

Grzegorz A Kowzan

List of Publications by Year in descending order

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all docs

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44
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citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-comb cavity-mode width and shift spectroscopy. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110519.	5.0	7
2	Dual-comb cavity ring-down spectroscopy. Scientific Reports, 2022, 12, 2377.	3.3	14
3	Broadband cavity-enhanced ultrafast spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 9743-9752.	2.8	10
4	Dual-comb cavity-enhanced absorption and dispersion spectroscopy from cavity mode widths and mode shifts measurement. , 2021, , .		0
5	Frequency-based dispersion Lamb-dip spectroscopy in a high finesse optical cavity. Optics Express, 2021, 29, 39449.	3.4	7
6	Evaluation of different parameterizations of temperature dependences of the line-shape parameters based on ab initio calculations: Case study for the HITRAN database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106676.	2.3	25
7	Fully quantum calculations of the line-shape parameters for the Hartmann-Tran profile: A CO-Ar case study. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 243, 106803.	2.3	14
8	Optical frequency comb-based cavity-enhanced Fourier-transform spectroscopy: Application to collisional line-shape study. Chinese Journal of Chemical Physics, 2020, 33, 23-30.	1.3	5
9	Subpercent agreement between <i>ab initio</i> and experimental collision-induced line shapes of carbon monoxide perturbed by argon. Physical Review A, 2020, 102, .	2.5	9
10	Ultrahigh finesse cavity-enhanced spectroscopy for accurate tests of quantum electrodynamics for molecules. Optics Letters, 2020, 45, 1603.	3.3	26
11	Widely tunable cavity-enhanced frequency combs. Optics Letters, 2020, 45, 2123.	3.3	4
12	Broadband Optical Cavity Mode Measurements at Hz-Level Precision With a Comb-Based VIPA Spectrometer. Scientific Reports, 2019, 9, 8206.	3.3	29
13	Comb-Based Fourier-Transform Spectrometry for Broadband Measurements of Absorption and Dispersion. , 2019, , .		0
14	Tunable visible frequency combs from a Yb-fiber-laser-pumped optical parametric oscillator. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	8
15	Absolute frequency and isotope shift measurements of mercury $^1S_0 \rightarrow ^3P_1$ transition. Optics Express, 2019, 27, 11069.	3.4	17
16	High-accuracy and wide dynamic range frequency-based dispersion spectroscopy in an optical cavity. Optics Express, 2019, 27, 21810.	3.4	26
17	Cavity-Enhanced Direct Optical Frequency Comb Spectroscopy with Tooth-Width Limited Resolution. , 2019, , .		0
18	Mirror Characterization and Complex Refractive Index Measurements with Hz-level Resolution Fourier Transform Spectrometry. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Spectroscopic Investigations of Plasma Nitrocarburizing Processes with a Mid-infrared Frequency Comb. , 2018, , .		1
20	Accurate deuterium spectroscopy for fundamental studies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 41-51.	2.3	54
21	Optical Cavity Mode Measurements at Hz-Level Precision With a Comb-Based VIPA Spectrometer. , 2018, , .		0
22	Fourier-Transform Frequency Comb Cavity Mode Spectroscopy at Hz Level for Trace Gas Measurements. , 2018, , .		1
23	Line Shape Measurements of CO Using Frequency Comb Based Cavity-Enhanced Absorption Spectroscopy. , 2018, , .		0
24	Broadband cavity-enhanced molecular absorption and dispersion spectroscopy with a frequency comb-based VIPA spectrometer. , 2018, , .		0
25	Direct Mid-Infrared Frequency Comb Spectroscopy of Nitrocarburizing Plasma Processes. , 2018, , .		1
26	Application of Cavity-Enhanced Comb-Based Fourier-Transform Spectroscopy to Line Shape Study of Carbon Monoxide in Argon. , 2018, , .		0
27	Broadband and high resolution measurements of cavity loss and dispersion. Photonics Letters of Poland, 2018, 10, 48.	0.4	4
28	ELT -HIRES the High Resolution Spectrograph for the ELT: Fabry-PÃ©rots for use as calibration sources. , 2018, , .		1
29	Data analysis methods for laser frequency comb line position measurements with a Fourier transform spectrograph. , 2018, , .		1
30	Frequency combs for cavity cascades: OPO combs and graphene-coupled cavities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014003.	1.5	5
31	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
32	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
33	Ultra accurate measurements andab initio calculations of collisional effects in pure D2.. Journal of Physics: Conference Series, 2017, 810, 012042.	0.4	1
34	Phase A: calibration concepts for HIRES. Proceedings of SPIE, 2017, , .	0.8	0
35	Optical Frequency Comb Spectroscopy for Gas Metrology and Trace Gas Detection. , 2017, , .		0
36	Spectral line-shape study by cavity-enhanced complex refractive index spectroscopy. Journal of Physics: Conference Series, 2017, 810, 012007.	0.4	3

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37	Comparison of astrophysical laser frequency combs with respect to the requirements of HIRES. Proceedings of SPIE, 2017, , .	0.8	3
38	Absolute molecular transition frequencies measured by three cavity-enhanced spectroscopy techniques. Journal of Chemical Physics, 2016, 144, 214202.	3.0	37
39	Surpassing the path-limited resolution of Fourier-transform spectrometry with frequency combs. Physical Review A, 2016, 93, .	2.5	129
40	Self-referenced, accurate and sensitive optical frequency comb spectroscopy with a virtually imaged phased array spectrometer. Optics Letters, 2016, 41, 974.	3.3	18
41	VIPA Spectrometer for Accurate and Sensitive Self-Referenced Frequency Comb Spectroscopy. , 2016, , .		1
42	Optical Frequency Comb Fourier Transform Spectroscopy with Resolution beyond the Path Difference Limit. , 2016, , .		0
43	Broadband, Comb-resolved, High-Finesse Enhancement Cavity Spectrometer with Graphene Modulator. , 2015, , .		0
44	Broadband CO2 measurements with VIPA spectrometer in the near-infrared. Photonics Letters of Poland, 2015, 7, .	0.4	2