

Gregory E Hall

List of Publications by Year in descending order

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117
papers

3,376
citations

126907

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h-index

168389

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g-index

121
all docs

121
docs citations

121
times ranked

1401
citing authors

#	ARTICLE	IF	CITATIONS
1	The 1.66 μm spectrum of the ethynyl radical, CCH. Journal of Molecular Spectroscopy, 2021, 376, 111404.	1.2	0
2	Anomalous Intensities in the 2+1 REMPI Spectrum of the E \rightarrow X \rightarrow Σ^+ Transition of CO. Journal of Physical Chemistry A, 2019, 123, 2780-2788.	2.5	1
3	Kinetic study of the OH + ethylene reaction using frequency-modulated laser absorption spectroscopy. International Journal of Chemical Kinetics, 2019, 51, 412-421.	1.6	8
4	Evidence for lambda doublet propensity in the UV photodissociation of ozone. Journal of Chemical Physics, 2019, 151, 224302.	3.0	6
5	Investigating the photodissociation of H ₂ O ₂ using frequency modulation laser absorption spectroscopy to monitor radical products. Chemical Physics Letters, 2018, 711, 148-151.	2.6	3
6	Frequency measurements and self-broadening of sub-Doppler transitions in the $\nu_1 + \nu_3$ band of C ₂ H ₂ . Journal of Chemical Physics, 2018, 149, 154308.	3.0	14
7	Analysis of the $\nu_1 + \nu_3$ bands of the ethynyl radical. Journal of Chemical Physics, 2016, 145, 074306.	1.2	2
8	Rotational and angular distributions of NO products from NO-Rg (Rg = He, Ne, Ar) complex photodissociation. Journal of Chemical Physics, 2016, 144, 044309.	3.0	11
9	The near-infrared spectrum of ethynyl radical. Journal of Chemical Physics, 2016, 145, 074306.	3.0	5
10	Supercontinuum Fourier transform spectrometry with balanced detection on a single photodiode. Journal of Chemical Physics, 2016, 145, 084201.	3.0	11
11	Quadrupole splittings in the near-infrared spectrum of 14NH ₃ . Journal of Chemical Physics, 2016, 145, 144302.	3.0	8
12	Application of the Hartmann-Tran profile to precise experimental data sets of 12C ₂ H ₂ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 28-37.	2.3	19
13	Doppler-Resolved Kinetics of Saturation Recovery. Journal of Physical Chemistry A, 2015, 119, 7439-7450.	2.5	5
14	Frequency-comb referenced spectroscopy of ν_4 - and ν_5 -excited hot bands in the 1.5 μm spectrum of C ₂ H ₂ . Journal of Molecular Spectroscopy, 2015, 316, 64-71.	1.2	29
15	Collinear two-color saturation spectroscopy in CN \rightarrow X ($1\ \Sigma^+$) and ($2\ \Sigma^+$) bands. Journal of Molecular Spectroscopy, 2014, 296, 36-42.	1.2	3
16	Argon-Induced Pressure Broadening, Shifting, and Narrowing in the CN \rightarrow X ($1\ \Sigma^+$) Band. Journal of Physical Chemistry A, 2013, 117, 11837-11846.	2.5	9
17	Temperature-Dependent, Nitrogen-Perturbed Line Shape Measurements in the $\nu_1 + \nu_3$ Band of Acetylene Using a Diode Laser Referenced to a Frequency Comb. Journal of Physical Chemistry A, 2013, 117, 13908-13918.	2.5	14
18	Supercontinuum Fourier transform spectrometry with shot noise limited differential detection on a single photodiode., 2013, , .		0

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19	Broadband laser enhanced dual-beam interferometry. <i>Optics Letters</i> , 2012, 37, 2406.	3.3	4
20	What Is the Best DFT Functional for Vibronic Calculations? A Comparison of the Calculated Vibronic Structure of the $S_1 \rightarrow S_0$ Transition of Phenylacetylene with Cavity Ringdown Band Intensities. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6750-6758.	2.5	27
21	Hyperfine structures in the $\nu=1$ vibrational band of the of N_2 . <i>Journal of Molecular Spectroscopy</i> , 2012, 282, 50-55.	1.2	4
22	CH_2 $B_1 \rightarrow A_1$ Band Origin at 1.20 μm . <i>Journal of Physical Chemistry A</i> , 2011, 115, 9440-9446.	2.5	7
23	The Approach to Equilibrium: Detailed Balance and the Master Equation. <i>Journal of Chemical Education</i> , 2011, 88, 1538-1543.	2.3	15
24	Transient laser absorption spectroscopy of CH_2 near 780 nm. <i>Journal of Molecular Spectroscopy</i> , 2011, 267, 50-57.	1.2	5
25	Spectroscopic constants of the known electronic states of lead monofluoride. <i>Journal of Molecular Spectroscopy</i> , 2010, 262, 89-92.	1.2	7
26	Pseudo-continuous resonance enhanced multiphoton ionisation: application to the determination of the hyperfine constants of ^{208}Pb F . <i>Molecular Physics</i> , 2010, 108, 927-935.	1.7	10
27	Frequency modulated circular dichroism spectroscopy: application to ICN photolysis. <i>Molecular Physics</i> , 2010, 108, 1083-1095.	1.7	6
28	Sub-Doppler spectroscopy of mixed state levels in CH_2 . <i>Journal of Chemical Physics</i> , 2010, 133, 144310.	3.0	3
29	Sub-Doppler laser absorption spectroscopy of the $A_2 \rightarrow X_2 + (1,0)$ band of CN : Measurement of the ^{14}N hyperfine parameters in A_2 CN . <i>Journal of Molecular Spectroscopy</i> , 2009, 253, 122-128.	1.2	14
30	Sub-Doppler Stark Spectroscopy in the $A \rightarrow X (1,0)$ Band of CN . <i>Journal of Physical Chemistry A</i> , 2009, 113, 13342-13346.	2.5	6
31	State Mixing and Predissociation in the $c_1 \rightarrow \tilde{A}$ Band System of Singlet Methylene Studied by Optical Double Resonance. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9248-9254.	2.5	8
32	Applications of Doppler Spectroscopy to Photofragmentation. <i>Advances in Chemical Physics</i> , 2007, , 1-50.	0.3	23
33	Coherent and incoherent orientation and alignment of ICN photoproducts. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 272-287.	2.8	27
34	AC Stark detection of optical double resonance in CH_2 . <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2823-2825.	2.8	8
35	Rotationally resolved spectrum of the band of $H CBr$. <i>Journal of Molecular Spectroscopy</i> , 2006, 235, 125-131.	1.2	19
36	Observation of the state of CH_2 by optical double resonance. <i>Journal of Molecular Spectroscopy</i> , 2006, 240, 269-271.	1.2	11

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37	Anisotropy of photofragment recoil as a function of dissociation lifetime, excitation frequency, rotational level, and rotational constant. <i>Journal of Chemical Physics</i> , 2006, 125, 133316.	3.0	29
38	State-resolved thermalization of singlet and mixed singlet-triplet states of CH ₂ . <i>Journal of Chemical Physics</i> , 2006, 125, 084308.	3.0	19
39	The spectrum of CH ₂ near 1.36 and 0.92 μ m: Reevaluation of rotational level structure and perturbations in a ₁ ^g (010). <i>Journal of Chemical Physics</i> , 2006, 124, 184320.	3.0	6
40	Correlated product distributions from ketene dissociation measured by dc sliced ion imaging. <i>Journal of Chemical Physics</i> , 2006, 124, 014303.	3.0	33
41	Reflectron velocity map ion imaging. <i>Review of Scientific Instruments</i> , 2005, 76, 104101.	1.3	28
42	Observation of the c ₁ ^g A ₁ state of methylene by optical-optical double resonance. <i>Journal of Chemical Physics</i> , 2005, 123, 024306.	3.0	17
43	Hyperfine quantum beats from photolytic orientation and alignment. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1408.	2.8	12
44	Superexcited State Dynamics Probed with an Extreme-Ultraviolet Free Electron Laser. <i>Physical Review Letters</i> , 2004, 92, 083002.	7.8	32
45	Doppler-Resolved Spectroscopy as an Assignment Tool in the Spectrum of Singlet Methylene. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7922-7927.	2.5	13
46	Photodissociation of Bromoform at 248 nm: Single and Multiphoton Processes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1482-1488.	2.5	53
47	Imaging O(3P)+alkane reactions in crossed molecular beams: Vertical versus adiabatic H abstraction dynamics. <i>Journal of Chemical Physics</i> , 2002, 117, 7947-7959.	3.0	39
48	The E ₃ X ₃ Transition of Jet-Cooled TiO Observed in Absorption. <i>Journal of Molecular Spectroscopy</i> , 2002, 212, 133-141.	1.2	19
49	Axis-Switching and Coriolis Coupling in the $\tilde{A}_f(010) \leftarrow \tilde{X}_f(000)$ Transitions of DCCl and HCCl. <i>Journal of Molecular Spectroscopy</i> , 2002, 214, 216-224.	1.2	32
50	An ab initio molecular dynamics study of S ₀ ketene fragmentation. <i>Journal of Chemical Physics</i> , 2001, 115, 2134-2145.	3.0	18
51	Near-Infrared Spectroscopy of Bromomethylene in a Slit-Jet Expansion. <i>Journal of Molecular Spectroscopy</i> , 2000, 202, 131-143.	1.2	41
52	Transient frequency modulation absorption spectroscopy of molecules produced in a laser ablation supersonic expansion source. <i>Chemical Physics Letters</i> , 2000, 319, 363-367.	2.6	15
53	TRANSIENT LASER FREQUENCY MODULATION SPECTROSCOPY. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 243-274.	10.8	60
54	State Correlations in the Unimolecular Dissociation of Ketene. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10247-10258.	2.5	17

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55	Relationship between bipolar moments and molecule-frame polarization parameters in Doppler photofragment spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 111, 8751-8754.	3.0	38
56	Repetitively sampled time-of-flight mass spectrometry for gas-phase kinetics studies. <i>Review of Scientific Instruments</i> , 1999, 70, 3259-3264.	1.3	23
57	Vector signatures of adiabatic and diabatic dynamics in the photodissociation of ICN. <i>Journal of Chemical Physics</i> , 1999, 111, 6735-6749.	3.0	55
58	Kinetics and Product Study of the Reaction of CH ₃ Radicals with O(3P) Atoms Using Time Resolved Time-of-Flight Spectrometry. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5722-5731.	2.5	39
59	Photodissociation of acrylonitrile at 193 nm: A photofragment translational spectroscopy study using synchrotron radiation for product photoionization. <i>Journal of Chemical Physics</i> , 1998, 108, 5784-5794.	3.0	35
60	Primary and secondary processes in the 193 nm photodissociation of vinyl chloride. <i>Journal of Chemical Physics</i> , 1998, 108, 5414-5425.	3.0	101
61	Photoproducts ejected from liquid surfaces: The importance of photochemical, diffusional, kinetic, and surface structural effects. <i>Journal of Chemical Physics</i> , 1998, 109, 10390-10399.	3.0	15
62	Resonance enhanced multiphoton ionization time-of-flight study of CF ₂ I ₂ photodissociation. <i>Journal of Chemical Physics</i> , 1998, 109, 474-483.	3.0	50
63	Transient frequency-modulated spectroscopy: application to the measurement of vector and scalar correlations in molecular photodissociation. , 1998, , .		0
64	Diode laser measurements of CD ₃ quantum yields and internal energy for the dissociation of dimethyl sulfoxide-d ₆ . <i>Journal of Chemical Physics</i> , 1997, 106, 1346-1352.	3.0	10
65	Vector and scalar correlations in statistical dissociation: The photodissociation of NCCN at 193 nm. <i>Journal of Chemical Physics</i> , 1997, 106, 60-76.	3.0	46
66	Consequences of Conical Intersections in the H + O ₂ → OH + O Reaction?. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2541-2545.	2.5	34
67	Nonintuitive Asymmetry in the Three-Body Photodissociation of CH ₃ COCN. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9224-9232.	2.5	68
68	Photofragment vector correlations as a probe of <i>K</i> -scrambling in unimolecular dissociation. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997, 101, 459-464.	0.9	8
69	CN radical reaction rate measurements by time-resolved FM spectroscopy. , 1997, 29, 127-129.		24
70	Vector correlations in the 308 nm photodissociation of ICN. <i>Chemical Physics Letters</i> , 1997, 276, 103-109.	2.6	19
71	Vector correlations in the 308 nm photodissociation of ICN. <i>Chemical Physics Letters</i> , 1997, 276, 103-109.	2.6	8
72	Comment on "energy partitioning in photodissociation of methyl, ethyl, and n-propyl iodides at 304 nm". <i>Chemical Physics</i> , 1996, 211, 515-516.	1.9	4

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91	Rotational populations in OD formed in the reaction O(1D)+D2 investigated by infrared rotational absorption spectroscopy. Journal of Chemical Physics, 1989, 91, 5201-5207.	3.0	13
92	Methyl rotation, vibration, and alignment from a multiphoton ionization study of the 266 nm photodissociation of methyl iodide. Journal of Chemical Physics, 1989, 90, 4222-4236.	3.0	202
93	Vector Correlations in Photodissociation Dynamics. Annual Review of Physical Chemistry, 1989, 40, 375-405.	10.8	184
94	Probing chemical reaction dynamics by rotational spectroscopy: The OH rotational distribution in the reaction H+O2 $\hat{\rightarrow}$ 'OH+O. Chemical Physics Letters, 1989, 158, 184-188.	2.6	6
95	Vector correlations in the 157 nm photodissociation of OCS and the 266 nm photodissociation of methyl iodide. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 1185.	1.1	20
96	Angular correlations between recoil velocity and angular momentum vectors in molecular photodissociation. Journal of Chemical Physics, 1988, 88, 3682-3691.	3.0	57
97	State-resolved photodissociation of OCS monomers and clusters. Journal of Chemical Physics, 1988, 88, 3692-3708.	3.0	123
98	State-resolved photofragment velocity distributions by pulsed extraction time-of-flight mass spectrometry. The Journal of Physical Chemistry, 1988, 92, 5-8.	2.9	123
99	Vector Correlations in the Photodissociation of CH ₃ I, OCS, and Glyoxal. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1988, 92, 281-288.	0.9	9
100	State-to-state photodissociation dynamics of trans-glyoxal. Journal of Chemical Physics, 1987, 86, 1258-1268.	3.0	73
101	Photofragment spectroscopy with coherent VUV: Product correlations and alignment. AIP Conference Proceedings, 1987, , .	0.4	0
102	Product correlations in photofragment dynamics. Faraday Discussions of the Chemical Society, 1986, 82, 13.	2.2	40
103	State-resolved photofragmentation of OCS and CS2. AIP Conference Proceedings, 1986, , .	0.4	0
104	Measurement of the Angular Correlation between Recoil Velocity and Angular Momentum Vectors in Molecular Photodissociation. Physical Review Letters, 1986, 56, 1671-1674.	7.8	71
105	Rotational alignment of the CN fragment of ICN photodissociation. Journal of Chemical Physics, 1986, 84, 2120-2128.	3.0	76
106	Angular Momentum-Velocity Correlation of OCS Photodissociation Products. , 1986, , 429-433.		0
107	Collisional quenching of excited iodine atoms (5p ⁵ 2P _{1/2}) by Cl ₂ in a flow system. Journal of Chemical Physics, 1985, 82, 2590-2597.	3.0	8
108	Laser kinetic studies of I(2P _{1/2}) and O ₂ (1 $\hat{\nu}$ _g). Journal of Photochemistry and Photobiology, 1984, 25, 551-552.	0.6	1

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109	Multiphoton ionization of nitrogen dioxide: Four photon spectroscopy of the $np\bar{l}f_u$ Rydberg series. Journal of Chemical Physics, 1983, 78, 7124-7131.	3.0	17
110	Electronic-to-Vibrational Energy Transfer from I(52P1/2) to I2(25ν<math><43</math>). The Journal of Physical Chemistry, 1983, 87, 2153-2161.	2.9	33
111	Influence of micellar interface on molecular ionization potentials: a tunable laser spectroscopy study of photoionization of pyrene. Chemical Physics, 1980, 49, 279-287.	1.9	12
112	Picosecond dynamics of electrons in fluids and laser-induced electron transfer. The Journal of Physical Chemistry, 1980, 84, 1145-1150.	2.9	26
113	CW autocorrelation measurements of picosecond laser pulses. IEEE Journal of Quantum Electronics, 1980, 16, 990-996.	1.9	231
114	The laser-induced, two-photon photoionization of pyrene: A double-pulse investigation. Chemical Physics, 1978, 28, 205-214.	1.9	24
115	Nanosecond laser measurements of optical absorption coefficients of electrons in polar fluids. Chemical Physics, 1978, 32, 313-322.	1.9	22
116	Comment on the communication "Photoionization by green light in micellar solution". Journal of the American Chemical Society, 1978, 100, 8262-8264.	13.7	6
117	Tunable damage-resistant polarization rotator for ultraviolet and visible laser radiation. Applied Physics Letters, 1977, 31, 387-389.	3.3	1