

# Terry A Miller

## List of Publications by Citations

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402  
ext. papers

9,623  
ext. citations

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L-index

#	Paper	IF	Citations
356	Imaging ultrafast molecular dynamics with laser-induced electron diffraction. <i>Nature</i> , <b>2012</b> , 483, 194-7	50.4	417
355	Quantitative insights about molecules exhibiting Jahn-Teller and related effects. <i>International Reviews in Physical Chemistry</i> , <b>1998</b> , 17, 435-524	7	205
354	Optical techniques in plasma diagnostics. <i>Pure and Applied Chemistry</i> , <b>1984</b> , 56, 189-208	2.1	134
353	A Study of the Optical Emission from an rf Plasma during Semiconductor Etching. <i>Applied Spectroscopy</i> , <b>1977</b> , 31, 201-207	3.1	128
352	Free jet-cooled laser-induced fluorescence spectrum of methoxy. 1. Vibronic analysis of the $\tilde{A}$ and $\tilde{X}$ states. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 5914-5921		110
351	High-Resolution Laser-Induced Fluorescence Spectra of 7-Azaindole-Water Complexes and 7-Azaindole Dimer. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 392-398	2.8	102
350	Electron Resonance of Gaseous Diatomic Molecules. <i>Advances in Chemical Physics</i> , <b>2007</b> , 149-248		100
349	Radiative decay and radiationless deactivation in selectively excited CN. <i>Journal of Chemical Physics</i> , <b>1979</b> , 71, 1662-1669	3.9	97
348	Explorations of conical intersections and their ramifications for chemistry through the Jahn-Teller effect. <i>Chemical Society Reviews</i> , <b>2003</b> , 32, 38-49	58.5	83
347	Free jet-cooled laser-induced fluorescence spectrum of methoxy radical. 2. Rotational analysis of the $\tilde{A}2A_1$ $\rightarrow$ $\tilde{X}2E$ electronic transition. <i>The Journal of Physical Chemistry</i> , <b>1989</b> , 93, 2266-2275		82
346	Theoretical study of Jahn-Teller distortions in $C_6H_6$ and $C_6F_6$ . <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 1387-1395	3.9	82
345	Detection and characterization of alkyl peroxy radicals using cavity ringdown spectroscopy. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 10695-10698	3.9	77
344	Radiative and radiationless vibronic deactivation rates in selectively excited $CO^+$ . <i>Journal of Chemical Physics</i> , <b>1978</b> , 69, 3597-3602	3.9	77
343	High-resolution fluorescence excitation spectra of jet-cooled benzyl and p-methylbenzyl radicals. <i>Chemical Physics</i> , <b>1992</b> , 167, 203-214	2.3	76
342	Calculation of the Jahn-Teller effect in benzene cation: Application to spectral analysis. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 10654-10674	3.9	74
341	Gas-Phase Electron Resonance Spectra of SF and SeF. <i>Journal of Chemical Physics</i> , <b>1969</b> , 50, 2726-2732	3.9	72
340	The Jahn-Teller and related effects in the cyclopentadienyl radical. I. The ab initio calculation of spectroscopically observable parameters. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 4855-4868	3.9	69

- 339 Chemistry and chemical intermediates in supersonic free jet expansions. *Science*, **1984**, 223, 545-53 33.3 69
- 338 The Jahn-Teller and related effects in the cyclopentadienyl radical. II. Vibrational analysis of the  ${}^2E_{1g} \rightarrow {}^2E_{1g}$  electronic transition. *Journal of Chemical Physics*, **2001**, 114, 4869-4882 3.9 66
- 337 Rotational, fine, and hyperfine structure in the high-resolution electronic spectrum of ArOH and ArOD. *Journal of Chemical Physics*, **1991**, 95, 7086-7098 3.9 63
- 336 Laser induced fluorescence study of the  $B \rightarrow X$  transition of the vinoxy radical in a supersonic free jet expansion. *Journal of Chemical Physics*, **1984**, 81, 2339-2346 3.9 63
- 335 Two-photon absorption laser-induced fluorescence of H atoms: A probe for heterogeneous processes in hydrogen plasmas. *Journal of Applied Physics*, **1994**, 75, 7231-7236 2.5 61
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- 331 High resolution, cw laser induced fluorescence study of the  $A \rightarrow X$  system of N<sub>2</sub>. *Journal of Chemical Physics*, **1984**, 80, 4671-4678 3.9 58
- 330 Rovibronic analysis of the laser induced fluorescence excitation spectrum of the jet-cooled methoxy radical. *Journal of Chemical Physics*, **1997**, 106, 6863-6877 3.9 57
- 329 High resolution electronic spectroscopy of MgCH<sub>3</sub>. *Journal of Chemical Physics*, **1995**, 103, 5964-5969 3.9 57
- 328 Surface and volume loss of atomic nitrogen in a parallel plate rf discharge reactor. *Plasma Sources Science and Technology*, **2000**, 9, 248-255 3.5 56
- 327 Rotationally resolved electronic spectrum of jet-cooled cyclopentadienyl radical. *The Journal of Physical Chemistry*, **1988**, 92, 4263-4266 56
- 326 Diffraction using laser-driven broadband electron wave packets. *Nature Communications*, **2014**, 5, 4635 17.4 55
- 325 Vibrational spectroscopy of the chlorobenzene cation using zero kinetic energy photoelectron spectroscopy. *Journal of Chemical Physics*, **1995**, 102, 4793-4803 3.9 55
- 324 Singlet-triplet anticrossings in H<sub>2</sub>. *Journal of Chemical Physics*, **1974**, 61, 2160-2162 3.9 55
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321	Two-photon laser-induced fluorescence monitoring of O atoms in a plasma etching environment. <i>Journal of Applied Physics</i> , <b>1984</b> , 56, 2007-2011	2.5	54
320	Jahn-Teller distortions in C <sub>6</sub> H <sub>3</sub> F <sub>3</sub> <sup>+</sup> and C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub> <sup>+</sup> . <i>Journal of Chemical Physics</i> , <b>1980</b> , 72, 6070-6080	3.9	54
319	Collisional deactivation of selectively excited N <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1980</b> , 72, 5469-5475	3.9	51
318	Rotational excitation in the electron impact ionization of supercooled N <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1981</b> , 74, 5659-5668	3.9	51
317	Two-photon absorption, laser-induced fluorescence detection of Cl atoms. <i>Chemical Physics Letters</i> , <b>1982</b> , 86, 458-462	2.5	51
316	Stark Effect in Gas-Phase Electron Resonance. The Dipole Moments of ClO, BrO, SH, and IBO. <i>Journal of Chemical Physics</i> , <b>1967</b> , 47, 3801-3809	3.9	51
315	Spatially and temporally resolved absolute O-atom concentrations in etching plasmas. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 505-511	2.5	50
314	Doppler-broadened line shapes of atomic hydrogen in a parallel-plate radio frequency discharge. <i>Plasma Chemistry and Plasma Processing</i> , <b>1985</b> , 5, 317-331	3.6	50
313	Angular momentum state mixing and quenching of n=3 atomic hydrogen fluorescence. <i>Chemical Physics</i> , <b>1995</b> , 196, 371-381	2.3	48
312	Fourier transform ion cyclotron resonance mass spectrometry of trapped carbon cluster ions. <i>Chemical Physics Letters</i> , <b>1986</b> , 129, 331-335	2.5	48
311	Laser vaporization of tin: Spectra and ground state molecular parameters of Sn <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 3593-3598	3.9	48
310	Laser induced fluorescence from fluorobenzene radical cations in the gas phase. <i>Journal of Chemical Physics</i> , <b>1979</b> , 70, 138	3.9	47
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308	Two-photon absorption laser-induced fluorescence of atomic nitrogen by an alternative excitation scheme. <i>Chemical Physics Letters</i> , <b>1998</b> , 295, 305-311	2.5	45
307	Rotationally resolved electronic excitation spectra of the ethoxy $\tilde{B} \leftarrow \tilde{X}$ transition. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 9311-9316		45
306	Electronic absorption spectra of molecular cations. <i>Journal of Chemical Physics</i> , <b>1980</b> , 72, 2193-2194	3.9	45
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304	The structure and spectra of organic peroxy radicals. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 3955-3961	3.8	44

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248	The spectroscopic characterization of the methoxy radical. II. Rotationally resolved A (2)A(1)-X (2)E electronic and X (2)E microwave spectra of the perdeuteromethoxy radical CD(3)O. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 074303	3.9	30
247	High-Resolution, Rotationally Resolved Electronic Spectroscopy of the MgNC Radical. <i>Journal of Molecular Spectroscopy</i> , <b>1999</b> , 194, 219-228	1.3	30
246	Dispersed fluorescence spectroscopic study of the ground electronic state of silver trimer. <i>Chemical Physics Letters</i> , <b>1993</b> , 201, 132-140	2.5	30
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243	Electron resonance spectrum of gaseous SeO in its 3 $\Sigma$ and 1 $\Sigma$ states. <i>Molecular Physics</i> , <b>1969</b> , 17, 535-542	1.7	30
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233	An investigation of harmonic generation in liquid media with a mid-infrared laser. <i>Optics Express</i> , <b>2009</b> , 17, 20959-65	3.3	27
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230	Laser-induced fluorescence spectra of the cold radicals, ZnCH <sub>3</sub> and CdCH <sub>3</sub> , and their inert-gas complexes, X?CdCH <sub>3</sub> (X = He, Ne, Ar, Kr, Xe). <i>Chemical Physics Letters</i> , <b>1991</b> , 178, 185-191	2.5	27
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226	Spectroscopic probing and diagnostics of the geometric structure of the alkoxy and alkyl peroxy radical intermediates. <i>Molecular Physics</i> , <b>2006</b> , 104, 2581-2593	1.7	26
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221	Laser-induced fluorescence studies of large and small molecular cations produced by using electron bombardment in a free jet expansion. <i>The Journal of Physical Chemistry</i> , <b>1983</b> , 87, 5228-5233		26
220	Laser excitation and emission spectra of the hexafluorobenzene cation in the gas phase. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 326-329	16.4	26
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