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	Vibrational dynamics of iron pentacarbonyl in cryogenic matrices. Journal of Chemical Physics, 2022, 156, 024301.	1.2	1
2	Phosphorescence of C5Nâ˙ in Rare Gas Solids. Photochem, 2022, 2, 263-271.	1.3	0
3	Hidden Isomer of Trifluoroacetylacetone Revealed by Matrix Isolation Infrared and Raman Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 2249-2266.	1.1	2
4	Phosphorescence excitation mapping and vibrational spectroscopy of HC9N and HC11N cyanopolyynes in organic solvents. Journal of Molecular Structure, 2020, 1214, 128201.	1.8	7
5	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
6	Intramolecular hydrogen tunneling in 2-chloromalonaldehyde trapped in solid para-hydrogen. Physical Chemistry Chemical Physics, 2020, 22, 6115-6121.	1.3	4
7	Spectroscopy of methylcyanodiacetylene revisited. Solid parahydrogen and solid neon matrix studies. Journal of Molecular Structure, 2020, 1218, 128437.	1.8	1
8	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
9	Selective photoisomerisation of 2-chloromalonaldehyde. Journal of Chemical Physics, 2019, 150, 034305.	1.2	3
10	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
11	2-Chloromalonaldehyde, a model system of resonance-assisted hydrogen bonding: vibrational investigation. Physical Chemistry Chemical Physics, 2018, 20, 12888-12897.	1.3	10
12	Low Temperature Synthesis and Phosphorescence of Methylcyanotriacetylene. Journal of Physical Chemistry A, 2018, 122, 89-99.	1.1	7
13	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
14	Molecules in confinement in clusters, quantum solvents and matrices: general discussion. Faraday Discussions, 2018, 212, 569-601.	1.6	4
15	Large amplitude motions within molecules trapped in solid parahydrogen. Faraday Discussions, 2018, 212, 499-515.	1.6	8
16	Synthesis and Electronic Phosphorescence of Dicyanooctatetrayne (NC10N) in Cryogenic Matrixes. Journal of Physical Chemistry A, 2018, 122, 5580-5588.	1.1	3
17	W(CO)6 in cryogenic solids: A comparative study of vibrational properties. Journal of Luminescence, 2017, 191, 78-86.	1.5	2
18	Cryogenic Photochemical Synthesis and Electronic Spectroscopy of Cyanotetracetylene. Journal of Physical Chemistry A, 2017, 121, 7374-7384.	1.1	11

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19	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
20	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
21	Double deuterated acetylacetone in neon matrices: infrared spectroscopy, photoreactivity and the tunneling process. Physical Chemistry Chemical Physics, 2016, 18, 20713-20725.	1.3	13
22	Cavity Ring Down Spectroscopy Measurements for High-Overtone Vibrational Bands of HC₃N. Journal of Physical Chemistry A, 2015, 119, 9494-9505.	1.1	1
23	Formation and Spectroscopy of Dicyanotriacetylene (NC₈N) in Solid Kr. Journal of Physical Chemistry A, 2015, 119, 2701-2708.	1.1	7
24	Stimulated emission in cryogenic samples doped with free-base tetraazaporphine. Physical Chemistry Chemical Physics, 2015, 17, 14931-14942.	1.3	2
25	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
26	Synthesis and spectroscopy of cyanotriacetylene (HC7N) in solid argon. Journal of Chemical Physics, 2014, 140, 044329.	1.2	15
27	Photochemistry of glycolaldehyde in cryogenic matrices. Journal of Chemical Physics, 2014, 140, 224319.	1.2	11
28	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
29	Vibrational Perturbations of W(CO)₆ Trapped in a Molecular Lattice Probed by Linear and Nonlinear Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 8145-8156.	1.1	8
30	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
31	Low-temperature phosphorescence of dicyanoacetylene in rare gas solids. Low Temperature Physics, 2012, 38, 723-726.	0.2	13
32	Low temperature Raman spectra of cyanobutadiyne (HC5N). Vibrational Spectroscopy, 2012, 62, 268-272.	1.2	10
33	Photochemistry of acetylacetone isolated in parahydrogen matrices upon 266 nm irradiation. Physical Chemistry Chemical Physics, 2012, 14, 3450.	1.3	17
34	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
35	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
36	Visible luminescence spectroscopy of free-base and zinc phthalocyanines isolated in cryogenic matrices. Physical Chemistry Chemical Physics, 2011, 13, 17543.	1.3	37

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37	UV-induced growth of cyanopolyyne chains in cryogenic solids. Physical Chemistry Chemical Physics, 2011, 13, 16780.	1.3	17
38	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
39	Infrared study of glycolaldehyde isolated in parahydrogen matrix. Journal of Chemical Physics, 2010, 133, 094502.	1.2	18
40	Unveiled optical properties of tetrapyrollic pigments in cryogenic environments. Low Temperature Physics, 2010, 36, 451-457.	0.2	7
41	Electronic absorption and phosphorescence of cyanodiacetylene. Journal of Chemical Physics, 2010, 133, 074310.	1.2	22
42	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
43	Infra-red and Raman spectroscopy of free-base and zinc phthalocyanines isolated in matrices. Physical Chemistry Chemical Physics, 2010, 12, 10406.	1.3	49
44	Amplified emission of phthalocyanine isolated in cryogenic matrices. Physical Chemistry Chemical Physics, 2008, 10, 2167.	1.3	8
45	The C3Nâ^' anion: First detection of its electronic luminescence in rare gas solids. Journal of Chemical Physics, 2008, 128, 164304.	1.2	13
46	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
47	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
48	Influence of complexation and solid environment on the vibrational coherence of DCl. European Physical Journal D, 2005, 36, 41-47.	0.6	2
49	A site-selective spectroscopy of naphthalene and quinoline in TEOS/MTEOS xerogels. Physical Chemistry Chemical Physics, 2005, 7, 1933-1938.	1.3	13
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	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
52	Exploring vibrational coherence of molecular systems with simultaneous excitation of close frequencies using the CLIO-FEL. , 2004, , 636-640.		0
53	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
54	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

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55	Quantum beats induced by spectral diffusion between independent two-level systems. Physical Review A, 2003, 67, .	1.0	11
56	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
57	Dephasing of intersublevel polarizations in InAs/GaAs self-assembled quantum dots. Physical Review B, 2002, 66, .	1.1	17
58	Electronic relaxation of aniline in argon matrix: A site selective laser spectroscopy. Journal of Chemical Physics, 2002, 116, 4993.	1.2	13
59	A simulation of naphthalene matrix isolation: comparison with experiments. Chemical Physics, 2001, 272, 243-258.	0.9	23
60	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
61	Infrared spectroscopy of aniline (C6H5NH2) and its cation in a cryogenic argon matrix. Chemical Physics Letters, 2001, 338, 130-136.	1.2	40
62	Site effect on radiative and non-radiative relaxation paths of naphthalene in low-temperature matrices. Chemical Physics, 2001, 272, 227-241.	0.9	15
63	Infrared photon echo experiments on small molecules isolated in condensed phase. Journal of Luminescence, 2001, 94-95, 575-578.	1.5	6
64	EXAFS studies of the trapping site structure for molecules isolated in cryogenic matrices. Low Temperature Physics, 2000, 26, 691-698.	0.2	4
65	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
66	Time Domain Investigation on Vibrational Dephasing and Spectral Diffusion in CO-Doped SolidN2. Physical Review Letters, 2000, 85, 964-967.	2.9	20
67	Vibrational Dynamics in Molecular Condensed Phases With The Clio Free Electron Laser. Laser Chemistry, 1999, 19, 65-69.	0.5	7
68	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
69	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
70	Vibrational structure in atomic emission spectra: Hg atoms in molecular matrices. Journal of Chemical Physics, 1997, 107, 2205-2214.	1.2	9
71	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
72	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

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73	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
74	Spectra and relaxation paths of Hg(3P1) in rare gas matrices. Journal of Chemical Physics, 1992, 97, 4772-4780.	1.2	31
75	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
76	Electronic spectra and proton transfer in the phenol/(NH3)n clusters in argon matrices. Chemical Physics, 1991, 156, 281-291.	0.9	22
77	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
78	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
79	Mechanism of Hg(3P1) relaxation in nitrogen matrices. II. Experimental results and interpretation. Chemical Physics, 1989, 136, 1-14.	0.9	8
80	Mechanism of Hg(3P) relaxation in nitrogen matrices. I. Theoretical study of HgN2. Chemical Physics, 1989, 133, 377-393.	0.9	7
81	Electronic to vibrational energy transfer and relaxation in matrices. I. Hg in N2 matrix. Chemical Physics, 1987, 111, 169-182.	0.9	15
82	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
83	Co vibrational stimulated emission in a Hg-Co-N2 matrix. Optics Communications, 1986, 58, 100-102.	1.0	7
84	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
85	The first two excited 1Î£g+ states of Cs2. Chemical Physics Letters, 1984, 106, 162-165.	1.2	13
86	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
87	Laser-induced fluorescence of CsH: The X1Î£+ state dissociation energy. Chemical Physics Letters, 1984, 112, 10-14.	1.2	18
88	Laser-induced infrared fluorescence of Cs2. Chemical Physics Letters, 1983, 98, 608-610.	1.2	12