Adam J Fleisher

List of Publications by Year
in descending order

74 papers	1,232 citations	430874 18 h-index	377865 34 g-index
75 all docs	75 docs citations	75 times ranked	1023 citing authors

#	Article	IF	Citations
1	Dual-comb cavity ring-down spectroscopy. Scientific Reports, 2022, 12, 2377.	3.3	14
2	Cavity buildup dispersion spectroscopy. Communications Physics, 2021, 4, .	5.3	9
3	Near-infrared cavity ring-down spectroscopy measurements of nitrous oxide in the (4200)â†(0000) and (5000)â†(0000) bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107527.	2.3	12
4	Absolute 13C/12C isotope amount ratio for Vienna PeeDee Belemnite from infrared absorption spectroscopy. Nature Physics, 2021, 17, 889-893.	16.7	27
5	Mid-infrared interference coatings with excess optical loss below 10â€‰â€‰ppm. Optica, 2021, 8, 686.	9.3	29
6	Frequency stabilization of a quantum cascade laser by weak resonant feedback from a Fabryâ€“Perot cavity. Optics Letters, 2021, 46, 3057.	3.3	16
7	Optical feedback linear cavity enhanced absorption spectroscopy. Optics Express, 2021, 29, 26831.	3.4	14
8	Improvement of the spectroscopic parameters of the air- and self-broadened N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O and CO lines for the HITRAN2020 database applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107735.	2.3	13
9	Doppler-Free Two-Photon Cavity Ring-Down Spectroscopy of a Molecular Vibrational Overtone Transition. , 2021, , .		0
10	Radiocarbon age is just a number. Nature Physics, 2021, 17, 1432-1432.	16.7	0
11	Precision Spectroscopy of Nitrous Oxide Isotopocules with a Cross-Dispersed Spectrometer and a Mid-Infrared Frequency Comb. Analytical Chemistry, 2020, 92, 13759-13766.	6.5	10
12	Cavity ring-down spectroscopy of CO2 near Î»Â=Â2.06ÂÂµm: Accurate transition intensities for the Orbiting Carbon Observatory-2 (OCO-2) â€œstrong bandâ€• Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 252, 107104.	2.3	18
13	Doppler-free two-photon cavity ring-down spectroscopy of a nitrous oxide (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 0 2 Physical Review A, 2020, 101, .	2.5	21
14	Highâ€Accuracy Nearâ€Infrared Carbon Dioxide Intensity Measurements to Support Remote Sensing. Geophysical Research Letters, 2020, 47, e2019GL086344.	4.0	23
15	Optical Sensors and Sensing 2019: introduction to the joint feature issue. Applied Optics, 2020, 59, OSS1.	1.8	1
16	Optical Sensors and Sensing, 2019: introduction to the joint feature issue. Optics Express, 2020, 28, 19571.	3.4	0
17	Cavity ring-down spectroscopy of CO near = 2.06 Î¼m: Accurate transition intensities for the Orbiting Carbon Observatory-2 (OCO-2) "strong band". Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 252, .	2.3	0
18	Doppler-Free Two-Photon Cavity Ring-Down Spectroscopy of a Nitrous Oxide (NO) Vibrational Overtone Transition. Physical Review A, 2020, 101, .	2.5	2

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19	Twenty-Five-Fold Reduction in Measurement Uncertainty for a Molecular Line Intensity. Physical Review Letters, 2019, 123, 043001.	7.8	33
20	High-resolution cavity ring-down spectroscopy of the Î½₁ + Î½₆ combination band of methanol at 2.0 Î¼m. Journal of Chemical Physics, 2019, 151, 234202.	3.0	3
21	Dual electro-optic frequency comb spectroscopy using pseudo-random modulation. Optics Letters, 2019, 44, 4415.	3.3	25
22	Simultaneous DIAL, IPDA and point sensor measurements of the greenhouse gases, CO2 and H2O. , 2019, , .		0
23	Broadband Mid-Infrared Spectroscopy using a Virtually Imaged Phased Array. , 2019, , .		0
24	Light, Energy and the Environment, 2018: introduction to the joint feature issue. Optics Express, 2019, 27, A856.	3.4	1
25	Light, Energy and the Environment, 2018: introduction to the joint feature issue. Applied Optics, 2019, 58, LEE1.	1.8	0
26	High-accuracy 12C16O2 line intensities in the 2ÂÂµm wavelength region measured by frequency-stabilized cavity ring-down spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 367-377.	2.3	18
27	Precision spectroscopy of H¹³CN using a free-running, all-fiber dual electro-optic frequency comb system. Optics Letters, 2018, 43, 1407.	3.3	33
28	Quantitative modeling of complex molecular response in coherent cavity-enhanced dual-comb spectroscopy. Journal of Molecular Spectroscopy, 2018, 352, 26-35.	1.2	12
29	Accurate optical measurements of stable and radioactive carbon isotopologues of CO2. , 2018, , .		0
30	A variable-temperature cavity ring-down spectrometer with application to line shape analysis of CO2 spectra in the 1600Ânm region. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	25
31	Optical Measurement of Radiocarbon below Unity Fraction Modern by Linear Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 4550-4556.	4.6	52
32	First-Generation Linear Absorption Spectrometer for the Optical Trace-Detection of Radiocarbon. , 2017, , .		0
33	Multiheterodyne Spectroscopy Using Multi-frequency Combs. , 2017, , .		1
34	Towards the Robust Trace Detection of Radiocarbon via Linear Absorption Spectroscopy. , 2017, , .		0
35	Rapid Frequency Comb Spectroscopy from 4.4 Âµm to 4.7 Âµm using a Virtually Imaged Phased Array. , 2017, , .		0
36	Broadband Cavity-Enhanced Precision Molecular Spectroscopy using Electro-optic Frequency Combs. , 2017, , .		0

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37	Multiplexed sub-Doppler spectroscopy with an optical frequency comb. Physical Review A, 2016, 94, .	2.5	53
38	Ultra-sensitive cavity ring-down spectroscopy in the mid-infrared spectral region. Optics Letters, 2016, 41, 1612.	3.3	27
39	Coherent cavity-enhanced dual-comb spectroscopy. Optics Express, 2016, 24, 10424.	3.4	84
40	Precision interferometric measurements of mirror birefringence in high-finesse optical resonators. Physical Review A, 2016, 93, .	2.5	27
41	High-precision Measurements of Mid-Infrared Supermirror Birefringence. , 2016, , .		0
42	Precision Doppler-broadened and Sub-Doppler Absorption Spectroscopy using Optical Frequency Comb Generators. , 2016, , .		0
43	Coherent Multiheterodyne Spectroscopy using Optical Frequency Comb Generators. , 2016, , .		0
44	OPTICAL MEASUREMENTS OF 14CO2 USING CAVITY RING-DOWN SPECTROSCOPY. , 2016, , .		0
45	Optical Frequency Comb Generators for Trace Gas Sensing. , 2015, , .		0
46	Multiheterodyne Infrared Spectroscopy with Pitch-agile Optical Frequency Comb Generators. , 2015, , .		1
47	Low Power Integrated Path Differential Absorption Lidar Detection of CO2, CH4 and H2O over a 5.5 km Path using a Waveform Driven EO Sideband Spectrometer. , 2015, , .		0
48	QUANTUM-NOISE-LIMITED CAVITY RING-DOWN SPECTROSCOPY IN THE MID-INFRARED. , 2015, , .		0
49	ULTRASENSITIVE, HIGH ACCURACY MEASUREMENTS OF TRACE GAS SPECIES. , 2015, , .		0
50	COLLISION-DEPENDENT LINE AREAS IN THE a1âˆ†gâ†•X3Î£âˆ’g BAND OF MOLECULAR OXYGEN. , 2015, , .		0
51	Rapid scanning cavity ring-down spectroscopy at the quantum noise limit. , 2014, , .		0
52	Multiheterodyne spectroscopy with optical frequency combs generated from a continuous-wave laser. Optics Letters, 2014, 39, 2688.	3.3	142
53	Quantum-noise-limited cavity ring-down spectroscopy. Applied Physics B: Lasers and Optics, 2014, 115, 149-153.	2.2	31
54	Mid-Infrared Time-Resolved Frequency Comb Spectroscopy of Transient Free Radicals. Journal of Physical Chemistry Letters, 2014, 5, 2241-2246.	4.6	110

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55	Frequency-Stabilized Cavity Ring-Down Spectroscopy in the Mid-Infrared. , 2014, , .		0
56	Time Resolved Frequency Comb Spectroscopy for Studying Gas Phase Free Radical Kinetics. , 2014, , .		0
57	Mode-Resolved Absorption and Dispersion Measurements in High-Finesse Cavities. , 2014, , .		0
58	TIME-RESOLVED FREQUENCY COMB SPECTROSCOPY OF TRANSIENT FREE RADICALS IN THE MID-INFRARED SPECTRAL REGION. , 2014, , .		0
59	Cavity-enhanced optical frequency comb spectroscopy in the mid-infrared application to trace detection of hydrogen peroxide. Applied Physics B: Lasers and Optics, 2013, 110, 163-175.	2.2	134
60	High-Resolution Electronic Spectroscopy of the Doorway States to Intramolecular Charge Transfer. Journal of Physical Chemistry B, 2013, 117, 4231-4240.	2.6	14
61	Fourier Transform Direct Frequency Comb Spectroscopy in the Near- and Mid-Infrared. , 2013, , .		0
62	Mid-infrared virtually imaged phased array spectrometer for rapid and broadband trace gas detection. Optics Letters, 2012, 37, 3285.	3.3	102
63	Experimentally measured permanent dipoles induced by hydrogen bonding. The Stark spectrum of indoleâ€“NH3. Physical Chemistry Chemical Physics, 2012, 14, 8990.	2.8	6
64	Excited-State Proton Transfer in syn-2-(2â€²-Pyridyl)pyrrole Occurs on the Nanosecond Time Scale in the Gas Phase. Journal of Physical Chemistry Letters, 2011, 2, 2114-2117.	4.6	10
65	Highâ€Resolution Electronic Spectroscopy Studies of metaâ€Aminobenzoic Acid in the Gas Phase Reveal the Origins of its Solvatochromic Behavior. ChemPhysChem, 2011, 12, 1808-1815.	2.1	3
66	Inside Cover: High-Resolution Electronic Spectroscopy Studies of meta-Aminobenzoic Acid in the Gas Phase Reveal the Origins of its Solvatochromic Behavior (ChemPhysChem 10/2011). ChemPhysChem, 2011, 12, 1774-1774.	2.1	0
67	Flickering dipoles in the gas phase: Structures, internal dynamics, and dipole moments of Î²-naphthol-H2O in its ground and excited electronic states. Journal of Chemical Physics, 2011, 134, 114304.	3.0	9
68	Exploring single and double proton transfer processes in the gas phase: A high resolution electronic spectroscopy study of 5-fluorosalicylic acid. Journal of Chemical Physics, 2011, 134, 084310.	3.0	5
69	Measuring the conformational properties of 1,2,3,6,7,8-hexahydropyrene and its van der Waals complexes. Journal of Chemical Physics, 2010, 133, 024302.	3.0	0
70	Use of⁷³Ge NMR Spectroscopy and X-ray Crystallography for the Study of Electronic Interactions in Substituted Tetrakis(phenyl)-, -(phenoxy)-, and -(thiophenoxy)germanes. Organometallics, 2010, 29, 582-590.	2.3	16
71	Stark-Effect Studies of 1-Phenylpyrrole in the Gas Phase. Dipole Reversal upon Electronic Excitation. Journal of Physical Chemistry Letters, 2010, 1, 2017-2019.	4.6	8
72	Charge transfer by electronic excitation: Direct measurement by high resolution spectroscopy in the gas phase. Journal of Chemical Physics, 2009, 131, 211101.	3.0	15

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73	Use of⁷³Ge NMR Spectroscopy for the Study of Electronic Interactions. Inorganic Chemistry, 2008, 47, 10765-10770.	4.0	13
74	1H,13C, and73Ge NMR spectral analysis of substituted aryltrimethylgermanes. Magnetic Resonance in Chemistry, 2006, 44, 191-194.	1.9	10