Peter Cermak

List of Publications by Year
in descending order

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38	589	687363 13	642732 23
papers	citations	h-index	g-index

38	38	38	735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The ammonia absorption spectrum between 3900 and 4700 cmâ¯1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107961.	2.3	5
2	Hydrogen emission from meteors and meteorites: mapping traces of H2O molecules and organic compounds in small Solar system bodies. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3982-3992.	4.4	6
3	The absorption spectrum of ammonia between 5650 and 6350 cmâ¯1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 258, 107334.	2.3	6
4	Vacuum breakdown in microgaps between stainless-steel electrodes powered by direct-current and pulsed electric field. Vacuum, 2021, 191, 110327.	3.5	4
5	Accurate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msup><mml:mrow /><mml:mn>14</mml:mn></mml:msup></mml:math>NH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math> line-list for the 2.3Â<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si59.svg"><mml:mrow><mml:mi>Î¼</mml:mi>	2.3	5
6	The update of the line positions and intensities in the line list of carbon dioxide for the HITRAN2020 spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107896.	2.3	11
7	Spectroscopic Measurements of Methane Solidâ€“Gas Equilibrium Clapeyron Curve between 40 and 77 K. Journal of Physical Chemistry A, 2019, 123, 3518-3534.	2.5	1
8	Untangling the Herman-infrared spectra of nitrogen atmospheric-pressure dielectric-barrier discharge. Plasma Sources Science and Technology, 2018, 27, 055009.	3.1	4
9	High sensitivity CRDS of CO 2 in the 1.74â€¯Âµm transparency window. A validation test for the spectroscopic databases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 207, 95-103.	2.3	17
10	The 13CO2 absorption spectrum by CRDS near 1.74â€¯Âµm. Journal of Molecular Spectroscopy, 2018, 354, 54-59.	1.2	11
11	Analysis and theoretical modeling of the 18O enriched carbon dioxide spectrum by CRDS near 1.74â€¯Âµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 73-85.	2.3	12
12	The absorption spectrum of water vapor in the 2.2 Î¼m transparency window: High sensitivity measurements and spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 407-416.	2.3	9
13	Monitoring active species in an atmospheric pressure dielectricâ€barrier discharge: Observation of the Hermanâ€infrared system. Contributions To Plasma Physics, 2017, 57, 67-75.	1.1	3
14	Optimization of data retrieval process for spectroscopic CO₂ isotopologue ratio measurements. Laser Physics, 2017, 27, 055701.	1.2	1
15	The CO2 absorption continuum by high pressure CRDS in the 1.74 Âµm window. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 530-537.	2.3	10
16	First laboratory detection of an absorption line of the first overtone electric quadrupolar band of N2 by CRDS near 2.2 Î¼m. Chemical Physics Letters, 2017, 668, 90-94.	2.6	10
17	The CO2 absorption spectrum in the 2.3 Âµm transparency window by high sensitivity CRDS: (II) Self-absorption continuum. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 38-43.	2.3	15
18	Design and properties of high-power highly-coherent single-frequency VECSEL emitting in the near- to mid-IR for photonic applications. , 2017, , .		0

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19	The CO2 absorption spectrum in the 2.3 Âµm transparency window by high sensitivity CRDS: (I) Rovibrational lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 233-240.	2.3	10
20	CRDS with a VECSEL for broad-band high sensitivity spectroscopy in the 2.3 Î¼m window. Review of Scientific Instruments, 2016, 87, 083109.	1.3	17
21	A new list of line positions and strengths of 15NH3 in the range 6369â€“6578 cmâ¯1 at room temperature. Journal of Molecular Spectroscopy, 2016, 326, 122-129.	1.2	3
22	Continuous measurements of isotopic composition of water vapour on the East Antarctic Plateau. Atmospheric Chemistry and Physics, 2016, 16, 8521-8538.	4.9	47
23	The HD spectrum near 2.3 Î¼m by CRDS-VECSEL: Electric quadrupole transition and collision-induced absorption. Journal of Molecular Spectroscopy, 2016, 326, 9-16.	1.2	19
24	Nuclear Spin Conversion in CH₄: A Multichannel Relaxation Mechanism. Journal of Physical Chemistry A, 2016, 120, 173-182.	2.5	8
25	The self- and foreign-absorption continua of water vapor by cavity ring-down spectroscopy near 2.35 Î¼m. Physical Chemistry Chemical Physics, 2015, 17, 17762-17770.	2.8	27
26	A review of the development of portable laser induced breakdown spectroscopy and its applications. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 269-287.	2.9	135
27	Spectroscopy of 14NH3 and 15NH3 in the 2.3Î¼m spectral range with a new VECSEL laser source. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 137, 13-22.	2.3	24
28	Spectroscopy of ammonia in the range 6626â€“6805Âcm^{â¯1}: using temperature dependence towards a complete list of lower state energy transitions. Molecular Physics, 2014, 112, 2476-2485.	1.7	21
29	Observation of methane nuclear spin isomers in gas phase at low temperature. Journal of Molecular Spectroscopy, 2012, 279, 37-43.	1.2	5
30	New progress in spectroscopy of ammonia in the infrared <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0018.gif" overflow="scroll"><mml:mn>1.5</mml:mn><mml:mspace width="0.25em" /><mml:mi mathvariant="normal">Î¼</mml:mi><mml:mi mathvariant="normal">m</mml:mi></mml:math> range using evolution of spectra from 300 K down to 122 K. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1084-1091.	2.3	22
31	Design and properties of high-power highly coherent single-frequency VECSEL emitting in the near- to mid-IR for photonic applications. Proceedings of SPIE, 2011, , .	0.8	7
32	Electronic DFB laser switching for continuous wave cavity ring-down spectroscopy. Electronics Letters, 2010, 46, 523.	1.0	2
33	Optical-Feedback Cavity-Enhanced Absorption Spectroscopy Using a Short-Cavity Vertical-External-Cavity Surface-Emitting Laser. IEEE Photonics Technology Letters, 2010, 22, 1607-1609.	2.5	13
34	Cavity ring-down spectroscopy of singlet oxygen generated in microwave plasma. Chemical Physics Letters, 2009, 467, 233-236.	2.6	19
35	Cavity-enhanced absorption spectroscopy with a red LED source for NOx trace analysis. Applied Physics B: Lasers and Optics, 2008, 91, 195-201.	2.2	59
36	Extended Continuous Tuning of a Single-Frequency Diode-Pumped Vertical-External-Cavity Surface-Emitting Laser at 2.3 mum. IEEE Photonics Technology Letters, 2008, 20, 1947-1949.	2.5	16

#	Article	IF	Citations
37	Cavity ring-down spectroscopy using telecom diode lasers. Proceedings of SPIE, 2008, , .	0.8	0
38	ICLAS-VeCSEL and FTS spectroscopies of C2H2 between 9000 and 9500cmâˆ’1. Chemical Physics Letters, 2005, 403, 287-292.	2.6	5