	3
2	The $a\ 3\ ^1\Sigma^+$ state of KCs revisited: Hyperfine structure analysis and potential refinement. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 262, 106124.	1.1	1
3	Fourier-transform spectroscopy, direct potential fit, and electronic structure calculation on the $c\ 3\ ^1\Sigma^+$ state of KCs. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107902.	1.1	1
4	The branching ratio of intercombination $A\ 1\ ^4\Sigma^+$ and $A\ 1\ ^6\Sigma^+$ states of RbCs. Physical Review A, 2020, 256, 107291.	1.0	1
5	Deperturbation analysis of the fully mixed $A\ 1\ ^4\Sigma^+$ and $A\ 1\ ^6\Sigma^+$ states of RbCs. Physical Review A, 2020, 256, 107291.	1.0	9
6	Line Identification of Atomic and Ionic Spectra of Holmium in the Visible Spectral Range. II. Spectrum of Ho ii and Ho iii. Astrophysical Journal, Supplement Series, 2019, 240, 28.	3.0	10
7	Line Identification of Atomic and Ionic Spectra of Holmium in the Visible Spectral Range. I. Spectrum of Ho i. Astrophysical Journal, Supplement Series, 2019, 240, 27.	3.0	13
8	Fourier-transform spectroscopy, direct potential fit, and electronic structure calculations on the entirely perturbed $(4)\ ^1\Sigma^+$ state of RbCs. Physical Review A, 2018, 98, .	1.0	1
9	Line Identification of Atomic and Ionic Spectra of Holmium in the Near-UV. II. Spectra of Ho ii and Ho iii. Astrophysical Journal, Supplement Series, 2017, 228, 17.	3.0	11
10	Line Identification of Atomic and Ionic Spectra of Holmium in the Near-UV. Part I. Spectrum of Ho i. Astrophysical Journal, Supplement Series, 2017, 228, 16.	3.0	16
11	Energy and radiative properties of the $(3)\ ^1\Pi$ and $(5)\ ^1\Sigma^+$ states of RbCs: Experiment and theory. Physical Review A, 2017, 96, .	1.0	5
12	Fourier-transform spectroscopy and deperturbation analysis of the spin-orbit coupled $(i>A</i>)\ 1\ ^1\Sigma^+$ and $(i>b</i>)\ 3\ ^1\Sigma^+$ states of KRb. Journal of Chemical Physics, 2016, 144, 144310.	1.2	15
13	Ab initio multi-reference perturbation theory calculations of the ground and low-lying electronic states of the KRb molecule. Computational and Theoretical Chemistry, 2016, 1089, 35-42.	1.1	13
14	HIGH-RESOLUTION FOURIER TRANSFORM SPECTROSCOPY OF Nb i IN THE NEAR-INFRARED. Astrophysical Journal, Supplement Series, 2015, 221, 14.	3.0	9
15	Investigation of the hyperfine structure of weak atomic Vanadium lines by means of Fourier transform spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 115005.	0.6	9
16	Laser synthesis of ultracold alkali metal dimers: optimization and control. Russian Chemical Reviews, 2015, 84, 1001-1020.	2.5	42
17	Fourier-transform spectroscopy and potential construction of the $(2)\ ^1\Pi$ state in KCs. Journal of Chemical Physics, 2015, 142, 134309.	1.2	9
18	Potential construction of the $B\ (1)\ ^1\Pi$ state in KCs based on Fourier-Transform spectroscopy data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 1-4.	1.1	9

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19	HYPERFINE STRUCTURE CONSTANTS OF ENERGETICALLY HIGH-LYING LEVELS OF ODD PARITY OF ATOMIC VANADIUM. <i>Astrophysical Journal, Supplement Series</i> , 2014, 214, 9.	3.0	15
20	Extended Fourier-transform spectroscopy studies and deperturbation analysis of the spin-orbit coupled $A^1\Sigma^+ + \text{and } B^1\Sigma^+$ states in RbCs. <i>Journal of Chemical Physics</i> , 2014, 141, 184309.	1.2	16
21	spin-orbit-coupled $A^1\Sigma^+ + \text{and } B^1\Sigma^+$ states in RbCs. <i>Journal of Chemical Physics</i> , 2014, 141, 184309.	1.0	19
22	Fourier-transform spectroscopy of $(4)1^1\Sigma^+ \hat{A}^+$ $\langle i \rangle A \langle i \rangle \hat{A}^+$ $\langle i \rangle B \langle i \rangle \hat{A}^+$ $\langle i \rangle A \langle i \rangle \hat{A}^+$ $\langle i \rangle B \langle i \rangle \hat{A}^+$ $\langle i \rangle X \langle i \rangle 1^1\Sigma^+$ transitions in KCs and deperturbation treatment of $\langle i \rangle A \langle i \rangle \hat{A}^+$ and $\langle i \rangle B \langle i \rangle \hat{A}^+$ states. <i>Journal of Chemical Physics</i> , 2013, 139, 244301.	1.2	22
23	of RbCs and modeling of the optical cycle for ultracold $X \hat{A}$ Physical Review A, 2013, 87, .	1.0	9
24	Fourier-transform spectroscopy and description of low-lying energy levels in the $\langle i \rangle B \langle i \rangle (1)1^1\Sigma^+$ state of RbCs. <i>Journal of Chemical Physics</i> , 2013, 138, 154304.	1.2	9
25	HIGH-RESOLUTION FOURIER TRANSFORM SPECTROSCOPY OF LANTHANUM IN Ar DISCHARGE IN THE NEAR-IR. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 18.	3.0	25
26	Long-range coupling of $X \hat{A}$ Physical Review A, 2012, 85, .	1.0	19
27	in $K \langle i \rangle (1)1^1\Sigma^+$ state of KCs: High-resolution spectroscopy and description of low-lying energy levels. <i>Journal of Chemical Physics</i> , 2012, 136, 064304.	1.0	6
28	$\langle i \rangle B \langle i \rangle (1)1^1\Sigma^+$ state of KCs: High-resolution spectroscopy and description of low-lying energy levels. <i>Journal of Chemical Physics</i> , 2012, 136, 064304.	1.2	17
29	Fourier transform spectroscopy and direct potential fit of a shelflike state: Application to $\langle i \rangle E \langle i \rangle (4)1^1\Sigma^+$ KCs. <i>Journal of Chemical Physics</i> , 2011, 134, 104307.	1.0	22
30	Singlet and triplet potentials of the ground-state atom pair RbCs studied by Global analysis of data on the spin-orbit-coupled $X \hat{A}$ Physical Review A, 2010, 82, .	1.2	29
31	Global analysis of data on the spin-orbit-coupled $X \hat{A}$ Physical Review A, 2010, 82, .	1.0	40
32	Hyperfine structure of the $3d^3 4s^4 p^6 G$ multiplet of atomic vanadium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 215001.	1.0	41
33	Hyperfine structure of the $3d^3 4s^4 p^6 G$ multiplet of atomic vanadium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 215001.	0.6	13
34	Hyperfine structure study of atomic niobium with enhanced sensitivity of Fourier transform spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 205001.	0.6	19
35	Near-dissociation photoassociative production of deeply bound NaCs molecules. <i>Physical Review A</i> , 2010, 82, .	1.0	26
36	Hyperfine structure measurements of neutral niobium with Fourier transform spectroscopy. <i>Astronomy and Astrophysics</i> , 2010, 516, A70.	2.1	18

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37	Excitation of the $3^1P_1$ state of Cs. Spectroscopic data, spin-orbit functions, and revised analysis of strong perturbative interactions for the $3^1P_1$ state. Physical Review A, 2010, 81, .	1.0	16
38	Fourier-transform spectroscopy and coupled-channels deperturbation treatment of the $3^1P_1$ state of KCs. Physical Review A, 2010, 81, .	1.0	33
39	Analogue of oscillation theorem for nonadiabatic diatomic states: application to the $1^1\Sigma^+$ and $3^1\Sigma^+$ states of KCs. Physical Chemistry Chemical Physics, 2010, 12, 4809.	1.3	13
40	Solution of the fully-mixed-state problem: Direct deperturbation analysis of the $3^1P_1$ state. Physical Review A, 2010, 81, .	1.0	47
41	Spin-orbit, radial, and angular coupling effects in the NaRb excited states. , 2009, , .	1.0	40
42	Spin-orbit, radial, and angular coupling effects in the NaRb excited states. , 2009, , .	1.0	0
43	Title is missing!. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 189802-189802.	0.6	1
44	The ground electronic state of KCs studied by Fourier transform spectroscopy. Journal of Chemical Physics, 2008, 128, 244316.	1.2	38
45	Coherent effects in Cs (nD) states in the presence of an external electric field. , 2007, , .	1.0	0
46	Radiative lifetimes of the $3^1P_1$ state of NaCs. Experiment and theory. Physical Review A, 2007, 76, .	1.0	6
47	Publisher's Note: Deperturbation treatment of the $1^1\Sigma^+$ complex of NaRb and prospects for ultracold molecule formation in $X^1\Sigma^+(v=0;J=0)$ [Phys. Rev. A 75, 042503 (2007)]. Physical Review A, 2007, 75, .	1.0	2
48	Level-crossing spectroscopy of the 7, 9, and 10D states of Cs in an external electric field. , 2007, , .	1.0	0
49	Level-crossing spectroscopy of the 7, 9, and 10D $5^2\Sigma^+$ states of Cs-133 and validation of relativistic many-body calculations of the polarizabilities and hyperfine constants. Physical Review A, 2007, 75, .	1.0	30
50	Deperturbation treatment of the $1^1\Sigma^+$ complex of NaRb and prospects for ultracold molecule formation in $X^1\Sigma^+(v=0;J=0)$ . Physical Review A, 2007, 75, .	1.0	102
51	Deperturbation treatment of the $1^1\Sigma^+$ complex of NaRb and prospects for ultracold molecule formation in $X^1\Sigma^+(v=0;J=0)$ . Physical Review A, 2007, 75, .	1.0	45
52	The $B^1\Sigma^+$ state of NaCs: High resolution laser induced fluorescence spectroscopy and potential construction. Journal of Chemical Physics, 2007, 127, 224302.	1.2	19
53	Optical Non-Contact Electric Field Mapping by LIF in Cs Vapor. , 2007, , .	1.0	0

#	ARTICLE	IF	CITATIONS
55	High resolution spectroscopy and potential determination of the $(3)1^1$ state of NaCs. Journal of Chemical Physics, 2006, 124, 174310.	1.2	23
56	The coupling of the $X1^1\Sigma^+$ and $a3^1\Sigma^+$ states of the atom pair Na + Cs and modelling cold collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S929-S943.	0.6	58
57	Electric field induced hyperfine level-crossings in $(nD)Cs$ at two-step laser excitation: Experiment and theory. Optics Communications, 2006, 264, 333-341.	1.0	15
58	Radiative lifetimes of the NaRb $C(3)1^1\Sigma^+$ state: experiment and theory. European Physical Journal D, 2006, 39, 373-378.	0.6	6
59	Experimental and theoretical studies of $\hat{\nu}$ doublings and permanent electric dipoles in the low-lying $1^1$ states of NaCs. Journal of Chemical Physics, 2006, 124, 184318.	1.2	9
60	Electric-Field-Induced Symmetry Breaking of Angular Momentum Distribution in Atoms. Physical Review Letters, 2006, 97, 043002.	2.9	12
61	Experimental study of the long range interactions between a Na ( $3S$ ) and a Rb ( $5S$ ) atom. , 2005, , .		0
62	LIF intensity distribution as a deperturbation tool: application to the fully-mixed $\hat{\nu}$ complex of NaRb. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 165-174.	1.1	10
63	Accurate characterisation of the $C(3)1^1\Sigma^+$ state of the NaRb molecule. European Physical Journal D, 2005, 36, 57-65.	0.6	20
64	The $D1^1$ state of the NaRb molecule. European Physical Journal D, 2005, 36, 49-55.	0.6	20
65	Permanent electric dipoles and $\hat{\nu}$ -doubling constants in the lowest $1^1$ states of RbCs. Physical Review A, 2005, 71, .	1.0	29
66	Potentials for modeling cold collisions between Na ( $3S$ ) and Rb ( $5S$ ) atoms. Physical Review A, 2005, 72, .	1.0	72
67	Spectroscopic studies of NaCs for the ground state asymptote of Na + Cs pairs. European Physical Journal D, 2004, 31, 205-211.	0.6	36
68	Potential of the ground state of NaRb. Physical Review A, 2004, 69, .	1.0	44
69	Spontaneous lifetimes and relaxation cross-sections of the $D1^1$ state of NaRb. Chemical Physics Letters, 2003, 382, 593-598.	1.2	5
70	High resolution spectroscopy and channel-coupling treatment of the $A\hat{\nu}1^1\Sigma^+$ complex of NaRb. Journal of Chemical Physics, 2002, 117, 7980-7988.	1.2	45
71	Experimental studies of the NaRb ground-state potential up to the $\hat{\nu}^3=76$ level. Physical Review A, 2002, 66, .	1.0	17
72	Energy and radiative properties of the low-lying NaRb states. Physical Review A, 2001, 63, .	1.0	31

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73	Influence of the Stark effect on the fluorescence polarization of $X^1\Sigma^+ B^1\Sigma^+$ -state laser-excited NaRb: application to the direct imaging of electric fields. Journal Physics D: Applied Physics, 2001, 34, 624-630.	1.3	5
74	The origin of $\hat{l}$ -doubling effect for the $B^1\Sigma^+$ and $D^1\Sigma^+$ states of NaK. Journal of Chemical Physics, 2000, 113, 8589-8593.	1.2	14
75	Permanent electric dipoles in $B^1\Sigma^+$ and $D^1\Sigma^+$ states of NaRb: Experiment and theory. Journal of Chemical Physics, 2000, 113, 4896.	1.2	19
76	Electric field induced alignment-orientation conversion in diatomic molecules: analysis and observation for NaK. Journal of Molecular Structure, 1999, 480-481, 283-287.	1.8	2
77	NaK $\hat{l}$ doubling and permanent electric dipoles in low-lying $1^1\Sigma^+$ states: Experiment and theory. Physical Review A, 1998, 58, 1932-1943.	1.0	23
78	Lifetimes and transition dipole moment functions of NaK low lying singlet states: Empirical and ab initio approach. Journal of Chemical Physics, 1998, 109, 6725-6735.	1.2	28
79	NaK $D^1\Sigma^+$ electric dipole moment measurement by Stark level crossing and $\hat{l}$ -mixing spectroscopy. Journal of Chemical Physics, 1997, 106, 2195-2204.	1.2	17
80	Stark level crossing and optical-rf double resonance in NaK $D^1\Sigma^+$ , 1997, , .		0
81	Magnetic predissociation in Te $2 B^1 \Sigma^+$ , 1997, 3090, 189.		0
82	Studies of rotational level $\hat{l}$ -doubling by rf-optical double resonance spectroscopy: application to NaK $D^1\Sigma^+$ . Journal of Molecular Structure, 1997, 410-411, 55-58.	1.8	0
83	Magnetic field induced alignment-orientation conversion: Nonlinear energy shift and predissociation in Te $2 B^1 \Sigma^+$ state. Journal of Chemical Physics, 1996, 105, 37-49.	1.2	8
84	Energy transfer, collisional quenching and natural lifetime of laser-excited $D^1\Sigma^+$ state of the NaRb molecule. Physica Scripta, 1992, 45, 328-330.	1.2	5