Jonathan E Thompson

List of Publications by Year
in descending order

47 papers	1,409 citations	331670 21 h-index	345221 36 g-index
52 all docs	52 docs citations	52 times ranked	1780 citing authors

#	Article	IF	Citations
1	Characterization of colored products formed during irradiation of aqueous solutions containing H2O2 and phenolic compounds. Atmospheric Environment, 2010, 44, 541-551.	4.1	156
2	Airborne Particulate Matter. Journal of Occupational and Environmental Medicine, 2018, 60, 392-423.	1.7	128
3	In vivo monitoring of amino acids by direct sampling of brain extracellular fluid at ultralow flow rates and capillary electrophoresis. Journal of Neuroscience Methods, 2002, 114, 39-49.	2.5	110
4	Light scattering and absorption by wind blown dust: Theory, measurement, and recent data. Aeolian Research, 2010, 2, 5-26.	2.7	94
5	Crowd-sourced air quality studies: A review of the literature & portable sensors. Trends in Environmental Analytical Chemistry, 2016, 11, 23-34.	10.3	83
6	Fast Analytical-Scale Separations by Capillary Electrophoresis and Liquid Chromatography. Chemical Reviews, 1999, 99, 3081-3132.	47.7	68
7	Rapid Determination of Aspartate Enantiomers in Tissue Samples by Microdialysis Coupled On-Line with Capillary Electrophoresis. Analytical Chemistry, 1999, 71, 2379-2384.	6.5	61
8	Evaluation of a quantitative structureâ€“property relationship (QSPR) for predicting mid-visible refractive index of secondary organic aerosol (SOA). Physical Chemistry Chemical Physics, 2011, 13, 6872.	2.8	57
9	Monitoring Atmospheric Particulate Matter through Cavity Ring-Down Spectroscopy. Analytical Chemistry, 2002, 74, 1962-1967.	6.5	52
10	Additive manufacturing (3D printing) for analytical chemistry. Talanta Open, 2021, 3, 100036.	3.7	49
11	Aerosol optical properties at Pasadena, CA during CalNex 2010. Atmospheric Environment, 2012, 55, 190-200.	4.1	47
12	A fixed frequency aerosol albedometer. Optics Express, 2008, 16, 2191.	3.4	44
13	Optically Gated Capillary Electrophoresis ofo-Phthalaldehyde/Î²-Mercaptoethanol Derivatives of Amino Acids for Chemical Monitoring. Analytical Chemistry, 1998, 70, 4015-4022.	6.5	38
14	Simultaneous Measurement of Optical Scattering and Extinction on Dispersed Aerosol Samples. Analytical Chemistry, 2010, 82, 7885-7896.	6.5	34
15	Optical Properties of Dispersed Aerosols in the Near Ultraviolet (355 nm): Measurement Approach and Initial Data. Analytical Chemistry, 2012, 84, 5611-5617.	6.5	33
16	Personal monitoring of ozone exposure: A fully portable device for under $150 USD cost. Sensors and Actuators B: Chemical, 2016, 224, 936-943.	7.8	29
17	Light Scattering and Extinction Measurements Combined with Laser-Induced Incandescence for the Real-Time Determination of Soot Mass Absorption Cross Section. Analytical Chemistry, 2013, 85, 9181-9188.	6.5	28
18	Tungsten source integrated cavity output spectroscopy for the determination of ambient atmospheric extinction coefficient. Applied Optics, 2006, 45, 2465.	2.1	26

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19	Atmospheric Aerosol Measurements by Cavity Ringdown Turbidimetry. Aerosol Science and Technology, 2003, 37, 221-230.	3.1	24
20	The chemical evolution & physical properties of organic aerosol: A molecular structure based approach. Atmospheric Environment, 2012, 62, 199-207.	4.1	23
21	UV-C LED Irradiation Reduces Salmonella on Chicken and Food Contact Surfaces. Foods, 2021, 10, 1459.	4.3	23
22	Designing, Constructing, and Using an Inexpensive Electronic Buret. Journal of Chemical Education, 2015, 92, 106-109.	2.3	22
23	Cavity ring-down lossmeter using a pulsed light emitting diode source and photon counting. Measurement Science and Technology, 2007, 18, 147-154.	2.6	19
24	Portable, Ambient PM_{2.5} Sensor for Human and/or Animal Exposure Studies. Analytical Letters, 2017, 50, 712-723.	1.8	19
25	Personal Exposure Estimates via Portable and Wireless Sensing and Reporting of Particulate Pollution. International Journal of Environmental Research and Public Health, 2020, 17, 843.	2.6	16
26	Remote Sensing of Atmospheric Optical Depth Using a Smartphone Sun Photometer. PLoS ONE, 2014, 9, e84119.	2.5	14
27	An Inexpensive Device for Capillary Electrophoresis with Fluorescence Detection. Journal of Chemical Education, 2006, 83, 1677.	2.3	11
28	Learning Laboratory Chemistry through Electronic Sensors, a Microprocessor, and Student Enabling Software: A Preliminary Demonstration. Journal of Chemical Education, 2017, 94, 1562-1566.	2.3	11
29	Survey data reflecting popular opinions of the causes and mitigation of climate change. Data in Brief, 2017, 14, 412-439.	1.0	10
30	Characterization of a novel particle into liquid sampler for analysis of single fluorescent aerosol particles through capillary electrophoresis. Analytica Chimica Acta, 2011, 702, 120-126.	5.4	8
31	Modeling and measurements of angular truncation for an aerosol albedometer. Journal of the European Optical Society-Rapid Publications, 0, 7, .	1.9	7
32	Pencil-on-Paper Capacitors for Hand-Drawn RC Circuits and Capacitive Sensing. Journal of Chemistry, 2017, 2017, 1-4.	1.9	6
33	A Simple, Inexpensive Water-Jacketed Cuvette for the Spectronic 20. Journal of Chemical Education, 2004, 81, 1341.	2.3	5
34	Rayleigh scattering measurements of several fluorocarbon gases. Journal of Environmental Monitoring, 2011, 13, 3294.	2.1	5
35	Effect of particle mixing morphology on aerosol scattering and absorption: A discrete dipole modeling study. GeoResJ, 2014, 3-4, 9-18.	1.4	5
36	Cavity-Enhanced Spectroscopy in Condensed Phases: Recent Literature and Remaining Challenges. Journal of Spectroscopy, 2017, 2017, 1-10.	1.3	5

#	Article	IF	Citations
37	Evaluation of microvolume regenerated cellulose (RC) microdialysis fibers for the sampling and detection of ammonia in air. Talanta, 2010, 81, 1350-1356.	5.5	4
38	My Dear Buret, Your Time Has Indeed Come!. Journal of Chemical Education, 2016, 93, 988-989.	2.3	4
39	Low-Cost Microplate Reader with 3D Printed Parts for under 500 USD. Sensors, 2022, 22, 3242.	3.8	4
40	Optical properties of Aeolian dusts common to West Texas. Aeolian Research, 2011, 3, 235-242.	2.7	3
41	The aqueous phase nitration of phenol and benzoic acid studied through flow-gated capillary electrophoresis. International Journal of Environmental Analytical Chemistry, 2013, 93, 1329-1341.	3.3	3
42	A model for absorption of solar radiation by mineral dust within liquid cloud drops. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 133, 121-128.	1.6	3
43	A Simple Method for Rapidly Obtaining Absorption Spectra with a Spectronic-20D+ Spectrophotometer. Journal of Chemical Education, 2006, 83, 913.	2.3	2
44	Parts-per-billion Limits of Detection via Absorbance Spectroscopy: An Ultraviolet (254 nm) Absorbance Detector for Liquid Chromatography using a Light Emitting Diode (LED). Eurasian Journal of Analytical Chemistry, 2017, 12, 901-911.	0.4	2
45	Wireless Transmission and Logging of Measurement Data Through Cellular Networks. NCSL International Measure, 2018, 12, 26-31.	0.1	1
46	Climate Science Needs Effective Imagens. Journal of Astrophysics & Aerospace Technology, 2017, 08, .	0.1	0
47	Improved Measurement Performance for the Sharp GP2Y1010 Dust Sensor: Reduction of Noise. Atmosphere, 2021, 12, 775.	2.3	0