

L D Ziegler

List of Publications by Year in descending order

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72
papers

2,977
citations

172457

29
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161849

54
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78
all docs

78
docs citations

78
times ranked

2299
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the Surface Enhanced Raman Scattering (SERS) of Bacteria. Journal of Physical Chemistry B, 2005, 109, 312-320.	2.6	475
2	Surface-Enhanced Raman Scattering of Whole Human Blood, Blood Plasma, and Red Blood Cells: Cellular Processes and Bioanalytical Sensing. Journal of Physical Chemistry B, 2012, 116, 9376-9386.	2.6	188
3	Barcoding bacterial cells: a SERS-based methodology for pathogen identification. Journal of Raman Spectroscopy, 2008, 39, 1660-1672.	2.5	179
4	Fluorescence-detected wave packet interferometry. II. Role of rotations and determination of the susceptibility. Journal of Chemical Physics, 1992, 96, 4180-4194.	3.0	131
5	Heterodyne-detected time-domain measurement of I ₂ predissociation and vibrational dynamics in solution. Journal of Chemical Physics, 1992, 96, 5544-5547.	3.0	118
6	Hyper-Raman spectroscopy. Journal of Raman Spectroscopy, 1990, 21, 769-779.	2.5	117
7	Resonance Raman scattering of benzene and benzene-d ₆ with 212.8 nm excitation. Journal of Chemical Physics, 1981, 74, 982-992.	3.0	107
8	Rovibronic absorption analysis of the A ₁ ^g ← X ₁ ^g transition of ammonia. Journal of Chemical Physics, 1985, 82, 664-669.	3.0	95
9	The vibronic theory of resonance hyper-Raman scattering. Journal of Chemical Physics, 1988, 88, 7287-7294.	3.0	85
10	NIR Raman spectra of whole human blood: effects of laser-induced and in vitro hemoglobin denaturation. Analytical and Bioanalytical Chemistry, 2014, 406, 193-200.	3.7	73
11	Femtosecond polarization spectroscopy: A density matrix description. Journal of Chemical Physics, 1994, 100, 1823-1839.	3.0	69
12	Rapid urinary tract infection diagnostics by surface-enhanced Raman spectroscopy (SERS): identification and antibiotic susceptibilities. Analytical and Bioanalytical Chemistry, 2017, 409, 3043-3054.	3.7	67
13	Resonance rovibronic Raman scattering of ammonia. The Journal of Physical Chemistry, 1984, 88, 1110-1116.	2.9	63
14	Resonance Raman scattering of ethylene: Evidence for a twisted geometry in the V state. Journal of Chemical Physics, 1983, 79, 1197-1202.	3.0	62
15	Resonance Raman spectra of mononucleotides obtained with 266 and 213 nm ultraviolet radiation. Biopolymers, 1984, 23, 2067-2081.	2.4	56
16	Resonance rotational Raman scattering of symmetric tops: A probe of molecular photodissociation. Journal of Chemical Physics, 1986, 84, 6013-6026.	3.0	56
17	Rotational Raman excitation profiles of symmetric tops: Subpicosecond rotation dependent lifetimes in the A ₁ ^g state of ammonia. Journal of Chemical Physics, 1987, 86, 1703-1714.	3.0	52
18	Vibronic coupling activity in the resonance Raman spectra of alkyl benzenes. Journal of Chemical Physics, 1983, 79, 1134-1137.	3.0	51

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19	Depolarization ratios of resonance Raman scattering in the gas phase. <i>Journal of Chemical Physics</i> , 1989, 90, 4125-4143.	3.0	47
20	The spontaneous resonance Raman scattering of CH ₃ I in a supersonic jet. <i>Journal of Chemical Physics</i> , 1990, 92, 2806-2817.	3.0	47
21	Calculations of resonance Raman cross sections in forbidden electronic transitions: Scattering of the 992 cm ⁻¹ mode in the 1B _{2u} band of benzene. <i>Journal of Chemical Physics</i> , 1978, 68, 1248-1252.	3.0	44
22	Resonance rotational hyper-Raman scattering intensities of symmetric top molecules. <i>Journal of Chemical Physics</i> , 1987, 87, 4498-4509.	3.0	40
23	Dispersed Optical Heterodyne Detected Birefringence and Dichroism of Transparent Liquids. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5456-5462.	2.5	40
24	An instantaneous normal mode analysis of solvation: Methyl iodide in high pressure gases. <i>Journal of Chemical Physics</i> , 1996, 105, 7034-7046.	3.0	39
25	Mode-specific subpicosecond photodissociation dynamics of the methyl iodide B state. <i>Journal of Chemical Physics</i> , 1991, 95, 288-296.	3.0	38
26	A combined instantaneous normal mode and time correlation function description of the optical Kerr effect and Raman spectroscopy of liquid CS ₂ . <i>Journal of Chemical Physics</i> , 2000, 112, 4186-4192.	3.0	38
27	Subpicosecond predissociation dynamics of the methyl radical Rydberg 3 s state. <i>Journal of Chemical Physics</i> , 1991, 94, 270-276.	3.0	37
28	Rotational hyper-Raman excitation profiles: Further evidence of J-dependent subpicosecond dynamics of NH ₃ . <i>Journal of Chemical Physics</i> , 1988, 89, 4692-4699.	3.0	33
29	Polarization analysis of the 266-nm excited resonance Raman spectrum of methyl iodide. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3139-3145.	2.9	32
30	Surface enhanced Raman spectroscopy of <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> for diagnostics, and extra-cellular metabolomics and biochemical monitoring. <i>Scientific Reports</i> , 2018, 8, 5163.	3.3	31
31	Ultraviolet preresonance Raman scattering of benzene derivatives. I. Excitation profiles for fundamentals. <i>Journal of Chemical Physics</i> , 1979, 70, 2634-2643.	3.0	28
32	The resonance rotational Raman effect: a probe of excited-state short-time dynamics. <i>The Journal of Physical Chemistry</i> , 1990, 94, 3394-3403.	2.9	28
33	A molecular dynamics study of electronic absorption line broadening in high-pressure nonpolar gases. <i>Journal of Chemical Physics</i> , 1995, 103, 7673-7684.	3.0	25
34	The probe frequency dependence of nonresonant femtosecond pump-probe nuclear responses: Undercutting vibrational inhomogeneities. <i>Journal of Chemical Physics</i> , 1999, 110, 5893-5905.	3.0	22
35	Ultraviolet preresonance Raman scattering of benzene derivatives. II. Interference effects in the excitation profiles of the vibronically active fundamentals. <i>Journal of Chemical Physics</i> , 1979, 70, 2644-2651.	3.0	21
36	Surface enhanced Raman scattering for robust, sensitive detection and confirmatory identification of dried bloodstains. <i>Analyst</i> , 2020, 145, 6097-6110.	3.5	21

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37	Resonance rovibrational Raman scattering as a probe of unimolecular subpicosecond dynamics. <i>Journal of Chemical Physics</i> , 1984, 81, 6399-6400.	3.0	20
38	Rovibrational Raman scattering of CH ₃ I vapor: Resonance with a perpendicularly polarized electronic transition. <i>Journal of Chemical Physics</i> , 1989, 90, 4115-4124.	3.0	20
39	Surface enhanced Raman scattering specificity for detection and identification of dried bloodstains. <i>Forensic Science International</i> , 2021, 328, 111000.	2.2	20
40	Preresonance Raman scattering of overtones: The scattering of two overtones of benzene in the ultraviolet. <i>Journal of Raman Spectroscopy</i> , 1979, 8, 73-80.	2.5	18
41	A molecular dynamics analysis of resonance emission: Optical dephasing and inhomogeneous broadening of CH ₃ I in CH ₄ and Ar. <i>Journal of Chemical Physics</i> , 1996, 104, 3886-3897.	3.0	18
42	Schumann-Runge resonance Raman scattering of oxygen: a rotationally resolved excitation profile study. <i>The Journal of Physical Chemistry</i> , 1989, 93, 6665-6671.	2.9	16
43	A unified treatment of ultrafast optical heterodyne detected and Z-scan spectroscopies. <i>Journal of Chemical Physics</i> , 2001, 114, 3586-3597.	3.0	16
44	Surface-Enhanced Raman Scattering of Microorganisms. <i>ACS Symposium Series</i> , 2007, , 164-185.	0.5	16
45	Nonlinear polarization description of phase-locked pulse-pair spectroscopy. <i>Journal of Chemical Physics</i> , 1992, 97, 4704-4713.	3.0	15
46	Electron Correlation Effects on the Femtosecond Dephasing Dynamics of E_{22} Excitons in (6,5) Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3917-3923.	2.5	15
47	Resonance hyper-Raman scattering polarization. A measure of methyl iodide B^{ϵ} state subpicosecond lifetimes. <i>Journal of Chemical Physics</i> , 1993, 98, 150-157.	3.0	14
48	Origin of Dispersive Line Shapes in Plasmonically Enhanced Femtosecond Stimulated Raman Spectra. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20998-21006.	3.1	14
49	Optical heterodyne detected spectrograms of ultrafast nonresonant electronic responses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 652.	2.1	13
50	A Novel Technique for the Measurement of Polarization-Specific Ultrafast Raman Responses. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9851-9858.	2.5	13
51	Ultrafast Two-Dimensional Infrared Spectroscopy of a Quasifree Rotor: J Scrambling and Perfectly Anticorrelated Cross Peaks. <i>Physical Review Letters</i> , 2018, 120, 103401.	7.8	13
52	A resonance Raman polarization study of the mode-specific subpicosecond photodissociation of the NO ₂ 2B ₂ state. <i>Journal of Raman Spectroscopy</i> , 1994, 25, 497-506.	2.5	10
53	The femtosecond birefringence of CO ₂ : from the high pressure gas to the liquid phase. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 85-94.	2.5	8
54	Structure Making and Breaking Effects of Cations in Aqueous Solution: Nitrous Oxide Pump-Probe Measurements. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10569-10580.	2.6	8

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55	Two-dimensional infrared spectroscopy from the gas to liquid phase: density dependent J -scrambling, vibrational relaxation, and the onset of liquid character. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21249-21261.	2.8	8
56	Ultrafast H ₂ and D ₂ rotational Raman responses in near critical CO ₂ : An experimental and theoretical study of anisotropic solvation dynamics. <i>Journal of Chemical Physics</i> , 2009, 131, 054501.	3.0	7
57	An experimental study of radiation-induced pure dephasing: ArF excited emission of O ₂ . <i>Journal of Chemical Physics</i> , 1990, 93, 8605-8615.	3.0	6
58	Anomalous pH-Dependent Enhancement of p -Methyl Benzoic Acid Sum-Frequency Intensities: Cooperative Surface Adsorption Effects. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3064-3076.	2.5	6
59	Conjugate Acid-Base Interaction Driven Phase Transition at a 2D Air-Water Interface. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6330-6337.	2.6	5
60	Rapid bacterial diagnostics via surface enhanced Raman microscopy. <i>Spectroscopy (Santa Monica)</i> , 2012, 27, s8-31.	1.0	5
61	The resonance fluorescence polarization of free rotors: Methyl iodide in methane and carbon dioxide. <i>Journal of Chemical Physics</i> , 1996, 105, 3984-3993.	3.0	4
62	Controlling nonpolar solvation time scales: An instantaneous normal mode viewpoint. <i>Journal of Chemical Physics</i> , 1997, 107, 9878-9889.	3.0	4
63	Dispersed Three-Pulse Infrared Photon Echoes of Nitrous Oxide in Water and Octanol. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15774-15785.	2.6	4
64	On the Molecular Origin of Bacterial SERS Spectra. , 2010, , .		2
65	Vibrational line shape effects in plasmon-enhanced stimulated Raman spectroscopies. <i>Journal of Chemical Physics</i> , 2021, 155, 194701.	3.0	2
66	Isotopic Dependence of the Methyl-Radical Rydberg 3 s Predissociation Dynamics. <i>ACS Symposium Series</i> , 1992, , 297-309.	0.5	1
67	Spectroscopic Applications of Phase-Locked Femtosecond Pulses. <i>Springer Series in Chemical Physics</i> , 1993, , 99-104.	0.2	1
68	Ultrafast Two-Photon Absorption Approach to Optical Line Shape Measurements. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8282-8294.	2.5	0
69	Surface-Enhanced Raman Scattering of Microorganisms. , 2010, , .		0
70	Nanoaggregate Embedded Beads as SERS Nanosensor for Multiplexed Pathogen Detection. , 2010, , .		0
71	Predissociation Dynamics and Structure of the Higher Vibronic Levels in the Methyl Radical Rydberg 3s State. <i>Springer Proceedings in Physics</i> , 1992, , 218-219.	0.2	0
72	Transient Dichroism Studies of I ₂ Predissociation in Solution. <i>Springer Series in Chemical Physics</i> , 1993, , 49-52.	0.2	0