# Claudine CrÃ©pin

List of Publications by Year
in descending order

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| 88 | 982 | 471061 | 580395 |
|---|---|---|---|
| papers | citations | 17 h-index | 25 g-index |

| 89 | 89 | 89 | 782 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Infra-red and Raman spectroscopy of free-base and zinc phthalocyanines isolated in matrices. Physical Chemistry Chemical Physics, 2010, 12, 10406. | 1.3 | 49 |
| 2 | A crossed-beam experimental study of the Cs(7p) + H2 â†' CsH + H reaction: From the fifth to the first potential surface without energy loss. Chemical Physics Letters, 1984, 110, 395-399. | 1.2 | 41 |
| 3 | Infrared spectroscopy of aniline (C6H5NH2) and its cation in a cryogenic argon matrix. Chemical Physics Letters, 2001, 338, 130-136. | 1.2 | 40 |
| 4 | Investigations of the Optical Spectroscopy of Atomic Sodium Isolated in Solid Argon and Krypton: Experiments and Simulations.. Journal of Physical Chemistry A, 2010, 114, 3011-3024. | 1.1 | 37 |
| 5 | Visible luminescence spectroscopy of free-base and zinc phthalocyanines isolated in cryogenic matrices. Physical Chemistry Chemical Physics, 2011, 13, 17543. | 1.3 | 37 |
| 6 | Acetylacetone in hydrogen solids: IR signatures of the enol and keto tautomers and UV induced tautomerization. Chemical Physics Letters, 2011, 504, 142-147. | 1.2 | 36 |
| 7 | Spectra and relaxation paths of Hg(3P1) in rare gas matrices. Journal of Chemical Physics, 1992, 97, 4772-4780. | 1.2 | 31 |
| 8 | Ar+ laser-induced fluorescence spectra of Cs2: The E1Î£u+ and (1) 1Îg electronic states. Journal of Molecular Spectroscopy, 1984, 107, 28-47. | 0.4 | 23 |
| 9 | A simulation of naphthalene matrix isolation: comparison with experiments. Chemical Physics, 2001, 272, 243-258. | 0.9 | 23 |
| 10 | Electronic spectra and proton transfer in the phenol/(NH3)n clusters in argon matrices. Chemical Physics, 1991, 156, 281-291. | 0.9 | 22 |
| 11 | Intrinsic lifetime of metastable excited C4H2: implications for the photochemistry of C4H2 in Titan's atmosphere. Planetary and Space Science, 2003, 51, 847-852. | 0.9 | 22 |
| 12 | Electronic absorption and phosphorescence of cyanodiacetylene. Journal of Chemical Physics, 2010, 133, 074310. | 1.2 | 22 |
| 13 | Time Domain Investigation on Vibrational Dephasing and Spectral Diffusion in CO-Doped SolidN2. Physical Review Letters, 2000, 85, 964-967. | 2.9 | 20 |
| 14 | Laser-induced fluorescence of CsH: The X1Î£+ state dissociation energy. Chemical Physics Letters, 1984, 112, 10-14. | 1.2 | 18 |
| 15 | IR spectra and vibrational dephasing of the CO stretching mode in W(CO)6 doped cryogenic matrices. Chemical Physics, 2007, 341, 207-217. | 0.9 | 18 |
| 16 | Infrared study of glycolaldehyde isolated in parahydrogen matrix. Journal of Chemical Physics, 2010, 133, 094502. | 1.2 | 18 |
| 17 | Vibrational dynamics of CO stretching in W(CO)6-doped hybrid xerogels from 5 K to room temperature with the CLIO-FEL. Journal of Luminescence, 2000, 86, 363-370. | 1.5 | 17 |
| 18 | Dephasing of intersublevel polarizations in InAs/GaAs self-assembled quantum dots. Physical Review B, 2002, 66, . | 1.1 | 17 |

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|---|---|---|---|
| 19 | UV-induced growth of cyanopolyyne chains in cryogenic solids. Physical Chemistry Chemical Physics, 2011, 13, 16780. | 1.3 | 17 |
| 20 | Photochemistry of acetylacetone isolated in parahydrogen matrices upon 266 nm irradiation. Physical Chemistry Chemical Physics, 2012, 14, 3450. | 1.3 | 17 |
| 21 | Electronic to vibrational energy transfer and relaxation in matrices. I. Hg in N2 matrix. Chemical Physics, 1987, 111, 169-182. | 0.9 | 15 |
| 22 | Rare-gas matrix as an infinite rare-gas cluster: a spectroscopic study of 9,10-dichloroanthracene in argon matrices. Chemical Physics Letters, 1990, 170, 446-450. | 1.2 | 15 |
| 23 | Site effect on radiative and non-radiative relaxation paths of naphthalene in low-temperature matrices. Chemical Physics, 2001, 272, 227-241. | 0.9 | 15 |
| 24 | Nuclear Spin Conversion to Probe the Methyl Rotation Effect on Hydrogenâ€Bond and Vibrational Dynamics. Angewandte Chemie - International Edition, 2012, 51, 6947-6950. | 7.2 | 15 |
| 25 | Synthesis and spectroscopy of cyanotriacetylene (HC7N) in solid argon. Journal of Chemical Physics, 2014, 140, 044329. | 1.2 | 15 |
| 26 | Spectroscopy and relaxation paths of higher electronic states of Hg atoms and Hg2 molecules in rare-gas matrices. Chemical Physics Letters, 1992, 197, 467-475. | 1.2 | 14 |
| 27 | Vibrational dynamics of deuterium chloride in solid nitrogen probed by linear and nonlinear spectroscopy. Journal of Chemical Physics, 2003, 118, 9582-9588. | 1.2 | 14 |
| 28 | The first two excited 1Î£g+ states of Cs2. Chemical Physics Letters, 1984, 106, 162-165. | 1.2 | 13 |
| 29 | Electronic relaxation of aniline in argon matrix: A site selective laser spectroscopy. Journal of Chemical Physics, 2002, 116, 4993. | 1.2 | 13 |
| 30 | A site-selective spectroscopy of naphthalene and quinoline in TEOS/MTEOS xerogels. Physical Chemistry Chemical Physics, 2005, 7, 1933-1938. | 1.3 | 13 |
| 31 | The C3Nâ¯ anion: First detection of its electronic luminescence in rare gas solids. Journal of Chemical Physics, 2008, 128, 164304. | 1.2 | 13 |
| 32 | Low-temperature phosphorescence of dicyanoacetylene in rare gas solids. Low Temperature Physics, 2012, 38, 723-726. | 0.2 | 13 |
| 33 | Double deuterated acetylacetone in neon matrices: infrared spectroscopy, photoreactivity and the tunneling process. Physical Chemistry Chemical Physics, 2016, 18, 20713-20725. | 1.3 | 13 |
| 34 | Laser-induced infrared fluorescence of Cs2. Chemical Physics Letters, 1983, 98, 608-610. | 1.2 | 12 |
| 35 | Quantum beats induced by spectral diffusion between independent two-level systems. Physical Review A, 2003, 67, . | 1.0 | 11 |
| 36 | Photochemistry of glycolaldehyde in cryogenic matrices. Journal of Chemical Physics, 2014, 140, 224319. | 1.2 | 11 |

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| 37 | Cryogenic Photochemical Synthesis and Electronic Spectroscopy of Cyanotetracetylene. Journal of Physical Chemistry A, 2017, 121, 7374-7384. | 1.1 | 11 |
| 38 | Low temperature Raman spectra of cyanobutadiyne (HC5N). Vibrational Spectroscopy, 2012, 62, 268-272. | 1.2 | 10 |
| 39 | 2-Chloromalonaldehyde, a model system of resonance-assisted hydrogen bonding: vibrational investigation. Physical Chemistry Chemical Physics, 2018, 20, 12888-12897. | 1.3 | 10 |
| 40 | Vibrational structure in atomic emission spectra: Hg atoms in molecular matrices. Journal of Chemical Physics, 1997, 107, 2205-2214. | 1.2 | 9 |
| 41 | Mechanism of Hg(3P1) relaxation in nitrogen matrices. II. Experimental results and interpretation. Chemical Physics, 1989, 136, 1-14. | 0.9 | 8 |
| 42 | Amplified emission of phthalocyanine isolated in cryogenic matrices. Physical Chemistry Chemical Physics, 2008, 10, 2167. | 1.3 | 8 |
| 43 | Vibrational Perturbations of W(CO)<sub>6</sub> Trapped in a Molecular Lattice Probed by Linear and Nonlinear Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 8145-8156. | 1.1 | 8 |
| 44 | Large amplitude motions within molecules trapped in solid parahydrogen. Faraday Discussions, 2018, 212, 499-515. | 1.6 | 8 |
| 45 | Co vibrational stimulated emission in a Hg-Co-N2 matrix. Optics Communications, 1986, 58, 100-102. | 1.0 | 7 |
| 46 | Spectra and dynamics of the b 4Î£â^' state of NO in Ar and Kr matrices. Chemical Physics Letters, 1989, 164, 50-56. | 1.2 | 7 |
| 47 | Mechanism of Hg(3P) relaxation in nitrogen matrices. I. Theoretical study of HgN2. Chemical Physics, 1989, 133, 377-393. | 0.9 | 7 |
| 48 | Probing molecular site structure in low-temperature matrices: An EXAFS study of carbonyl sulfide in solid argon. Journal of Chemical Physics, 1998, 109, 7945-7948. | 1.2 | 7 |
| 49 | Vibrational Dynamics in Molecular Condensed Phases With The Clio Free Electron Laser. Laser Chemistry, 1999, 19, 65-69. | 0.5 | 7 |
| 50 | Influence of a Weak Hydrogen Bond on Vibrational Coherence Probed by Photon Echoes in DCl Dimer Trapped in Solid Nitrogen. Journal of Physical Chemistry A, 2005, 109, 4873-4880. | 1.1 | 7 |
| 51 | Unveiled optical properties of tetrapyrollic pigments in cryogenic environments. Low Temperature Physics, 2010, 36, 451-457. | 0.2 | 7 |
| 52 | Formation and Spectroscopy of Dicyanotriacetylene (NC<sub>8</sub>N) in Solid Kr. Journal of Physical Chemistry A, 2015, 119, 2701-2708. | 1.1 | 7 |
| 53 | Low Temperature Synthesis and Phosphorescence of Methylcyanotriacetylene. Journal of Physical Chemistry A, 2018, 122, 89-99. | 1.1 | 7 |
| 54 | Phosphorescence excitation mapping and vibrational spectroscopy of HC9N and HC11N cyanopolyynes in organic solvents. Journal of Molecular Structure, 2020, 1214, 128201. | 1.8 | 7 |

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|---|---|---|---|
| 55 | Electronic to vibrational energy transfer and relaxation in matrices. II. Hg in mixed N2/Kr matrices. Chemical Physics, 1987, 111, 183-191. | 0.9 | 6 |
| 56 | Spectra and relaxation of Hg atoms and molecules in low temperature matrices. I. CH4, CD4, and mixed CH4/Ar, CD4/Ar matrices. Journal of Chemical Physics, 1994, 100, 5459-5466. | 1.2 | 6 |
| 57 | Spectra and relaxation of Hg atoms and molecules in low temperature matrices. III. Hgm and HgmXn (X=H2O and NH3) systems in rare gas matrices. Journal of Chemical Physics, 1994, 100, 5475-5480. | 1.2 | 6 |
| 58 | Spectra and relaxation of Hg atoms and molecules in low temperature matrices. II. H2O/Ar and NH3/Ar matrices. Journal of Chemical Physics, 1994, 100, 5467-5474. | 1.2 | 6 |
| 59 | Infrared photon echo experiments on small molecules isolated in condensed phase. Journal of Luminescence, 2001, 94-95, 575-578. | 1.5 | 6 |
| 60 | Photodissociation of Dimethylmercury in Argon Matrixes by 193 and 248 nm Laser Irradiation. Journal of Physical Chemistry A, 1998, 102, 4014-4020. | 1.1 | 4 |
| 61 | EXAFS studies of the trapping site structure for molecules isolated in cryogenic matrices. Low Temperature Physics, 2000, 26, 691-698. | 0.2 | 4 |
| 62 | Exploring vibrational coherence of molecular systems with simultaneous excitation of close frequencies using the CLIO-FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 636-640. | 0.7 | 4 |
| 63 | Environment effect on the vibrational dephasing of HCl, and HCl containing complexes, probed in van der Waals solids. Chemical Physics Letters, 2005, 416, 121-127. | 1.2 | 4 |
| 64 | Vibrational spectroscopy and dynamics of W(CO)6 in solid methane as a probe of lattice properties. Journal of Chemical Physics, 2016, 145, 214306. | 1.2 | 4 |
| 65 | A HElium NanoDroplet Isolation (HENDI) investigation of the weak hydrogen bonding in the propyne dimer (CH3CCH)2. Physical Chemistry Chemical Physics, 2018, 20, 28658-28666. | 1.3 | 4 |
| 66 | Molecules in confinement in clusters, quantum solvents and matrices: general discussion. Faraday Discussions, 2018, 212, 569-601. | 1.6 | 4 |
| 67 | Matrix Isolation Spectroscopy and Nuclear Spin Conversion of Propyne Suspended in Solid Parahydrogen. Journal of Physical Chemistry A, 2020, 124, 4471-4483. | 1.1 | 4 |
| 68 | Intramolecular hydrogen tunneling in 2-chloromalonaldehyde trapped in solid para-hydrogen. Physical Chemistry Chemical Physics, 2020, 22, 6115-6121. | 1.3 | 4 |
| 69 | Electronic spectroscopy, stimulated emission, and persistent spectral hole burning of cryogenic nitrogen matrices doped with tetrabenzoporphin. Low Temperature Physics, 2012, 38, 727-731. | 0.2 | 3 |
| 70 | Hgâ€“Xe Exciplex Formation in Mixed Xe/Ar Matrices: Molecular Dynamics and Luminescence Study. Journal of Physical Chemistry A, 2015, 119, 2307-2317. | 1.1 | 3 |
| 71 | Excited electronic structure of methylcyanoacetylene probed by VUV Fourier-transform absorption spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 286-295. | 1.1 | 3 |
| 72 | Synthesis and Electronic Phosphorescence of Dicyanooctatetrayne (NC10N) in Cryogenic Matrixes. Journal of Physical Chemistry A, 2018, 122, 5580-5588. | 1.1 | 3 |

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| 73 | Selective photoisomerisation of 2-chloromalonaldehyde. Journal of Chemical Physics, 2019, 150, 034305. | 1.2 | 3 |
| 74 | Influence of complexation and solid environment on the vibrational coherence of DCl. European Physical Journal D, 2005, 36, 41-47. | 0.6 | 2 |
| 75 | A DFT study of reversed isotope shifts in H/D substitution of free-base porphyrin and related free-base tetrapyrroles. Canadian Journal of Chemistry, 2012, 90, 1078-1091. | 0.6 | 2 |
| 76 | Stimulated emission in cryogenic samples doped with free-base tetraazaporphine. Physical Chemistry Chemical Physics, 2015, 17, 14931-14942. | 1.3 | 2 |
| 77 | W(CO)6 in cryogenic solids: A comparative study of vibrational properties. Journal of Luminescence, 2017, 191, 78-86. | 1.5 | 2 |
| 78 | Hidden Isomer of Trifluoroacetylacetone Revealed by Matrix Isolation Infrared and Raman Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 2249-2266. | 1.1 | 2 |
| 79 | Site effects on the electronic relaxation of aromatic molecules in van der Waals solids. Journal of Luminescence, 2001, 94-95, 457-460. | 1.5 | 1 |
| 80 | Free base tetraazaporphine isolated in inert gas hosts: Matrix influence on its spectroscopic and photochemical properties. Journal of Chemical Physics, 2014, 141, 124303. | 1.2 | 1 |
| 81 | Cavity Ring Down Spectroscopy Measurements for High-Overtone Vibrational Bands of HC<sub>3</sub>N. Journal of Physical Chemistry A, 2015, 119, 9494-9505. | 1.1 | 1 |
| 82 | The role of spin-orbit coupling in the optical spectroscopy of atomic sodium isolated in solid xenon. Low Temperature Physics, 2019, 45, 715-720. | 0.2 | 1 |
| 83 | Spectroscopy of methylcyanodiacetylene revisited. Solid parahydrogen and solid neon matrix studies. Journal of Molecular Structure, 2020, 1218, 128437. | 1.8 | 1 |
| 84 | Vibrational dynamics of iron pentacarbonyl in cryogenic matrices. Journal of Chemical Physics, 2022, 156, 024301. | 1.2 | 1 |
| 85 | Non-linear infrared properties of InAs/GaAs self-assembled quantum dots. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 569-571. | 0.7 | 0 |
| 86 | Theoretical study of â€œtrapping sitesâ€•in cryogenic rare gas solids doped with Î²-dicarbonyl molecules. Low Temperature Physics, 2019, 45, 317-324. | 0.2 | 0 |
| 87 | Exploring vibrational coherence of molecular systems with simultaneous excitation of close frequencies using the CLIO-FEL. , 2004, , 636-640. | | 0 |
| 88 | Phosphorescence of C5Nâ˜ in Rare Gas Solids. Photochem, 2022, 2, 263-271. | 1.3 | 0 |