

Veronica Vaida

List of Publications by Year in descending order

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148
papers

6,295
citations

57631

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85405

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151
all docs

151
docs citations

151
times ranked

3931
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Atmospheric processing of organic aerosols. <i>Journal of Geophysical Research</i> , 1999, 104, 11633-11641. | 3.3 | 408 |
| 2 | The Influence of Organic Films at the Air-Aqueous Boundary on Atmospheric Processes. <i>Chemical Reviews</i> , 2006, 106, 1445-1461. | 23.0 | 320 |
| 3 | Perspective: Water cluster mediated atmospheric chemistry. <i>Journal of Chemical Physics</i> , 2011, 135, 020901. | 1.2 | 254 |
| 4 | New evidence of an organic layer on marine aerosols. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 1-1. | 3.3 | 153 |
| 5 | Hydrated Complexes: Relevance to Atmospheric Chemistry and Climate. <i>International Reviews in Physical Chemistry</i> , 2003, 22, 203-219. | 0.9 | 140 |
| 6 | In situ observation of peptide bond formation at the water-air interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15697-15701. | 3.3 | 130 |
| 7 | Photoisomerization of OCIO: a possible mechanism for polar ozone depletion. <i>Nature</i> , 1989, 342, 405-408. | 13.7 | 126 |
| 8 | Photochemistry of aqueous pyruvic acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11714-11719. | 3.3 | 118 |
| 9 | Vibrational and Electronic Spectroscopy of Sulfuric Acid Vapor. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1112-1118. | 1.1 | 107 |
| 10 | Complexes of Importance to the Absorption of Solar Radiation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 10680-10686. | 1.1 | 105 |
| 11 | Molecular complexes in close and far away. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10584-10588. | 3.3 | 104 |
| 12 | The Hydration of Formic Acid. <i>Journal of Physical Chemistry A</i> , 2002, 106, 363-370. | 1.1 | 101 |
| 13 | Atmospheric Photochemistry via Vibrational Overtone Absorption. <i>Chemical Reviews</i> , 2003, 103, 4717-4730. | 23.0 | 97 |
| 14 | Atmospheric implications of the photolysis of the ozone-water weakly bound complex. <i>Journal of Geophysical Research</i> , 1995, 100, 18803. | 3.3 | 91 |
| 15 | The direct near ultraviolet absorption spectrum of the $\pi \rightarrow \pi^*$ transition of jet-cooled chlorine dioxide. <i>Journal of Chemical Physics</i> , 1991, 94, 153-162. | 1.2 | 87 |
| 16 | Sunlight as an energetic driver in the synthesis of molecules necessary for life. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20067-20084. | 1.3 | 85 |
| 17 | Ultraviolet absorption spectroscopy of dissociating molecules: Effects of cluster formation on the photodissociation of CH ₃ I. <i>Journal of Chemical Physics</i> , 1987, 87, 2522-2530. | 1.2 | 84 |
| 18 | Photochemical Kinetics of Pyruvic Acid in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8505-8516. | 1.1 | 80 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Picosecond dynamics of solution-phase photofragmentation of dimanganese decacarbonyl [Mn ₂ (CO) ₁₀]. <i>Journal of the American Chemical Society</i> , 1982, 104, 3536-3537. | 6.6 | 77 |
| 20 | Gas-phase water-mediated equilibrium between methylglyoxal and its geminal diol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6687-6692. | 3.3 | 75 |
| 21 | Dynamics of Vibrational Overtone Excited Pyruvic Acid in the Gas Phase: Line Broadening through Hydrogen-Atom Chattering. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7321-7331. | 1.1 | 74 |
| 22 | Spectroscopy of Photoreactive Systems: Implications for Atmospheric Chemistry. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5-18. | 1.1 | 72 |
| 23 | Multiphoton ionization study of intra- and intermolecular effects on the photodissociation of methyl iodide. <i>Journal of Chemical Physics</i> , 1988, 88, 3638-3645. | 1.2 | 71 |
| 24 | The photochemical dynamics of the $\tilde{A}^1\sigma_u^2$ state of chlorine dioxide. <i>Journal of Chemical Physics</i> , 1991, 94, 163-171. | 1.2 | 70 |
| 25 | Ocean-Atmosphere Interactions in the Emergence of Complexity in Simple Chemical Systems. <i>Accounts of Chemical Research</i> , 2012, 45, 2106-2113. | 7.6 | 62 |
| 26 | Medium effects on the photodissociation of hexacarbonylchromium (Cr(CO) ₆). <i>The Journal of Physical Chemistry</i> , 1982, 86, 1941-1947. | 2.9 | 61 |
| 27 | Fundamental and Overtone Vibrational Spectra of Gas-Phase Pyruvic Acid. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7294-7303. | 1.1 | 61 |
| 28 | Ionization state of <i>l</i> -Phenylalanine at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2013, 135, 710-716. | 6.6 | 59 |
| 29 | The multiphoton ionization spectra of pyridine and pyrazine. <i>Chemical Physics</i> , 1978, 28, 47-54. | 0.9 | 58 |
| 30 | Multiphase Photochemistry of Pyruvic Acid under Atmospheric Conditions. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3327-3339. | 1.1 | 57 |
| 31 | Singlet and triplet exciton percolation in benzene isotopic mixed crystals. <i>Journal of Chemical Physics</i> , 1977, 67, 4941-4947. | 1.2 | 56 |
| 32 | Phenylalanine Increases Membrane Permeability. <i>Journal of the American Chemical Society</i> , 2017, 139, 14388-14391. | 6.6 | 55 |
| 33 | The (<i>n</i> 0-3s) Rydberg state of acetone: absorption spectroscopy of jet-cooled acetone and acetone-d ₆ . <i>The Journal of Physical Chemistry</i> , 1988, 92, 2762-2766. | 2.9 | 54 |
| 34 | Direct Absorption Spectroscopy of Water Clusters. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8620-8624. | 1.1 | 53 |
| 35 | The direct ultraviolet absorption spectrum of the $A' \sim A_2''$ $\tilde{r}aw. \sim X^1A_1$ transition of jet-cooled ammonia. <i>The Journal of Physical Chemistry</i> , 1984, 88, 3397-3400. | 2.9 | 52 |
| 36 | Aggregation of water molecules: Atmospheric implications. <i>Journal of Chemical Physics</i> , 2000, 113, 6652-6659. | 1.2 | 50 |

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|----|--|-----|-----------|
| 37 | Hydration of pyruvic acid to its geminal-diol, 2,2-dihydroxypropanoic acid, in a water-restricted environment. <i>Chemical Physics Letters</i> , 2011, 513, 184-190. | 1.2 | 50 |
| 38 | Mechanistic Description of Photochemical Oligomer Formation from Aqueous Pyruvic Acid. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4272-4282. | 1.1 | 50 |
| 39 | Multiphoton transitions in trans-butadiene observed by multiphoton ionization and thermal lensing spectroscopy. <i>Chemical Physics Letters</i> , 1978, 54, 25-29. | 1.2 | 48 |
| 40 | pH Dependence of the Aqueous Photochemistry of α -Keto Acids. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8368-8379. | 1.1 | 48 |
| 41 | The determination of the manganese-manganese bond strength in $Mn_2(CO)_{10}$ using pulsed time-resolved photoacoustic calorimetry. <i>Organometallics</i> , 1986, 5, 815-816. | 1.1 | 47 |
| 42 | Photoinitiated Synthesis of Self-Assembled Vesicles. <i>Journal of the American Chemical Society</i> , 2014, 136, 3784-3787. | 6.6 | 47 |
| 43 | Interaction of L-Phenylalanine with a Phospholipid Monolayer at the Water-Air Interface. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9038-9048. | 1.2 | 47 |
| 44 | Cluster-induced potential shifts as a probe for dissociation dynamics in the (n-3s) Rydberg state of acetone. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2766-2769. | 2.9 | 45 |
| 45 | Vibrational overtone induced elimination reactions within hydrogen-bonded molecular clusters: the dynamics of water catalyzed reactions in $CH_2FOH \cdot (H_2O)_n$. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3864-3871. | 1.3 | 44 |
| 46 | Near Infrared Photochemistry of Pyruvic Acid in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5840-5846. | 1.1 | 43 |
| 47 | Application of time-resolved photoacoustic calorimetry to Cr-L bond enthalpies in $Cr(CO)_5L$. <i>Polyhedron</i> , 1988, 7, 1619-1622. | 1.0 | 42 |
| 48 | Photolysis of sulfuric acid vapor by visible light as a source of the polar stratospheric CN layer. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 42 |
| 49 | Permeability of Acetic Acid through Organic Films at the Air-Aqueous Interface. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7581-7587. | 1.1 | 42 |
| 50 | Organic Peroxyl Radical Photolysis in the Near-Infrared: Effects on Tropospheric Chemistry. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10169-10178. | 1.1 | 41 |
| 51 | Experimental and Theoretical Investigation of Vibrational Overtones of Glycolic Acid and Its Hydrogen Bonding Interactions with Water. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6439-6446. | 1.1 | 41 |
| 52 | Gas-Phase Photolysis of Pyruvic Acid: The Effect of Pressure on Reaction Rates and Products. <i>Journal of Physical Chemistry A</i> , 2016, 120, 10123-10133. | 1.1 | 41 |
| 53 | Hydrophobic Collapse of a Stearic Acid Film by Adsorbed L-Phenylalanine at the Air-Water Interface. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7849-7857. | 1.2 | 40 |
| 54 | Intramolecular Interactions in 2-Aminoethanol and 3-Aminopropanol. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10260-10273. | 1.1 | 40 |

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| 55 | Aqueous Phase Oligomerization of Methyl Vinyl Ketone by Atmospheric Radical Reactions. Journal of Physical Chemistry C, 2014, 118, 29421-29430. | 1.5 | 39 |
| 56 | Water-Air Interfaces as Environments to Address the Water Paradox in Prebiotic Chemistry: A Physical Chemistry Perspective. Journal of Physical Chemistry A, 2021, 125, 4929-4942. | 1.1 | 39 |
| 57 | Electronic absorption spectroscopy of jet-cooled molecules. Accounts of Chemical Research, 1986, 19, 114-120. | 7.6 | 38 |
| 58 | Experimental absolute intensities of the $4\hat{1}/2$ and $5\hat{1}/2$ O-H stretching overtones of H ₂ SO ₄ . Chemical Physics Letters, 2006, 420, 438-442. | 1.2 | 38 |
| 59 | Ultraviolet absorption determination of intramolecular predissociation dynamics in methyl iodide dimers ((CH ₃) ₂ and (CD ₃) ₂). The Journal of Physical Chemistry, 1988, 92, 1204-1208. | 2.9 | 37 |
| 60 | Strength of the metal-ligand bond in LCr(CO) ₅ measured by photoacoustic calorimetry. Chemical Physics Letters, 1986, 125, 566-568. | 1.2 | 35 |
| 61 | Overtone Spectroscopy of Sulfonic Acid Derivatives. Journal of Physical Chemistry A, 2007, 111, 5434-5440. | 1.1 | 35 |
| 62 | Atmospheric Simulation Chamber Studies of the Gas-Phase Photolysis of Pyruvic Acid. Journal of Physical Chemistry A, 2017, 121, 8348-8358. | 1.1 | 35 |
| 63 | Prebiotic phosphorylation enabled by microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12359-12361. | 3.3 | 35 |
| 64 | Cavity-Enhanced Measurements of Hydrogen Peroxide Absorption Cross Sections from 353 to 410 nm. Journal of Physical Chemistry A, 2012, 116, 5941-5947. | 1.1 | 34 |
| 65 | Uptake of Chlorine Dioxide by Model Polar Stratospheric Cloud Surfaces: An Ultrahigh-Vacuum Studies. The Journal of Physical Chemistry, 1996, 100, 3115-3120. | 2.9 | 33 |
| 66 | Effect of Dimers on the Temperature-Dependent Absorption Cross Section of Methyl Iodide. The Journal of Physical Chemistry, 1996, 100, 11559-11565. | 2.9 | 33 |
| 67 | Photoreactivity of Oxygen Dimers in the Ultraviolet. The Journal of Physical Chemistry, 1996, 100, 7849-7853. | 2.9 | 33 |
| 68 | A comparison of experimental and calculated spectra of HNO ₃ in the near-infrared using Fourier transform infrared spectroscopy and vibrational perturbation theory. Journal of Chemical Physics, 2006, 124, 124323. | 1.2 | 33 |
| 69 | SH-Stretching Vibrational Spectra of Ethanethiol and <i>tert</i> -Butylthiol. Journal of Physical Chemistry A, 2009, 113, 7576-7583. | 1.1 | 33 |
| 70 | Atmospheric radical chemistry revisited. Science, 2016, 353, 650-650. | 6.0 | 33 |
| 71 | Atmospheric Hydroxyl Radical Source: Reaction of Triplet SO ₂ and Water. Journal of Physical Chemistry A, 2018, 122, 4465-4469. | 1.1 | 33 |
| 72 | Interfacial properties of mixed films of long-chain organics at the air-water interface. Atmospheric Environment, 2006, 40, 6606-6614. | 1.9 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Environmental Processing of Lipids Driven by Aqueous Photochemistry of α -Keto Acids. ACS Central Science, 2018, 4, 624-630. | 5.3 | 32 |
| 74 | Electronic spectroscopy of organic acid dimers. Chemical Physics Letters, 2001, 343, 159-165. | 1.2 | 30 |
| 75 | Vapor-Phase Vibrational Spectrum of Glycolic Acid, CH ₂ OHCOOH, in the Region 2000~8500 cm ⁻¹ . Journal of Physical Chemistry A, 2004, 108, 9069-9073. | 1.1 | 30 |
| 76 | Will water act as a photocatalyst for cluster phase chemical reactions? Vibrational overtone-induced dehydration reaction of methanediol. Journal of Chemical Physics, 2012, 136, 164302. | 1.2 | 30 |
| 77 | Chemical Equilibria and Kinetics in Aqueous Solutions of Zymonic Acid. Journal of Physical Chemistry A, 2016, 120, 10096-10107. | 1.1 | 30 |
| 78 | Surface crossings and predissociation dynamics of methyl iodide Rydberg states. Journal of Chemical Physics, 1988, 88, 7410-7417. | 1.2 | 29 |
| 79 | Intramolecular Hydrogen Bonding in Methyl Lactate. Journal of Physical Chemistry A, 2015, 119, 9692-9702. | 1.1 | 29 |
| 80 | Chemistry and Photochemistry of Pyruvic Acid at the Air~Water Interface. Journal of Physical Chemistry A, 2021, 125, 1036-1049. | 1.1 | 29 |
| 81 | Fourier transform ultraviolet absorption spectroscopy of jet-cooled chlorine dioxide. The Journal of Physical Chemistry, 1989, 93, 6346-6350. | 2.9 | 28 |
| 82 | Uptake of Chlorine Dioxide by Model PSCs under Stratospheric Conditions. The Journal of Physical Chemistry, 1996, 100, 3121-3125. | 2.9 | 27 |
| 83 | Miscibility of Perfluorododecanoic Acid with Organic Acids at the Air~Water Interface. Journal of Physical Chemistry C, 2007, 111, 9975-9980. | 1.5 | 27 |
| 84 | Acetic acid formation via the hydration of gas-phase ketene under ambient conditions. Chemical Physics Letters, 2013, 565, 1-4. | 1.2 | 27 |
| 85 | Sunlight-Initiated Photochemistry: Excited Vibrational States of Atmospheric Chromophores. International Journal of Photoenergy, 2008, 2008, 1-13. | 1.4 | 26 |
| 86 | Sunlight-initiated Chemistry of Aqueous Pyruvic Acid: Building Complexity in the Origin of Life. Origins of Life and Evolution of Biospheres, 2013, 43, 341-352. | 0.8 | 26 |
| 87 | Photochemical Synthesis of Oligomeric Amphiphiles from Alkyl Oxoacids in Aqueous Environments. Journal of the American Chemical Society, 2017, 139, 6946-6959. | 6.6 | 26 |
| 88 | Electronic spectrum of carbon oxide sulfide (OCS) at 62,000-72,000 cm ⁻¹ . The Journal of Physical Chemistry, 1988, 92, 5875-5879. | 2.9 | 25 |
| 89 | Competing photochemical pathways of chlorine oxide (OCIO) in polar solution. The Journal of Physical Chemistry, 1991, 95, 6060-6063. | 2.9 | 25 |
| 90 | Calculated electronic transitions of the water ammonia complex. Journal of Chemical Physics, 2008, 128, 034302. | 1.2 | 25 |

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| 91 | Experimental and Theoretical Study of the OH Vibrational Spectra and Overtone Chemistry of Gas-Phase Vinylacetic Acid. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10226-10235. | 1.1 | 24 |
| 92 | Oxidized Aromatic-Aliphatic Mixed Films at the Air-Aqueous Solution Interface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22341-22350. | 1.5 | 24 |
| 93 | Red sky at night: Long-wavelength photochemistry in the atmosphere. <i>Environmental Science & Technology</i> , 2010, 44, 5321-5326. | 4.6 | 23 |
| 94 | Heterogeneous Interactions between Gas-Phase Pyruvic Acid and Hydroxylated Silica Surfaces: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 983-991. | 1.1 | 23 |
| 95 | Dynamics and spectroscopy of vibrational overtone excited glyoxylic acid and 2,2-dihydroxyacetic acid in the gas-phase. <i>Journal of Chemical Physics</i> , 2010, 132, 094305. | 1.2 | 22 |
| 96 | Phonon assisted trap-triplet energy migration in the 0 K limit in crystalline benzene. <i>Journal of Chemical Physics</i> , 1977, 66, 2187-2190. | 1.2 | 21 |
| 97 | Photofragmentation of transition-metal-cluster carbonyls in the gas phase. <i>The Journal of Physical Chemistry</i> , 1986, 90, 1235-1240. | 2.9 | 21 |
| 98 | Photodissociation of carbon oxide sulfide and carbon disulfide dimers: competing photochemical pathways. <i>The Journal of Physical Chemistry</i> , 1989, 93, 1836-1840. | 2.9 | 21 |
| 99 | Gas-phase hydrolysis of triplet SO ₂ : A possible direct route to atmospheric acid formation. <i>Scientific Reports</i> , 2016, 6, 30000. | 1.6 | 21 |
| 100 | Conformer-Specific Photolysis of Pyruvic Acid and the Effect of Water. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1240-1252. | 1.1 | 21 |
| 101 | Gas phase infrared spectroscopic observation of the organic acid dimers (CH ₃ (CH ₂) ₆ COOH) ₂ , (CH ₃ (CH ₂) ₇ COOH) ₂ , and (CH ₃ (CH ₂) ₈ COOH) ₂ . <i>Chemical Physics Letters</i> , 2005, 402, 239-244. | 1.2 | 20 |
| 102 | Photodissociation yields for vibrationally excited states of sulfuric acid under atmospheric conditions. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 20 |
| 103 | The spectroscopy of OCIO in polar liquids. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 1293-1301. | 0.1 | 19 |
| 104 | Ultraviolet Spectroscopy of the Gas Phase Hydration of Methylglyoxal. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 345-352. | 1.2 | 19 |
| 105 | Spectroscopy of the (no-3s) Rydberg state of isolated and clustered acetaldehyde. <i>The Journal of Physical Chemistry</i> , 1988, 92, 5514-5517. | 2.9 | 18 |
| 106 | Emerging Areas in Atmospheric Photochemistry. <i>Topics in Current Chemistry</i> , 2012, 339, 1-53. | 4.0 | 18 |
| 107 | Dynamics of intermediates in the .alpha.- and .beta.-elimination processes in CpW(CO) ₂ Me and CpW(CO) ₂ Et measured on the microsecond time scale. <i>Journal of the American Chemical Society</i> , 1986, 108, 2511-2513. | 6.6 | 17 |
| 108 | Surface Partitioning and Stability of Pure and Mixed Films of 8-Fluorotelomer Alcohol at the Air-Water Interface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11612-11618. | 1.5 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | The Partitioning of Small Aromatic Molecules to Air-Water and Phospholipid Interfaces Mediated by Non-Hydrophobic Interactions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7408-7422. | 1.2 | 17 |
| 110 | Measurements of high-resolution ultraviolet-visible absorption cross sections at stratospheric temperatures: 1. Nitrogen dioxide. <i>Journal of Geophysical Research</i> , 1996, 101, 3869-3877. | 3.3 | 15 |
| 111 | Gas-Phase Reaction Kinetics of Pyruvic Acid with OH Radicals: The Role of Tunneling, Complex Formation, and Conformational Structure. <i>Journal of Physical Chemistry A</i> , 2020, 124, 790-800. | 1.1 | 15 |
| 112 | Intermolecular mixing of electronic states in chemically mixed molecular crystals. <i>Journal of Chemical Physics</i> , 1977, 67, 710-714. | 1.2 | 14 |
| 113 | Temperature-dependent infrared spectra of torsional vibrations in acetic acid. <i>Journal of Molecular Spectroscopy</i> , 2005, 229, 151-157. | 0.4 | 14 |
| 114 | Overtone Spectra of 2-Mercaptoethanol and 1,2-Ethanedithiol. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12692-12700. | 1.1 | 14 |
| 115 | Local structure and triplet energy migration in p-dichlorobenzene-p-dibromobenzene solid solutions. <i>Molecular Physics</i> , 1978, 35, 965-974. | 0.8 | 13 |
| 116 | Effects of nonresonant ionization on multiphoton ionization line shapes. <i>Journal of Chemical Physics</i> , 1981, 75, 4403-4412. | 1.2 | 13 |
| 117 | Spectroscopic and photochemical perturbations of weak interactions on electronic surfaces of methyl iodide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 2043. | 1.7 | 13 |
| 118 | Fourier transform UV/VIS emission spectroscopy of jet-cooled CN(B $2\tilde{\Sigma}^+$). <i>Chemical Physics Letters</i> , 1989, 157, 295-299. | 1.2 | 12 |
| 119 | Chemistry and Photochemistry of Pyruvic Acid Adsorbed on Oxide Surfaces. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7661-7671. | 1.1 | 12 |
| 120 | Reply to Eugene et al.: Photochemistry of aqueous pyruvic acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4276. | 3.3 | 11 |
| 121 | Absorption spectroscopy of jet-cooled CS ₂ : the linear excited state at 55741 to 60241 cm ⁻¹ . <i>Chemical Physics Letters</i> , 1991, 184, 152-158. | 1.2 | 10 |
| 122 | Gas-phase multiphoton dissociation of iron carbonyls. <i>The Journal of Physical Chemistry</i> , 1983, 87, 3635-3638. | 2.9 | 9 |
| 123 | Vibrational Spectroscopy of Perfluorocarboxylic Acids from the Infrared to the Visible Regions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 276-282. | 1.2 | 9 |
| 124 | Direct absorption spectroscopy of the first excited electronic band of jet-cooled H ₂ S. <i>Chemical Physics Letters</i> , 1993, 215, 329-335. | 1.2 | 8 |
| 125 | Measurements of high-resolution ultraviolet-visible absorption cross sections at stratospheric temperatures: 2. Chlorine dioxide. <i>Journal of Geophysical Research</i> , 1996, 101, 3879-3884. | 3.3 | 8 |
| 126 | The primary photo-dissociation dynamics of lactate in aqueous solution: decarboxylation prevents dehydroxylation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4555-4568. | 1.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Sequential Two-Photon Dissociation of Atmospheric Water. <i>Journal of Physical Chemistry A</i> , 2001, 105, 70-75. | 1.1 | 7 |
| 128 | Chemistry in Prebiotic Aerosols: A Mechanism for the Origin of Life. , 2004, , 153-165. | | 7 |
| 129 | Characterization of the nitric acid-water complex in the infrared and near-infrared region at ambient temperatures in carbon tetrachloride. <i>Chemical Physics Letters</i> , 2009, 473, 268-273. | 1.2 | 7 |
| 130 | Lactic Acid Spectroscopy: Intra- and Intermolecular Interactions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 218-229. | 1.1 | 7 |
| 131 | Photooxidation of CS ₂ in the near-ultraviolet and its atmospheric implications. <i>Geophysical Research Letters</i> , 1995, 22, 2609-2612. | 1.5 | 6 |
| 132 | Ocean Sea Spray, Clouds, and Climate. <i>ACS Central Science</i> , 2015, 1, 112-114. | 5.3 | 5 |
| 133 | Photoreactivity of Molecular Aggregates. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992, 96, 395-399. | 0.9 | 4 |
| 134 | Comment on "Reactivity of Ketyl and Acetyl Radicals from Direct Solar Actinic Photolysis of Aqueous Pyruvic Acid". <i>Journal of Physical Chemistry A</i> , 2017, 121, 8738-8740. | 1.1 | 4 |
| 135 | Reactivity of Electronically Excited SO ₂ with Alkanes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7782-7789. | 1.1 | 4 |
| 136 | Kinetic Study of Gas-Phase Reactions of Pyruvic Acid with HO ₂ . <i>Journal of Physical Chemistry A</i> , 2021, 125, 2232-2242. | 1.1 | 4 |
| 137 | Infrared spectroscopy of 2-oxo-octanoic acid in multiple phases. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6757-6768. | 1.3 | 4 |
| 138 | Resolved emission from compound states in chemically mixed crystals. <i>Journal of Chemical Physics</i> , 1976, 64, 4224-4225. | 1.2 | 3 |
| 139 | Lactic acid photochemistry following excitation of S ₀ to S ₁ at 220 to 250 nm. <i>Journal of Physical Organic Chemistry</i> , 0, , e4316. | 0.9 | 3 |
| 140 | Gas-phase photofragmentation of Co ₃ (CO) ₉ CCH ₃ . <i>Organometallics</i> , 1989, 8, 1614-1615. | 1.1 | 2 |
| 141 | Spectroscopic Characterization of Supersonic Molecular Beams. <i>Israel Journal of Chemistry</i> , 1997, 37, 387-393. | 1.0 | 2 |
| 142 | Publications of Veronica Vaida. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1168-1174. | 1.1 | 1 |
| 143 | Fourier transform spectroscopy of radicals. <i>Advances in Molecular Structure Research</i> , 1995, , 157-199. | 0.3 | 1 |
| 144 | Surface Activity of Perfluorinated Compounds at the Air-Water Interface. <i>ACS Symposium Series</i> , 2009, , 65-77. | 0.5 | 0 |

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|-----|---|-----|-----------|
| 145 | Introduction to the special issue on atmospheric spectroscopy. Journal of Molecular Spectroscopy, 2016, 323, 1. | 0.4 | 0 |
| 146 | Spectroscopy of Predissociating Molecules. , 1987, , 253-261. | | 0 |
| 147 | Photodissociation of Gas Phase Metal Clusters. , 1989, , 353-367. | | 0 |
| 148 | Aqueous Interfaces. , 2015, , 115-117. | | 0 |