## List of Publications by Year in descending order

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ΔΟΛΤΛ ΟΥΟΛΝ

#	Article	IF	CITATIONS
1	High-signal-to-noise-ratio laser technique for accurate measurements of spectral line parameters. Physical Review A, 2012, 85, .	2.5	96
2	Pound-Drever-Hall-locked, frequency-stabilized cavity ring-down spectrometer. Review of Scientific Instruments, 2011, 82, 063107.	1.3	92
3	Experimental constraint on dark matter detection with optical atomic clocks. Nature Astronomy, 2017, 1, .	10.1	84
4	Frequency-stabilized cavity ring-down spectroscopy. Chemical Physics Letters, 2012, 536, 1-8.	2.6	72
5	Cavity mode-width spectroscopy with widely tunable ultra narrow laser. Optics Express, 2013, 21, 29744.	3.4	58
6	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.	3.0	54
7	Accurate deuterium spectroscopy for fundamental studies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 41-51.	2.3	54
8	Comb-linked, cavity ring-down spectroscopy for measurements of molecular transition frequencies at the kHz-level. Journal of Chemical Physics, 2013, 138, 094201.	3.0	51
9	Line-shape study of self-broadened O <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<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.	2.5	46
10	Influence of the line-shape model on the spectroscopic determination of the Boltzmann constant. Physical Review A, 2010, 82, .	2.5	45
11	Absolute measurement of the 1S0 â^ 3PO clock transition in neutral 88Sr over the 330 km-long stabilize fibre optic link. Scientific Reports, 2015, 5, 17495.	d <sub>3.3</sub>	45
12	One-dimensional frequency-based spectroscopy. Optics Express, 2015, 23, 14472.	3.4	42
13	Spectral line shapes of self-broadened P-branch transitions of oxygen B band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 144, 36-48.	2.3	41
14	Observations of Dicke narrowing and speed dependence in air-broadened CO2 lineshapes near 2.06Â <i>μ</i> m. Journal of Chemical Physics, 2014, 141, 174301.	3.0	40
15	Application of the Hartmann–Tran profile to analysis of H2O spectra. Journal of Quantitative Spectroscopy and Radiative Transfer. 2015, 164, 221-230. Line shapes and intensities of self-proadened <mini.math< td=""><td>2.3</td><td>39</td></mini.math<>	2.3	39
16	xmIns:mmI="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:msub><mml:mi mathvariant="normal"&gt;O<mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mi </mml:msub>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mrow><mml:mi>b</mml:mi></mml:mrow><mml:math< td=""><td>&gt;2.5</td><td>1ath&gt;<mml:r 38</mml:r </td></mml:math<></mml:mrow>	>2.5	1ath> <mml:r 38</mml:r 
17	Annis.min= http://www.ws.org/1998/Math/MathML display="inline", < nml-mrow < mpl-metric Active control of the Pounda€"Drevera€"Hallerror signal offset in high-repetition-rate cavity ring-down spectroscopy. Measurement Science and Technology, 2011, 22, 115303.	2.6	37
18	Absolute molecular transition frequencies measured by three cavity-enhanced spectroscopy techniques. Journal of Chemical Physics, 2016, 144, 214202.	3.0	37

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19	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.	2.3	32
20	Quadratic speed dependence of collisional broadening and shifting for atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 43-48.	2.3	32
21	Fibre-optic delivery of time and frequency to VLBI station. Astronomy and Astrophysics, 2017, 603, A48.	5.1	32
22	Spectral line-shapes investigation with Pound-Drever-Hall-locked frequency-stabilized cavity ring-down spectroscopy. European Physical Journal: Special Topics, 2013, 222, 2119-2142.	2.6	29
23	Broadband Optical Cavity Mode Measurements at Hz-Level Precision With a Comb-Based VIPA Spectrometer. Scientific Reports, 2019, 9, 8206.	3.3	29
24	Iterative approach to line-shape calculations based on the transport-relaxation equation. Physical Review A, 2013, 88, .	2.5	28
25	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.	2.3	27
26	Strontium optical lattice clocks for practical realization of the metre and secondary representation of the second. Measurement Science and Technology, 2015, 26, 075201.	2.6	26
27	High-accuracy and wide dynamic range frequency-based dispersion spectroscopy in an optical cavity. Optics Express, 2019, 27, 21810.	3.4	26
28	Ultrahigh finesse cavity-enhanced spectroscopy for accurate tests of quantum electrodynamics for molecules. Optics Letters, 2020, 45, 1603.	3.3	26
29	One-dimensional cavity mode-dispersion spectroscopy for validation of CRDS technique. Measurement Science and Technology, 2016, 27, 045501.	2.6	21
30	Low-pressure line-shape study in molecular oxygen with absolute frequency reference. Journal of Chemical Physics, 2013, 139, 194312.	3.0	20
31	Wavelength-meter controlled cavity ring-down spectroscopy: high-sensitivity detection of trace moisture in N 2 at sub-ppb levels. Sensors and Actuators A: Physical, 2016, 241, 152-160.	4.1	20
32	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.	2.3	19
33	Absolute frequency determination of molecular transition in the Doppler regime at kHz level of accuracy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 156-160.	2.3	19
34	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.	2.3	16
35	Speed-dependent effects and Dicke narrowing in nitrogen-broadened oxygen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 68-75.	2.3	15
36	Ultra-Narrow Laser for Optical Frequency Reference. Acta Physica Polonica A, 2012, 121, 614-621.	0.5	15

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37	Dual-comb cavity ring-down spectroscopy. Scientific Reports, 2022, 12, 2377.	3.3	14
38	Response of an optical cavity to phase-controlled incomplete power switching of nearly resonant incident light. Optics Express, 2018, 26, 5644.	3.4	11
39	Accuracy budget of the88Sr optical atomic clocks at KL FAMO. Physica Scripta, 2016, 91, 084003.	2.5	10
40	Parts-per-trillion sensitivity for trace-moisture detection using wavelength-meter-controlled cavity ring-down spectroscopy. AIP Advances, 2019, 9, .	1.3	10
41	Cavity buildup dispersion spectroscopy. Communications Physics, 2021, 4, .	5.3	9
42	Line-shape analysis for high J R-branch transitions of the oxygen B band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106789.	2.3	8
43	The Effects of Variations in Buffer Gas Mixing Ratios on Commercial Carbon Dioxide Cavity Ring-Down Spectroscopy Sensors. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2604-2609.	1.3	7
44	Simultaneous observation of speed dependence and Dicke narrowing for self-perturbed P-branch lines of O <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si36.svg"&gt;<mml:msub><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> B band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107927.	2.3	7
45	Frequency-based dispersion Lamb-dip spectroscopy in a high finesse optical cavity. Optics Express, 2021, 29, 39449.	3.4	7
46	The hyperfine and isotope structure of the Cd intercombination line – revisited. European Physical Journal D, 2009, 51, 295-302.	1.3	5
47	Precise cavity enhanced absorption spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012015.	0.4	5
48	Note: Reliable, robust measurement system for trace moisture in gas at parts-per-trillion levels using cavity ring-down spectroscopy. Review of Scientific Instruments, 2015, 86, 106110.	1.3	4
49	Speed-dependent effects in Doppler-free saturation spectra. Journal of Molecular Spectroscopy, 2018, 351, 21-28.	1.2	4
50	Broadband and high resolution measurements of cavity loss and dispersion. Photonics Letters of Poland, 2018, 10, 48.	0.4	4
51	Spectral line-shapes of oxygen B-band transitions measured with cavity ring-down spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012028.	0.4	3
52	Multi-spectrum fitting software for advanced spectral line shapes analysis. Journal of Physics: Conference Series, 2017, 810, 012025.	0.4	3
53	Spectral line-shape study by cavity-enhanced complex refractive index spectroscopy. Journal of Physics: Conference Series, 2017, 810, 012007.	0.4	3
54	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

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55	Alternative approaches to cavity enhanced absorption spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012024.	0.4	2
56	Spectral analysis of H <sub>2</sub> O near 7180 cm <sup>–1</sup> to accurately measure trace moisture in N <sub>2</sub> gas: evaluation of line shape profiles using Akaike Information Criterion. Japanese Journal of Applied Physics, 2022, 61, 012003.	1.5	2
57	CRDS investigation of line shapes and intensities of the oxygen B-band transitions at low pressures. , 2010, , .		1
58	Ultra accurate measurements andab initiocalculations of collisional effects in pure D2 Journal of Physics: Conference Series, 2017, 810, 012042.	0.4	1
59	Fourier-Transform Frequency Comb Cavity Mode Spectroscopy at Hz Level for Trace Gas Measurements. , 2018, , .		1
60	Line Shape Study of the 326.1 nm [sup 113]Cd line perturbed by Ar and Xe. , 2008, , .		0
61	Isotope Structure and Hyperfine Splitting of 326.1 nm [sup 113]Cd line. , 2008, , .		0
62	Frequency-stabilized cavity ring-down spectroscopy with a PDH locked laser. , 2010, , .		0
63	Spectral line shape problem in the spectroscopic determination of the Boltzmann constant. , 2010, , .		0
64	Demonstration of the extremely high signal-to-noise ratio and advanced O <sub>2</sub> B-band line shape analysis in the PDH-locked FS-CRDS experiment. Journal of Physics: Conference Series, 2012, 397, 012046.	0.4	0
65	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.	0.4	0
66	Towards Polish Optical Clock with Cold Strontium Atoms, present status and performance. , 2012, , .		0
67	Project of photoassociative measurements for determination of the density shift of the <sup>1</sup> 5 <inf>0</inf> − <sup>3</sup> P <inf>0clock transition in neutral strontium. , 2013, , .</inf>	kgt;	0
68	Line-shapes analysis with ultra-high accuracy. Journal of Physics: Conference Series, 2014, 548, 012022.	0.4	0
69	CRDS investigation of line shapes of the nitrogen-broadened oxygen <i>B</i> -band transition. Journal of Physics: Conference Series, 2015, 635, 092109.	0.4	0
70	Two independent strontium optical lattice clocks for practical realization of the meter and secondary representation of the second. , 2015, , .		0
71	The optical 88Sr lattice clocks and stabilized fibre links: A frequency reference for the VLBI system over a 15.5-km link and an absolute measurement of the clock transition over a 330-km link. , 2016, , .		0
72	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.	0.4	0

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73	Measurement of oxygen B–band line center frequency in reference to strontium atomic optical clock. Journal of Physics: Conference Series, 2017, 810, 012024.	0.4	0
74	Experimental constraint on dark matter-standard model coupling with optical atomic clocks. , 2017, , .		0
75	Optical Cavity Mode Measurements at Hz-Level Precision With a Comb-Based VIPA Spectrometer. , 2018, ,		0
76	Comb-Based Fourier-Transform Spectrometry for Broadband Measurements of Absorption and Dispersion. , 2019, , .		0
77	Broadband cavity-enhanced molecular absorption and dispersion spectroscopy with a frequency comb-based VIPA spectrometer. , 2018, , .		0
78	Cavity-Enhanced Direct Optical Frequency Comb Spectroscopy with Tooth-Width Limited Resolution. , 2019, , .		0
79	Mirror Characterization and Complex Refractive Index Measurements with Hz-level Resolution Fourier Transform Spectrometry. , 2019, , .		0