Gary E Douberly

List of Publications by Year
in descending order

73	1,559	24	37
papers	citations	h-index	g-index

74	74	74	1238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	THE INFRARED SPECTRUM OF PROTONATED NAPHTHALENE AND ITS RELEVANCE FOR THE UNIDENTIFIED INFRARED BANDS. Astrophysical Journal, 2009, 702, 301-306.	4.5	137
2	Infrared Spectra of HClâ‹H₂O Clusters in Helium Nanodroplets. Journal of Physical Chemistry Letters, 2010, 1, 2233-2238.	4.6	75
3	How to VPT2: Accurate and Intuitive Simulations of CH Stretching Infrared Spectra Using VPT2+K with Large Effective Hamiltonian Resonance Treatments. Journal of Physical Chemistry A, 2021, 125, 1301-1324.	2.5	72
4	Infrared Spectroscopy of (HCl)_{<i>m</i>}(H₂O)_{<i>n</i>} Clusters in Helium Nanodroplets: Definitive Assignments in the HCl Stretch Region. Journal of Physical Chemistry A, 2010, 114, 8090-8098.	2.5	56
5	Protein Tubule Immobilization on Self-Assembled Monolayers on Au Substrates. Nano Letters, 2001, 1, 461-464.	9.1	55
6	Fabrication of Protein Tubules:Â Immobilization of Proteins on Peptide Tubules. Journal of Physical Chemistry B, 2001, 105, 7612-7618.	2.6	52
7	Automation of an â€œAculightâ€•continuous-wave optical parametric oscillator. Review of Scientific Instruments, 2013, 84, 013102.	1.3	49
8	Infrared Spectroscopy of thetert-Butyl Cation in the Gas Phase. Journal of the American Chemical Society, 2007, 129, 13782-13783.	13.7	48
9	Fabrication of Nanocrystal Tube Using Peptide Tubule as Template and Its Application as Signal-Enhancing Cuvette. Journal of Physical Chemistry B, 2001, 105, 1683-1686.	2.6	45
10	Infrared Spectroscopy of Perdeuterated Protonated Water Clusters in the Vicinity of the Clathrate Cage. Journal of Physical Chemistry A, 2009, 113, 8449-8453.	2.5	43
11	Infrared spectroscopy of gas phase C3H5+: The allyl and 2-propenyl cations. Journal of Chemical Physics, 2008, 128, 021102.	3.0	42
12	The structure of protonated acetone and its dimer: infrared photodissociation spectroscopy from 800 to 4000 cm^{â^'1}. Physical Chemistry Chemical Physics, 2008, 10, 77-79.	2.8	41
13	Organization of Peptide Nanotubes into Macroscopic Bundles. Langmuir, 2001, 17, 7918-7922.	3.5	39
14	Propargyl + O₂ Reaction in Helium Droplets: Entrance Channel Barrier or Not?. Journal of Physical Chemistry A, 2013, 117, 13626-13635.	2.5	39
15	Infrared spectroscopy of protonated ethylene: The nature of proton binding in the non-classical structure. Chemical Physics Letters, 2009, 480, 17-20.	2.6	36
16	Helium Nanodroplet Isolation and Infrared Spectroscopy of the Isolated Ion-Pair 1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. Journal of Physical Chemistry A, 2013, 117, 9047-9056.	2.5	34
17	IRâ€"IR double resonance spectroscopy in helium nanodroplets: Photo-induced isomerization. Physical Chemistry Chemical Physics, 2005, 7, 463-468.	2.8	33
18	Infrared spectroscopy of the protonated nitrogen dimer: The complexity of shared proton vibrations. Journal of Chemical Physics, 2009, 131, 104312.	3.0	32

#	ARTICLE	IF	CITATIONS
19	Infrared spectroscopy of HOOO and DOOO in 4He nanodroplets. Journal of Chemical Physics, 2012, 137, 184302.	3.0	30
20	Infrared Laser Spectroscopy of the CH₃OO Radical Formed from the Reaction of CH₃ and O₂ within a Helium Nanodroplet. Journal of Physical Chemistry A, 2012, 116, 5299-5304.	2.5	28
21	Rotational Dynamics of the Methyl Radical in Superfluid ⁴He Nanodroplets. Journal of Physical Chemistry A, 2013, 117, 11640-11647.	2.5	27
22	Quantum Cascade Laser Spectroscopy and Photoinduced Chemistry of Alâ€“(CO)_{<i>n</i>} Clusters in Helium Nanodroplets. Journal of Physical Chemistry A, 2011, 115, 7437-7447.	2.5	26
23	The ethyl radical in superfluid helium nanodroplets: Rovibrational spectroscopy and <i>ab initio</i> computations. Journal of Chemical Physics, 2013, 138, 194303.	3.0	26
24	Infrared Spectroscopy of OHÂ·Â·CH₃OH: Hydrogen-Bonded Intermediate Along the Hydrogen Abstraction Reaction Path. Journal of Physical Chemistry A, 2015, 119, 8125-8132.	2.5	26
25	Anomalous Î›-Doubling in the Infrared Spectrum of the Hydroxyl Radical in Helium Nanodroplets. Journal of Physical Chemistry A, 2013, 117, 8103-8110.	2.5	24
26	Dipole Moment of the HOOO Radical: Resolution of a Structural Enigma. Journal of Physical Chemistry Letters, 2013, 4, 3584-3589.	4.6	23
27	Mid-infrared signatures of hydroxyl containing water clusters: Infrared laser Stark spectroscopy of OHâ€“H2O and OH(D2O)<i>n</i> (<i>n</i> = 1-3). Journal of Chemical Physics, 2015, 143, 164304.	3.0	23
28	Formation of Exotic Networks of Water Clusters in Helium Droplets Facilitated by the Presence of Neon Atoms. Journal of the American Chemical Society, 2017, 139, 4152-4156.	13.7	20
29	Infrared laser spectroscopy of the <i>n</i>-propyl and <i>i</i>-propyl radicals: Stretch-bend Fermi coupling in the alkyl CH stretch region. Journal of Chemical Physics, 2016, 145, 224304.	3.0	19
30	(HCN)_{<i>m</i>}âˆ’M_{<i>n</i>} (M = K, Ca, Sr): Vibrational Excitation Induced Solvation and Desolvation of Dopants in and on Helium Nanodroplets. Journal of Physical Chemistry A, 2010, 114, 3391-3402.	2.5	18
31	Rotamers of Isoprene: Infrared Spectroscopy in Helium Droplets and Ab Initio Thermochemistry. Journal of Physical Chemistry A, 2018, 122, 148-158.	2.5	17
32	Infrared Spectra in the 3 Î¼m Region of Ethane and Ethane Clusters in Helium Droplets. Journal of Physical Chemistry A, 2013, 117, 13648-13653.	2.5	16
33	Infrared laser spectroscopy of the helium-solvated allyl and allyl peroxy radicals. Journal of Chemical Physics, 2013, 139, 234301.	3.0	16
34	Ethyl + O₂ in Helium Nanodroplets: Infrared Spectroscopy of the Ethylperoxy Radical. Journal of Physical Chemistry A, 2019, 123, 3558-3568.	2.5	16
35	Rotational Dynamics of HCNâˆ’M (M = Na, K, Rb, Cs) van der Waals Complexes Formed on the Surface of Helium Nanodropletsâ€. Journal of Physical Chemistry A, 2007, 111, 7292-7302.	2.5	15
36	Liquid Hot NAGMA Cooled to 0.4 K: Benchmark Thermochemistry of a Gas-Phase Peptide. Journal of Physical Chemistry A, 2014, 118, 9692-9700.	2.5	14

#	Article	IF	Citations
37	Infraredâ˘Infrared Double Resonance Spectroscopy of the Isomers of Acetyleneâ˘HCN and Cyanoacetyleneâ˘HCN in Helium Nanodropletsâ€. Journal of Physical Chemistry A, 2007, 111, 7282-7291.	2.5	13
38	Single and double resonance spectroscopy of methanol embedded in superfluid helium nanodroplets. Journal of Chemical Physics, 2014, 141, 044301.	3.0	13
39	Two-center three-electron bonding in ClNH3 revealed via helium droplet infrared laser Stark spectroscopy: Entrance channel complex along the Cl + NH3 â†' ClNH2 + H reaction. Journal of Chemical Physics, 2016, 144, 164301.	3.0	13
40	Infrared Spectroscopy of Prereactive Aluminumâ˘, Galliumâ˘, and Indiumâ˘HCN Entrance Channel Complexes Solvated in Helium Nanodroplets. Journal of Physical Chemistry A, 2007, 111, 12304-12316.	2.5	12
41	Infrared spectroscopy and tunneling dynamics of the vinyl radical in 4He nanodroplets. Journal of Chemical Physics, 2013, 138, 174302.	3.0	12
42	Helium Nanodroplet Isolation of the Cyclobutyl, 1-Methylallyl, and Allylcarbinyl Radicals: Infrared Spectroscopy and Ab Initio Computations. Journal of Physical Chemistry A, 2017, 121, 7576-7587.	2.5	12
43	Rovibrational spectroscopy of formaldehyde in helium nanodroplets. Journal of Molecular Spectroscopy, 2013, 292, 15-19.	1.2	11
44	Characterization of the 2-methylvinoxy radical + O2 reaction: A focal point analysis and composite multireference study. Journal of Chemical Physics, 2019, 151, 124302.	3.0	11
45	Infrared spectroscopy of propene in solid para-hydrogen and helium droplets: The role of matrix shifts in the analysis of anharmonic resonances. Journal of Molecular Spectroscopy, 2018, 354, 7-14.	1.2	10
46	Communication: Helium nanodroplet isolation and rovibrational spectroscopy of hydroxymethylene. Journal of Chemical Physics, 2014, 140, 171102.	3.0	9
47	Infrared rovibrational spectroscopy of OHâ€"C2H2 in 4He nanodroplets: Parity splitting due to partially quenched electronic angular momentum. Journal of Chemical Physics, 2015, 142, 134306.	3.0	9
48	Rovibrational Spectra for the HCCCNÂ·HCN and HCNÂ·HCCCN Binary Complexes in4He Dropletsâ€. Journal of Physical Chemistry A, 2007, 111, 7516-7528.	2.5	8
49	Infrared Laser Spectroscopy of the L-Shaped Clâ€"HCl Complex Formed in Superfluid ⁴He Nanodroplets. Journal of Physical Chemistry A, 2015, 119, 12028-12035.	2.5	8
50	Infrared spectroscopy of the n-propyl and i-propyl radicals in solid para-hydrogen. Journal of Molecular Spectroscopy, 2019, 363, 111170.	1.2	8
51	Sulfurous and sulfonic acids: Predicting the infrared spectrum and setting the surface straight. Journal of Chemical Physics, 2020, 152, 024302.	3.0	8
52	<i>tert</i>-Butyl peroxy radical: ground and first excited state energetics and fundamental frequencies. Physical Chemistry Chemical Physics, 2019, 21, 9747-9758.	2.8	7
53	On the Al+HCN reaction in helium nanodroplets. Chemical Physics Letters, 2012, 551, 54-59.	2.6	6
54	Helium Nanodroplet Isolation Spectroscopy and ab Initio Calculations of HO₃ï£¿(O₂)_{<i>n</i>} Clusters. ChemPhysChem, 2013, 14, 764-770.	2.1	6

#	Article	IF	Citations
55	Reactive intermediates in 4He nanodroplets: Infrared laser Stark spectroscopy of dihydroxycarbene. Journal of Chemical Physics, 2015, 142, 144309.	3.0	6
56	Infrared Stark and Zeeman spectroscopy of OHâ€“CO: The entrance channel complex along the OH + CO â†’ trans-HOCO reaction pathway. Journal of Chemical Physics, 2016, 145, 124310.	3.0	6
57	Infrared Spectroscopy of the Tropyl Radical in Helium Droplets. Journal of Physical Chemistry A, 2016, 120, 6768-6773.	2.5	6
58	Infrared Spectroscopy of the Entrance Channel Complex Formed Between the Hydroxyl Radical and Methane in Helium Nanodroplets. Journal of Physical Chemistry A, 2017, 121, 7597-7602.	2.5	6
59	Infrared Spectrum of Fulvenallene and Fulvenallenyl in Helium Droplets. Journal of Physical Chemistry A, 2019, 123, 3782-3792.	2.5	5
60	Four isomers of In ₂ H ₂ : a careful comparison between theory and experiment. Molecular Physics, 2021, 119, .	1.7	5
61	Kinetic Stability of Pentazole. Journal of Physical Chemistry A, 2021, 125, 9092-9098.	2.5	5
62	High-resolution infrared spectroscopy of Mgâ€“HF and Mgâ€“(HF)2 solvated in helium nanodroplets. Journal of Chemical Physics, 2009, 130, 184313.	3.0	4
63	Observation of the<i>Q</i>(3/2) Î›-doublet transitions for<i>X</i>²Î_{3/2}OD in helium nanodroplets. Molecular Physics, 2014, 112, 301-303.	1.7	4
64	Sequential Capture of O(3P) and HCN by Helium Nanodroplets: Infrared Spectroscopy and ab Initio Computations of the 3Î£ Oâ€“HCN Complex. Journal of Physical Chemistry A, 2017, 121, 9466-9473.	2.5	4
65	Convergent energies and anharmonic vibrational spectra of Ca₂H₂ and Ca₂H₄ constitutional isomers. Physical Chemistry Chemical Physics, 2019, 21, 10914-10922.	2.8	4
66	Infrared spectroscopy of H+(CO)2 in the gas phase and in para-hydrogen matrices. Journal of Chemical Physics, 2020, 153, 084305.	3.0	4
67	Vibrational dynamics of the linear and bent isomers of HFâ€“N2O trapped in 0.4K helium nanodroplets. Chemical Physics, 2009, 361, 118-124.	1.9	3
68	Infrared photodissociation spectroscopy and anharmonic vibrational study of the HO4+ molecular ion. Journal of Chemical Physics, 2020, 152, 174309.	3.0	3
69	On the Stark effect in open shell complexes exhibiting partially quenched electronic angular momentum: Infrared laser Stark spectroscopy of OHâ€“C2H2, OHâ€“C2H4, and OHâ€“H2O. Journal of Molecular Spectroscopy, 2015, 314, 54-62.	1.2	2
70	Infrared laser Stark spectroscopy of hydroxymethoxycarbene in 4He nanodroplets. Chemical Physics Letters, 2015, 639, 99-104.	2.6	2
71	Potential energy profile for the Cl + (H2O)3 â†’ HCl + (H2O)2OH reaction. A CCSD(T) study. Physical Chemistry Chemical Physics, 2021, 23, 26837-26842.	2.8	2
72	The 75th International Symposium on Molecular Spectroscopy. Journal of Physical Chemistry A, 2020, 124, 4873-4874.	2.5	0

#	Article	IF	Citations
73	The noncovalent interaction between water and the ³P ground state of the oxygen atom*. Molecular Physics, 0, , .	1.7	0