

# Szymon Wojtewicz

## List of Publications by Year in descending order

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62  
papers

1,021  
citations

361413

20  
h-index

434195

31  
g-index

62  
all docs

62  
docs citations

62  
times ranked

436  
citing authors

#	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	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
4	Accurate deuterium spectroscopy for fundamental studies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 41-51.	2.3	54
5	Line-shape study of self-broadened O <sub>2</sub> transitions measured by Pound-Drever-Hall-locked frequency-stabilized cavity ring-down spectroscopy. Physical Review A, 2011, 84, .	2.5	46
6	One-dimensional frequency-based spectroscopy. Optics Express, 2015, 23, 14472.	3.4	42
7	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
8	Frequency-agile, rapid scanning cavity ring-down spectroscopy (FARS-CRDS) measurements of the (30012)â†(00001) near-infrared carbon dioxide band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 161, 35-40.	2.3	39
9	Line-shape study of self-broadened O <sub>2</sub> transitions measured by Pound-Drever-Hall-locked frequency-stabilized cavity ring-down spectroscopy. Physical Review A, 2011, 84, .	2.5	38
10	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.	2.6	37
11	Absolute molecular transition frequencies measured by three cavity-enhanced spectroscopy techniques. Journal of Chemical Physics, 2016, 144, 214202.	3.0	37
12	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
13	Quantum-noise-limited cavity ring-down spectroscopy. Applied Physics B: Lasers and Optics, 2014, 115, 149-153.	2.2	31
14	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
15	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
16	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
17	High-accuracy and wide dynamic range frequency-based dispersion spectroscopy in an optical cavity. Optics Express, 2019, 27, 21810.	3.4	26
18	Ultrahigh finesse cavity-enhanced spectroscopy for accurate tests of quantum electrodynamics for molecules. Optics Letters, 2020, 45, 1603.	3.3	26

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19	One-dimensional cavity mode-dispersion spectroscopy for validation of CRDS technique. Measurement Science and Technology, 2016, 27, 045501.	2.6	21
20	Low-pressure line-shape study in molecular oxygen with absolute frequency reference. Journal of Chemical Physics, 2013, 139, 194312.	3.0	20
21	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
22	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
23	Self-referenced, accurate and sensitive optical frequency comb spectroscopy with a virtually imaged phased array spectrometer. Optics Letters, 2016, 41, 974.	3.3	18
24	Comb-locked frequency-swept synthesizer for high precision broadband spectroscopy. Scientific Reports, 2020, 10, 2523.	3.3	18
25	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
26	Speed-dependent effects and Dicke narrowing in nitrogen-broadened oxygen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 68-75.	2.3	15
27	Response of an optical cavity to phase-controlled incomplete power switching of nearly resonant incident light. Optics Express, 2018, 26, 5644.	3.4	11
28	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
29	Simultaneous observation of speed dependence and Dicke narrowing for self-perturbed P-branch lines of O $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si36.svg" \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ B band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107927.	2.3	7
30	Frequency-based dispersion Lamb-dip spectroscopy in a high finesse optical cavity. Optics Express, 2021, 29, 39449.	3.4	7
31	Effects of incomplete light extinction in frequency-agile, rapid scanning spectroscopy. Proceedings of SPIE, 2013, , .	0.8	6
32	Accurate deuterium spectroscopy and comparison with <i>ab initio</i> calculations. Physical Review A, 2020, 101, .	2.5	6
33	Precise cavity enhanced absorption spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012015.	0.4	5
34	Dispersion corrections to the Gaussian profile describing the Doppler broadening of spectral lines. Physical Review A, 2016, 93, .	2.5	5
35	Nonlinear resonances in linear segmented Paul trap of short central segment. Journal of Mass Spectrometry, 2018, 53, 541-547.	1.6	5
36	Multispectrum rotational states distribution thermometry: application to the $3\hat{1}/2_{1} + \hat{1}/2_{3}$ band of carbon dioxide. New Journal of Physics, 2020, 22, 083071.	2.9	5

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37	Optical system for Doppler cooling of trapped calcium ions. Photonics Letters of Poland, 2017, 9, 119.	0.4	5
38	Speed-dependent effects in Doppler-free saturation spectra. Journal of Molecular Spectroscopy, 2018, 351, 21-28.	1.2	4
39	Line mixing in the oxygen B band head. Journal of Chemical Physics, 2022, 156, 084301.	3.0	4
40	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
41	Electron impact ionization of calcium atoms inside quadrupole trap. Journal of Physics: Conference Series, 2017, 875, 052008.	0.4	3
42	Spectral line-shape study by cavity-enhanced complex refractive index spectroscopy. Journal of Physics: Conference Series, 2017, 810, 012007.	0.4	3
43	Measurement of electron-calcium ionization integral cross section using an ion trap with a low-energy, pulsed electron gun. Journal of Electron Spectroscopy and Related Phenomena, 2018, 228, 13-19.	1.7	3
44	Alternative approaches to cavity enhanced absorption spectroscopy. Journal of Physics: Conference Series, 2014, 548, 012024.	0.4	2
45	VIPA spectrometer calibration and comb-cavity locking schemes comparison for sensitive and accurate frequency comb spectroscopy. Journal of Physics: Conference Series, 2017, 810, 012035.	0.4	2
46	Broadband CO <sub>2</sub> measurements with VIPA spectrometer in the near-infrared. Photonics Letters of Poland, 2015, 7, .	0.4	2
47	Broadening and shifting of [ <sup>88</sup> Sr intercombination clock transitions induced by collisions with rare gases. , 2010, , .		1
48	CRDS investigation of line shapes and intensities of the oxygen B-band transitions at low pressures. , 2010, , .		1
49	Ultra accurate measurements andab initio calculations of collisional effects in pure D <sub>2</sub> . Journal of Physics: Conference Series, 2017, 810, 012042.	0.4	1
50	Dispersion and relativistic corrections to the spectral line-shape models. Journal of Physics: Conference Series, 2017, 810, 012062.	0.4	1
51	VIPA Spectrometer for Accurate and Sensitive Self-Referenced Frequency Comb Spectroscopy. , 2016, , .		1
52	Spectroscopy With Frequency Comb-Locked Optical Swept Synthesizer. , 2019, , .		1
53	Frequency-stabilized cavity ring-down spectroscopy with a PDH locked laser. , 2010, , .		0
54	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

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55	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
56	Rapid scanning cavity ring-down spectroscopy at the quantum noise limit. , 2014, , .		0
57	CRDS investigation of line shapes of the nitrogen-broadened oxygen B-band transition. Journal of Physics: Conference Series, 2015, 635, 092109.	0.4	0
58	Two independent strontium optical lattice clocks for practical realization of the meter and secondary representation of the second. , 2015, , .		0
59	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
60	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
61	Comb-calibrated Stimulated-Raman Spectroscopy of H <sub>2</sub> . , 2021, , .		0
62	Mode-Resolved Absorption and Dispersion Measurements in High-Finesse Cavities. , 2014, , .		0