

Dean S Venables

List of Publications by Year in descending order

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51
papers

2,014
citations

257450

24
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254184

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62
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docs citations

62
times ranked

2220
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopy and dynamics of mixtures of water with acetone, acetonitrile, and methanol. <i>Journal of Chemical Physics</i> , 2000, 113, 11222-11236.	3.0	198
2	Effect of Reverse Micelle Size on the Librational Band of Confined Water and Methanol. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9132-9138.	2.6	152
3	Incoherent Broadband Cavity-Enhanced Absorption Spectroscopy in the near-Ultraviolet: Application to HONO and NO ₂ . <i>Environmental Science & Technology</i> , 2008, 42, 890-895.	10.0	137
4	High Sensitivity in Situ Monitoring of NO ₃ in an Atmospheric Simulation Chamber Using Incoherent Broadband Cavity-Enhanced Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2006, 40, 6758-6763.	10.0	127
5	Far-infrared spectra and associated dynamics in acetonitrile-water mixtures measured with femtosecond THz pulse spectroscopy. <i>Journal of Chemical Physics</i> , 1998, 108, 4935-4944.	3.0	126
6	Long optical cavities for open-path monitoring of atmospheric trace gases and aerosol extinction. <i>Applied Optics</i> , 2009, 48, B159.	2.1	84
7	Enhanced Volatile Organic Compounds emissions and organic aerosol mass increase the oligomer content of atmospheric aerosols. <i>Scientific Reports</i> , 2016, 6, 35038.	3.3	80
8	Intercomparison of measurements of NO ₂ concentrations in the atmosphere simulation chamber SAPHIR during the NO ₃ Comp campaign. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 21-37.	3.1	77
9	Molecular composition of fresh and aged secondary organic aerosol from a mixture of biogenic volatile compounds: a high-resolution mass spectrometry study. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5683-5695.	4.9	74
10	Near-Ultraviolet Absorption Cross Sections of Nitrophenols and Their Potential Influence on Tropospheric Oxidation Capacity. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12235-12242.	2.5	73
11	Molecular composition of biogenic secondary organic aerosols using ultrahigh-resolution mass spectrometry: comparing laboratory and field studies. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2155-2167.	4.9	70
12	Reduction of tungsten oxides with hydrogen and with hydrogen and carbon. <i>Thermochimica Acta</i> , 1996, 285, 361-382.	2.7	60
13	Structure and dynamics of nonaqueous mixtures of dipolar liquids. I. Infrared and far-infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2000, 113, 3243-3248.	3.0	55
14	A broadband optical cavity spectrometer for measuring weak near-ultraviolet absorption spectra of gases. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 425-436.	3.1	54
15	Structure and dynamics of nonaqueous mixtures of dipolar liquids. II. Molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2000, 113, 3249-3260.	3.0	51
16	Intercomparison of NO ₃ radical detection instruments in the atmosphere simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1111-1140.	3.1	49
17	Light extinction by secondary organic aerosol: an intercomparison of three broadband cavity spectrometers. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3115-3130.	3.1	48
18	Reduction of tungsten oxides with carbon monoxide. <i>Thermochimica Acta</i> , 1997, 291, 131-140.	2.7	44

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19	The influence of photochemical aging on light absorption of atmospheric black carbon and aerosol single-scattering albedo. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16829-16844.	4.9	40
20	Optical properties of atmospheric fine particles near Beijing during the HOPE-J<sup>3</sup>A campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6421-6439.	4.9	38
21	Portable broadband cavity-enhanced spectrometer utilizing Kalman filtering: application to real-time, in situ monitoring of glyoxal and nitrogen dioxide. <i>Optics Express</i> , 2017, 25, 26910.	3.4	37
22	Reduction of tungsten oxides with carbon. Part 1: Thermal analyses. <i>Thermochimica Acta</i> , 1996, 282-283, 251-264.	2.7	35
23	The rotationally-resolved absorption spectrum of formaldehyde from 6547 to 6804cm ⁻¹ . <i>Journal of Molecular Spectroscopy</i> , 2005, 229, 115-121.	1.2	28
24	Reduction of tungsten oxides with carbon. Part 2. Tube furnace experiments. <i>Thermochimica Acta</i> , 1996, 282-283, 265-276.	2.7	24
25	Open path incoherent broadband cavity-enhanced measurements of NO ₃ radical and aerosol extinction in the North China Plain. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 208, 24-31.	3.9	22
26	Combustion of some zinc-fuelled binary pyrotechnic systems. <i>Thermochimica Acta</i> , 1995, 256, 309-324.	2.7	21
27	Coastal Iodine Emissions. 1. Release of I ₂ by <i>Laminaria digitata</i> in Chamber Experiments. <i>Environmental Science & Technology</i> , 2012, 46, 10413-10421.	10.0	20
28	Upper limits for absorption by water vapor in the near-UV. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 170, 194-199.	2.3	20
29	Design and characterization of a novel single-particle polar nephelometer. <i>Aerosol Science and Technology</i> , 2016, 50, 392-404.	3.1	19
30	The seaweeds <i>Fucus vesiculosus</i> and <i>Ascophyllum nodosum</i> are significant contributors to coastal iodine emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5255-5264.	4.9	18
31	Three-wavelength cavity-enhanced albedometer for measuring wavelength-dependent optical properties and single-scattering albedo of aerosols. <i>Optics Express</i> , 2018, 26, 33484.	3.4	16
32	Cavity-enhanced absorption using an atomic line source: application to deep-UV measurements. <i>Analyst</i> , 2012, 137, 2318.	3.5	15
33	Development of an incoherent broad-band cavity-enhanced aerosol extinction spectrometer and its application to measurement of aerosol optical hygroscopicity. <i>Applied Optics</i> , 2017, 56, E16.	2.1	15
34	Coastal Iodine Emissions: Part 2. Chamber Experiments of Particle Formation from <i>Laminaria digitata</i> -Derived and Laboratory-Generated I ₂ . <i>Environmental Science & Technology</i> , 2012, 46, 10422-10428.	10.0	13
35	Improved spherical mirror multipass-cell-based interband cascade laser spectrometer for detecting ambient formaldehyde at parts per trillion by volume levels. <i>Applied Optics</i> , 2019, 58, 8743.	1.8	10
36	Removing Water Vapor Interference in Peroxy Radical Chemical Amplification with a Large Diameter Nafion Dryer. <i>Analytical Chemistry</i> , 2018, 90, 3307-3312.	6.5	9

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37	Simultaneous measurements of the relative-humidity-dependent aerosol light extinction, scattering, absorption, and single-scattering albedo with a humidified cavity-enhanced albedometer. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2623-2634.	3.1	9
38	A novel, broadband spectroscopic method to measure the extinction coefficient of aerosols in the near-ultraviolet. , 2013, , .		8
39	A thermoanalytical study of some zinc-fuelled binary pyrotechnic systems. <i>Thermochimica Acta</i> , 1995, 269-270, 649-663.	2.7	7
40	A Demonstration of Broadband Cavity-Enhanced Absorption Spectroscopy at Deep-Ultraviolet Wavelengths: Application to Sensitive Real-Time Detection of the Aromatic Pollutants Benzene, Toluene, and Xylene. <i>Analytical Chemistry</i> , 2022, 94, 4286-4293.	6.5	6
41	Improving the accuracy and precision of broadband optical cavity measurements. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 218, 178-183.	3.9	5
42	Using integrated absorption to calibrate optical cavity spectrometers. <i>Analytical Methods</i> , 2015, 7, 3298-3301.	2.7	4
43	Amplitude-Modulated Cavity-Enhanced Absorption Spectroscopy with Phase-Sensitive Detection: A New Approach Applied to the Fast and Sensitive Detection of NO ₂ . <i>Analytical Chemistry</i> , 2022, , .	6.5	4
44	Broadband cavity-enhanced absorption spectroscopy for trace gas detection. , 2005, 5826, 202.		2
45	Broadband optical cavity methods. , 2021, , 95-158.		2
46	Techniques for measuring indoor radicals and radical precursors. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 580-624.	6.7	2
47	Applications of Spectroscopy in Environmental Monitoring of Gases and Aerosols. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-1.	1.3	1
48	Study of nephelometer correction factors in winter Shanghai. , 2016, , .		1
49	Exploration of the short-wavelength optical properties of particles using broadband optical cavity spectroscopy. , 2016, , .		0
50	A DIRECT MEASUREMENT OF INTERMOLECULAR SOLVATION DYNAMICS USING TIME-RESOLVED THZ SPECTROSCOPY (TRTS). , 2000, , .		0
51	A new Field Instrument for NO ₃ Detection using Incoherent Broadband Cavity Enhanced Spectroscopy. , 2008, , .		0