Ryszard Stanislaw Trawinski

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	High-signal-to-noise-ratio laser technique for accurate measurements of spectral line parameters. Physical Review A, 2012, 85, .	1.0	96
2	Pound-Drever-Hall-locked, frequency-stabilized cavity ring-down spectrometer. Review of Scientific Instruments, 2011, 82, 063107.	0.6	92
3	Cavity ring-down spectroscopy of the oxygen B-band with absolute frequency reference to the optical frequency comb. Journal of Chemical Physics, 2012, 136, 024201.	1.2	54
4	Line-shape study of self-broadened O <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:msub><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> transitions measured by Pound-Drever-Hall-locked frequency-stabilized cavity ring-down spectroscopy. Physical Review A, 2011, 84, .	1.0	46
5	Influence of the line-shape model on the spectroscopic determination of the Boltzmann constant. Physical Review A, 2010, 82, .	1.0	45
6	Spectral line shapes of self-broadened P-branch transitions of oxygen B band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 144, 36-48.	1.1	41
7	xmins:mmi= http://www.w3.org/1998/Math/Math/Math/Math/Math/Math/Math/Math	v> 1.0	hath> <mmkr 38</mmkr
8	Active control of the Pound–Drever–Hall error signal offset in high-repetition-rate cavity ring-down spectroscopy. Measurement Science and Technology, 2011, 22, 115303.	1.4	37
9	Low pressure line-shape study of self-broadened CO transitions in the (3â†0) band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 191-200.	1.1	32
10	Spectral line-shapes investigation with Pound-Drever-Hall-locked frequency-stabilized cavity ring-down spectroscopy. European Physical Journal: Special Topics, 2013, 222, 2119-2142.	1.2	29
11	Broadband Optical Cavity Mode Measurements at Hz-Level Precision With a Comb-Based VIPA Spectrometer. Scientific Reports, 2019, 9, 8206.	1.6	29
12	A new approach to spectral line shapes of the weak oxygen transitions for atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 169, 111-121.	1.1	27
13	Laser-induced fluorescence study of collision-time asymmetry and speed-dependent effects on the114Cd326.1-nm line perturbed by Xe. Physical Review A, 2000, 62, .	1.0	26
14	Strontium optical lattice clocks for practical realization of the metre and secondary representation of the second. Measurement Science and Technology, 2015, 26, 075201.	1.4	26
15	High-accuracy and wide dynamic range frequency-based dispersion spectroscopy in an optical cavity. Optics Express, 2019, 27, 21810.	1.7	26
16	Low-pressure line-shape study in molecular oxygen with absolute frequency reference. Journal of Chemical Physics, 2013, 139, 194312.	1.2	20
17	Spectral line shapes and frequencies of the molecular oxygen B-band R-branch transitions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 155, 22-31.	1.1	19
18	Non-adiabatic approach to the asymmetry of pressure broadened spectral lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 57, 551-557.	1.1	18

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19	Self-referenced, accurate and sensitive optical frequency comb spectroscopy with a virtually imaged phased array spectrometer. Optics Letters, 2016, 41, 974.	1.7	18
20	Effect of dissociative recombination on spectral line profiles in neon glow discharge. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 4181-4193.	0.6	17
21	Interpretation of low-pressure broadening and shift in the argon spectrum. Physica Scripta, 1993, 47, 186-191.	1.2	16
22	Line positions, pressure broadening and shift coefficients for the second overtone transitions of carbon monoxide in argon. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 191, 46-54.	1.1	16
23	Ultra-Narrow Laser for Optical Frequency Reference. Acta Physica Polonica A, 2012, 121, 614-621.	0.2	15
24	Power-law temperature dependence of collision broadening and shift of atomic and molecular rovibronic lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 120, 90-103.	1.1	14
25	On the role of Dicke narrowing in the formation of atomic line shapes in the optical domain. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3985-3998.	0.6	13
26	Collision-Time Asymmetry and Speed-Dependent Effects on the114Cd 326.1 nm Line Perturbed by Kr. Acta Physica Polonica A, 2001, 99, 243-256.	0.2	12
27	Pressure effects on 2p53p-2p55d and 2p53p-2p56d transitions in neon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 4909-4918.	0.6	11
28	Low pressure broadening and shift of the cadmium intercombination line 326.1 nm (51S0-53P1) perturbed by He and Ne. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 5863-5870.	0.6	11
29	Speed-dependent collisional effects on the 326.1-nm Cd line perturbed by Xe. Physical Review A, 1997, 56, 4501-4507.	1.0	10
30	Collision-time asymmetry of the 114Cd 326.1 nm line perturbed by Ar. European Physical Journal D, 2001, 14, 27-31.	0.6	10
31	Laser-induced fluorescence study of the influence of N \$scriptstyle mathsf {}\$ 2 and CH \$scriptstyle mathsf {}\$ 4 on the \$scriptstyle mathsf {}\$. European Physical Journal D, 2003, 23, 217-222.	0.6	9
32	Pressure broadening and shift of the 326.1 nm Cd line perturbed by argon. Physica Scripta, 1996, 53, 541-544.	1.2	8
33	Line-shape analysis for high J R-branch transitions of the oxygen B band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106789.	1.1	8
34	Pressure Broadening and Shift of the 326.1 nm Cd Line Perturbed by H ₂ and D ₂ . Acta Physica Polonica A, 2000, 97, 1003-1010.	0.2	8
35	Low-pressure broadening and shift of 3p54s-3p5np (n=4, 5, 6) argon spectral lines perturbed by He, Ne, Ar. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 2003-2012.	0.6	7
36	Effects of Low-Polarizability Perturbers on the Cadmium Intercombination Line. Acta Physica Polonica A, 2003, 103, 23-40.	0.2	7

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37	Pressure effects on 2p5 3p - 2p5 3d transitions in neon. Annalen Der Physik, 1993, 505, 1-8. Buffer-gas-induced collision shift for the <mml:math< td=""><td>0.9</td><td>6</td></mml:math<>	0.9	6
38	display="inline"> <mml:mrow> <mml:mmultiscripts> <mml:mtext> Sr </mml:mtext> <mml:mprescripts /> <mml:none /> <mml:mrow> <mml:mn> 88 </mml:mn> </mml:mrow> </mml:none </mml:mprescripts </mml:mmultiscripts> </mml:mrow> <mml:math> <mml:math> <mml:math> </mml:math> </mml:math> </mml:math> <td>1.0 th</td> <td>6</td>	1.0 th	6
39	display="inline", < Emiline wy Km 748.8 nm Ne Self-Broadened Line. Acta Physica Polonica A, 1999, 96, 359-372.	0.2	6
40	Quasistatic interpretation of the He- and Ne-induced blue asymmetry of the326.1â^'nmCd line shapes in the core and near-wing regions. Physical Review A, 2006, 74, .	1.0	5
41	The hyperfine and isotope structure of the Cd intercombination line – revisited. European Physical Journal D, 2009, 51, 295-302.	0.6	5
42	Precise cavity enhanced absorption spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012015.	0.3	5
43	Optical frequency comb-based cavity-enhanced Fourier-transform spectroscopy: Application to collisional line-shape study. Chinese Journal of Chemical Physics, 2020, 33, 23-30.	0.6	5
44	Observation of the Line-Mixing and Collision-Time Asymmetry of the 5 ¹ S ₀ -5 ³ P ₁ Line of the Even-Odd ¹¹³ Cd Isotope. Acta Physica Polonica A, 2004, 105, 329-338.	0.2	5
45	Differential Equation for Asymmetric Voigt Profile. Acta Physica Polonica A, 1993, 83, 425-430.	0.2	5
46	Analysis of Broadening and Shift of the 326.1 nm Cd Line by He and Ne. Acta Physica Polonica A, 1996, 90, 1155-1167.	0.2	5
47	Influence of Excitation Processes on the Shape of Argon and Neon Lines. Acta Physica Polonica A, 2000, 97, 275-284.	0.2	5
48	Investigation of highly excited states of calcium by three-photon ionization. European Physical Journal D, 2004, 30, 15-22.	0.6	4
49	Asymmetry and speed-dependent effects on the 748.8Ânm self-broadened neon line. European Physical Journal D, 2010, 56, 17-25.	0.6	4
50	Broadening and Shift of Optical Lines of Argon Involving Quasi-Rydberg States. Acta Physica Polonica A, 1994, 86, 333-341.	0.2	4
51	Broadband and high resolution measurements of cavity loss and dispersion. Photonics Letters of Poland, 2018, 10, 48.	0.2	4
52	Pressure effects on the 506 nm argon line. Physica Scripta, 1991, 44, 141-144.	1.2	3
53	Temperature effects on the width, shift and asymmetry of 748.8Ânm self-broadened neon line. European Physical Journal D, 2011, 61, 1-6.	0.6	3
54	Spectral line-shapes of oxygen B-band transitions measured with cavity ring-down spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012028.	0.3	3

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55	On Argon-Induced Pressure Shifts of ¹⁹⁸ Hg Spectral Lines Associated with Quasi-Rydberg Transitions. Acta Physica Polonica A, 2006, 110, 51-56.	0.2	3
56	Some Remarks on Pressure Effects on 2p ⁵ 3p-2p ⁵ ns (n=5, 6, 7) Transitions in Neon. Acta Physica Polonica A, 1992, 81, 369-378.	0.2	3
57	Influence of the lower state perturbation on the broadening and shift of optical lines of neon involving quasi-Rydberg states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 4789-4800.	0.6	2
58	COLLISION-TIME ASYMMETRY OF THE 114Cd 326.1nm LINE PERTURBED BY KRYPTON. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 61, 735-742.	1.1	2
59	Precision spectroscopy of cold strontium atoms, towards optical atomic clock. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2012, 60, 707-710.	0.8	2
60	Alternative approaches to cavity enhanced absorption spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012024.	0.3	2
61	VIPA spectrometer calibration and comb-cavity locking schemes comparison for sensitive and accurate frequency comb spectroscopy. Journal of Physics: Conference Series, 2017, 810, 012035.	0.3	2
62	Non-Adiabatic Semiclassical Calculations of the Collision-Time Asymmetry of the114Cd 326.1 nm Line Perturbed by Noble Gases. Acta Physica Polonica A, 2004, 105, 217-232.	0.2	2
63	Broadband CO2 measurements with VIPA spectrometer in the near-infrared. Photonics Letters of Poland, 2015, 7, .	0.2	2
64	Spectral line tilt effect in the Ebert spectrograph. Applied Optics, 1987, 26, 2912.	2.1	1
65	Method of accurately measuring the spectral line tilt in the Ebert spectrograph. Applied Optics, 1993, 32, 4828.	2.1	1
66	Asymmetry of hyperfine-structure components of the 5 1S0-53P1 113Cd line perturbed by argon. European Physical Journal: Special Topics, 2007, 144, 239-242.	1.2	1
67	Broadening and shifting of [sup 88]Sr intercombination clock transitions induced by collisions with rare gases. , 2010, , .		1
68	CRDS investigation of line shapes and intensities of the oxygen B-band transitions at low pressures. , 2010, , .		1
69	Fourier-Transform Frequency Comb Cavity Mode Spectroscopy at Hz Level for Trace Gas Measurements. , 2018, , .		1
70	VIPA Spectrometer for Accurate and Sensitive Self-Referenced Frequency Comb Spectroscopy. , 2016, , .		1
71	Asymmetric line broadening. , 2003, , .		0
72	Line-mixing and collision duration asymmetry of the 51S 0 -53P 1 line of even-odd and even-even isotopes of cadmium. , 2005, , .		0

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73	Isotope Effects Associated With Optical Collisions In The Cd-Ar System. AIP Conference Proceedings, 2006, , .	0.3	0
74	Pressure broadening of hyperfine-structure components of the 5 1S0– 5 3P1 113Cd line perturbed by argon. European Physical Journal: Special Topics, 2007, 144, 243-245.	1.2	0
75	Temperature dependence of the width and shift of the selfbroadened 748.8 nm neon line. European Physical Journal: Special Topics, 2007, 144, 247-249.	1.2	0
76	Influence of Temperature on Line Shape Parameters of the Self-broadened 748.8 nm Ne Line. , 2008, , .		0
77	Back ground gas induced collision shift for 88Sr: 1S0-3P1 transition. , 2009, , .		о
78	Frequency-stabilized cavity ring-down spectroscopy with a PDH locked laser. , 2010, , .		0
79	Spectral line shape problem in the spectroscopic determination of the Boltzmann constant. , 2010, , .		О
80	Demonstration of the extremely high signal-to-noise ratio and advanced O ₂ B-band line shape analysis in the PDH-locked FS-CRDS experiment. Journal of Physics: Conference Series, 2012, 397, 012046.	0.3	0
81	Transition frequencies of oxygen B-band lines measured with optical frequency comb assisted cavity ring-down spectroscopy. Journal of Physics: Conference Series, 2012, 397, 012045.	0.3	0
82	Towards Polish Optical Clock with Cold Strontium Atoms, present status and performance. , 2012, , .		0
83	Speed-dependent Voigt profile parameters for oxygen B-band measured by cavity ring-down spectrometer referenced to the optical frequency comb. Journal of Physics: Conference Series, 2017, 810, 012030.	0.3	0
84	Optical Cavity Mode Measurements at Hz-Level Precision With a Comb-Based VIPA Spectrometer. , 2018, , .		0
85	Comb-Based Fourier-Transform Spectrometry for Broadband Measurements of Absorption and Dispersion. , 2019, , .		0
86	Temperature Effects on Dissociative Recombination in Neon. Acta Physica Polonica A, 2011, 119, 336-341.	0.2	0
87	Line Shape Measurements of CO Using Frequency Comb Based Cavity-Enhanced Absorption Spectroscopy. , 2018, , .		0
88	Application of Cavity-Enhanced Comb-Based Fourier-Transform Spectroscopy to Line Shape Study of Carbon Monoxide in Argon. , 2018, , .		0
89	Cavity-Enhanced Direct Optical Frequency Comb Spectroscopy with Tooth-Width Limited Resolution. , 2019, , .		0
90	Mirror Characterization and Complex Refractive Index Measurements with Hz-level Resolution Fourier Transform Spectrometry. , 2019, , .		0