

Carlos E Manzanares

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Infrared bands of formaldehyde dissolved in liquid krypton at cryogenic temperatures and the vibrational modes $\hat{\nu}_{1/2}^1$, $\hat{\nu}_{1/2}^2$, and $\hat{\nu}_{1/2}^5$ of H ₂ CO in comets and interstellar clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 289, 108299.	2.3	0
2	Excitation, emission, and synchronous fluorescence for astrochemical applications: Experiments and computer simulations of synchronous spectra of polycyclic aromatic hydrocarbons and their mixtures. <i>Icarus</i> , 2021, 370, 114689.	2.5	5
3	Vibrational fundamental and overtone spectra of C ₂ H ₄ in cryogenic liquid solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118274.	3.9	1
4	Photothermal C-H vibrational overtone detection by two-color laser absorption. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1339-1345.	2.5	3
5	Description of an air temperature sensor based on O ₂ absorption spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 210, 245-250.	3.9	1
6	Linear and Nonlinear Thermal Lens Signal of the $(\hat{\nu}_{1/2}^1 \oplus \hat{\nu}_{1/2}^6)$ C-H Vibrational Overtone of Naphthalene in Liquid Solutions of n-Hexane. <i>Applied Spectroscopy</i> , 2019, 73, 1380-1387.	2.2	1
7	Cavity Ring-Down Absorption of O ₂ in Air as a Temperature Sensor for an Open and a Cryogenic Optical Cavity. <i>Applied Spectroscopy</i> , 2017, 71, 847-855.	2.2	2
8	C-H Infrared Absorption and Solubility of Ethylene, Propyne, 2-methyl-2-butene, and 2-methyl-1,3-butadiene (Isoprene) in Liquid Argon Solutions. <i>Applied Spectroscopy</i> , 2017, 71, 2146-2153.	2.2	1
9	Nonlinear thermal lens signal of the $(\hat{\nu}_{1/2}^1 \oplus \hat{\nu}_{1/2}^6)$ C-H vibrational overtone of C ₆ H ₆ in liquid solutions of n-C ₆ H ₁₄ and CCl ₄ . <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	2
10	Thermal lens detection of one and two-color laser excitation of benzene in cryogenic liquid solutions. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 716-721.	2.5	6
11	Unsaturated hydrocarbons in the lakes of Titan: Benzene solubility in liquid ethane and methane at cryogenic temperatures. <i>Planetary and Space Science</i> , 2014, 99, 28-35.	1.7	9
12	Phase shift cavity ring down and Fourier transform infrared measurements of C-H vibrational transitions, energy levels, and intensities of (CH ₃) ₃ Si-C-H. <i>Journal of Chemical Physics</i> , 2013, 139, 014311.	3.0	2
13	Vibrational Overtone Spectroscopy, Energy Levels, and Intensities of (CH ₃) ₃ Si-C-H. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2071-2079.	2.5	4
14	Ab initio excitation spectrum of the weak He ⁺ -BF interaction. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2012, 12, 343-351.	0.2	0
15	Vibrational overtone spectra and interactions of C ₂ H ₄ and H ₂ CCHCH ₃ in liquid Kr. <i>Vibrational Spectroscopy</i> , 2010, 52, 69-78.	2.2	1
16	Cavity Ring Down and Fourier Transform Infrared Spectroscopy at Low Temperatures (84~297 K): Fermi Resonance and Intensities of the C-H Fundamental and Overtone ($\hat{\nu}_{1/2}^1 \oplus \hat{\nu}_{1/2}^6$) Transitions of CHD ₃ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 7918-7927.	2.5	3
17	Vibrational C-H overtone spectroscopy and bond distances of butenes dissolved in liquid Xe. <i>Journal of Molecular Structure</i> , 2009, 935, 39-46.	3.6	1
18	Cavity ring down absorption at low temperatures: C-H spectra ($\hat{\nu}_{1/2}^1 \oplus \hat{\nu}_{1/2}^6$) of CH ₃ D and C-H overtones ($\hat{\nu}_{1/2}^1 \oplus \hat{\nu}_{1/2}^6$) of CH ₃ and C-H overtones ($\hat{\nu}_{1/2}^1 \oplus \hat{\nu}_{1/2}^6$) of CH ₃ D. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 100-104.	1.7	0

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19	Overtone spectroscopy and thermal lens detection limit of methane in cryo-solutions. <i>Molecular Physics</i> , 2008, 106, 909-920.	1.7	6
20	Vibrational Overtone Spectroscopy of Saturated Hydrocarbons Dissolved in Liquefied Ar, Kr, Xe, and N ₂ . <i>Journal of Physical Chemistry A</i> , 2008, 112, 1730-1740.	2.5	5
21	Thermal Lens Spectroscopy in Liquid Argon Solutions: $\hat{\nu}(\nu=6)$ C-H Vibrational Overtone Absorption of Methane. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1594-1599.	2.5	17
22	Thermal Lens Spectroscopy in Cryogenic Solutions: Analysis and Comparison of Intensities in CH ₄ -N ₂ and CH ₄ -Ar Liquid Solutions. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10427-10434.	2.5	5
23	Phase shift cavity ring down at low temperatures: Vibration-rotation overtone absorption of H ₂ D ($\hat{\nu}(\nu=4)$) at 297 and 105 K. <i>Chemical Physics Letters</i> , 2006, 418, 576-580.	2.6	13
24	Low temperature cell for cavity ring down absorption studies. <i>Review of Scientific Instruments</i> , 2006, 77, 073107.	1.3	15
25	Matrix isolation FT-IR, FT-Raman spectroscopy, conformational ab initio calculations, and vibrational frequencies of meso and racemic-2,4-pentanediol. <i>Journal of Molecular Structure</i> , 2004, 689, 183-190.	3.6	1
26	Phase shift cavity ring down and FT-VIS measurements of C-H ($\hat{\nu}(\nu=5)$) vibrational overtone absorptions. <i>Chemical Physics Letters</i> , 2004, 394, 25-31.	2.6	14
27	Cis- and trans-3-hexene: infrared spectrum in liquid argon solution, ab initio calculations of equilibrium geometry, normal coordinate analysis, and vibrational assignments. <i>Journal of Molecular Structure</i> , 1998, 440, 265-288.	3.6	4
28	Vibrational overtone spectroscopy of CH ₂ D ₂ in liquid argon solutions. <i>Chemical Physics</i> , 1996, 209, 79-90.	1.9	7
29	Overtone spectroscopy of isobutane at cryogenic temperatures. <i>Chemical Physics</i> , 1995, 190, 247-259.	1.9	13
30	Vibrational Spectroscopy of C-H Bonds of C ₂ H ₄ Liquid and C ₂ H ₄ in Liquid Argon Solutions. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4800-4808.	2.9	32
31	Vibrational spectroscopy of nonequivalent C-H bonds in liquid cis- and trans-3-hexene. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993, 49, 1139-1152.	0.1	8