Carlos E Manzanares

List of Publications by Year
in descending order

31	194	1163117 8	1125743 13
papers	citations	h-index	g-index

31	31	31	155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vibrational Spectroscopy of C-H Bonds of C2H4 Liquid and C2H4 in Liquid Argon Solutions. The Journal of Physical Chemistry, 1994, 98, 4800-4808.	2.9	32
2	Thermal Lens Spectroscopy in Liquid Argon Solutions:Â (Î”ν= 6) Câˆ’H Vibrational Overtone Absorption of Methaneâ€. Journal of Physical Chemistry A, 2006, 110, 1594-1599.	2.5	17
3	Low temperature cell for cavity ring down absorption studies. Review of Scientific Instruments, 2006, 77, 073107.	1.3	15
4	Phase shift cavity ring down and FT-VIS measurements of Câ€“H (Î”ν=5) vibrational overtone absorptions. Chemical Physics Letters, 2004, 394, 25-31.	2.6	14
5	Overtone spectroscopy of isobutane at cryogenic temperatures. Chemical Physics, 1995, 190, 247-259.	1.9	13
6	Phase shift cavity ring down at low temperatures: Vibrationâ€“rotation overtone absorption of Hâ€“D (Î”ν= 4) at 297 and 105 K. Chemical Physics Letters, 2006, 418, 576-580.	2.6	13
7	Cavity ring down absorption at low temperatures: Câ€“H spectra (Î”Ï… = 1â€“6) of CH3D and Câ€“H overtones (Î”Ï…=) Tj ETQq1 1 0.78	1.7	12
8	Unsaturated hydrocarbons in the lakes of Titan: Benzene solubility in liquid ethane and methane at cryogenic temperatures. Planetary and Space Science, 2014, 99, 28-35.	1.7	9
9	Vibrational spectroscopy of nonequivalent Cî—¸H bonds in liquid cis- and trans-3-hexene. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1139-1152.	0.1	8
10	Vibrational overtone spectroscopy of CH2D2 in liquid argon solutions. Chemical Physics, 1996, 209, 79-90.	1.9	7
11	Overtone spectroscopy and thermal lens detection limit of methane in cryo-solutions. Molecular Physics, 2008, 106, 909-920.	1.7	6
12	Thermal lens detection of one and twoâ€color laser excitation of benzene in cryogenic liquid solutions. Journal of Raman Spectroscopy, 2015, 46, 716-721.	2.5	6
13	Thermal Lens Spectroscopy in Cryogenic Solutions:Â Analysis and Comparison of Intensities in CH4â^’N2and CH4â^’Ar Liquid Solutions. Journal of Physical Chemistry A, 2006, 110, 10427-10434.	2.5	5
14	Vibrational Overtone Spectroscopy of Saturated Hydrocarbons Dissolved in Liquefied Ar, Kr, Xe, and N₂. Journal of Physical Chemistry A, 2008, 112, 1730-1740.	2.5	5
15	Excitation, emission, and synchronous fluorescence for astrochemical applications: Experiments and computer simulations of synchronous spectra of polycyclic aromatic hydrocarbons and their mixtures. Icarus, 2021, 370, 114689.	2.5	5
16	Cis- and trans-3-hexene: infrared spectrum in liquid argon solution, ab initio calculations of equilibrium geometry, normal coordinate analysis, and vibrational assignments. Journal of Molecular Structure, 1998, 440, 265-288.	3.6	4
17	Vibrational Overtone Spectroscopy, Energy Levels, and Intensities of (CH₃)₃Câ€”Câ‰¡Câ€”H. Journal of Physical Chemistry A, 2012, 116, 2071-2079.	2.5	4
18	Cavity Ring Down and Fourier Transform Infrared Spectroscopy at Low Temperatures (84â^’297 K): Fermi Resonance and Intensities of the Câ^’H Fundamental and Overtone (Î”Ï… = 1â^’6) Transitions of CHD3. Journal of Physical Chemistry A, 2010, 114, 7918-7927.	2.5	3

#	Article	IF	Citations
19	Photothermal Cï£¿H vibrational overtone detection by twoâ€•color laser absorption. Journal of Raman Spectroscopy, 2019, 50, 1339-1345.	2.5	3
20	Phase shift cavity ring down and Fourier transform infrared measurements of Câ€“H vibrational transitions, energy levels, and intensities of (CH3)3Siâ€“Câ‰¡Câ€“H. Journal of Chemical Physics, 2013, 139, 014311.	3.0	2
21	Nonlinear thermal lens signal of the (Î”Ï…Â=Â6) Câ€“H vibrational overtone of C6H6 in liquid solutions of n-C6H14 and CCl4. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	2
22	Cavity Ring-Down Absorption of O2 in Air as a Temperature Sensor for an Open and a Cryogenic Optical Cavity. Applied Spectroscopy, 2017, 71, 847-855.	2.2	2
23	Matrix isolation FT-IR, FT-Raman spectroscopy, conformational ab initio calculations, and vibrational frequencies of meso and racemic-2,4-pentanediol. Journal of Molecular Structure, 2004, 689, 183-190.	3.6	1
24	Vibrational Câ€“H overtone spectroscopy and bond distances of butenes dissolved in liquid Xe. Journal of Molecular Structure, 2009, 935, 39-46.	3.6	1
25	Vibrational overtone spectra and interactions of C2H4 and H2CCHCH3 in liquid Kr. Vibrational Spectroscopy, 2010, 52, 69-78.	2.2	1
26	Câ€“H Infrared Absorption and Solubility of Ethylene, Propyne, 2-methyl-2-butene, and 2-methyl-1, 3-butadiene (Isoprene) in Liquid Argon Solutions. Applied Spectroscopy, 2017, 71, 2146-2153.	2.2	1
27	Description of an air temperature sensor based on O2 absorption spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 210, 245-250.	3.9	1
28	Linear and Nonlinear Thermal Lens Signal of the (Î”Î½â€‰=â€‰6) Câ€“H Vibrational Overtone of Naphthalene in Liquid Solutions of n-Hexane. Applied Spectroscopy, 2019, 73, 1380-1387.	2.2	1
29	Vibrational fundamental and overtone spectra of C2H4 in cryogenic liquid solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 234, 118274.	3.9	1
30	Ab initio excitation spectrum of the weak Heâ‹¯BF interaction. Journal of Computational Methods in Sciences and Engineering, 2012, 12, 343-351.	0.2	0
31	Infrared bands of formaldehyde dissolved in liquid krypton at cryogenic temperatures and the vibrational modes Î½1, Î½2, and Î½5 of H2CO in comets and interstellar clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 289, 108299.	2.3	0