

Jonathan E Thompson

List of Publications by Year in descending order

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Version: 2024-02-01

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	Low-Cost Microplate Reader with 3D Printed Parts for under 500 USD. <i>Sensors</i> , 2022, 22, 3242.	3.8	4
2	UV-C LED Irradiation Reduces Salmonella on Chicken and Food Contact Surfaces. <i>Foods</i> , 2021, 10, 1459.	4.3	23
3	Improved Measurement Performance for the Sharp GP2Y1010 Dust Sensor: Reduction of Noise. <i>Atmosphere</i> , 2021, 12, 775.	2.3	0
4	Additive manufacturing (3D printing) for analytical chemistry. <i>Talanta Open</i> , 2021, 3, 100036.	3.7	49
5	Personal Exposure Estimates via Portable and Wireless Sensing and Reporting of Particulate Pollution. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 843.	2.6	16
6	Airborne Particulate Matter. <i>Journal of Occupational and Environmental Medicine</i> , 2018, 60, 392-423.	1.7	128
7	Wireless Transmission and Logging of Measurement Data Through Cellular Networks. <i>NCSL International Measure</i> , 2018, 12, 26-31.	0.1	1
8	Portable, Ambient PM _{2.5} Sensor for Human and/or Animal Exposure Studies. <i>Analytical Letters</i> , 2017, 50, 712-723.	1.8	19
9	Learning Laboratory Chemistry through Electronic Sensors, a Microprocessor, and Student Enabling Software: A Preliminary Demonstration. <i>Journal of Chemical Education</i> , 2017, 94, 1562-1566.	2.3	11
10	Survey data reflecting popular opinions of the causes and mitigation of climate change. <i>Data in Brief</i> , 2017, 14, 412-439.	1.0	10
11	Climate Science Needs Effective Imagens. <i>Journal of Astrophysics & Aerospace Technology</i> , 2017, 08, .	0.1	0
12	Pencil-on-Paper Capacitors for Hand-Drawn RC Circuits and Capacitive Sensing. <i>Journal of Chemistry</i> , 2017, 2017, 1-4.	1.9	6
13	Cavity-Enhanced Spectroscopy in Condensed Phases: Recent Literature and Remaining Challenges. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-10.	1.3	5
14	Parts-per-billion Limits of Detection via Absorbance Spectroscopy: An Ultraviolet (254 nm) Absorbance Detector for Liquid Chromatography using a Light Emitting Diode (LED). <i>Eurasian Journal of Analytical Chemistry</i> , 2017, 12, 901-911.	0.4	2
15	My Dear Buret, Your Time Has Indeed Come!. <i>Journal of Chemical Education</i> , 2016, 93, 988-989.	2.3	4
16	Crowd-sourced air quality studies: A review of the literature & portable sensors. <i>Trends in Environmental Analytical Chemistry</i> , 2016, 11, 23-34.	10.3	83
17	Personal monitoring of ozone exposure: A fully portable device for under \$150 USD cost. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 936-943.	7.8	29
18	A model for absorption of solar radiation by mineral dust within liquid cloud drops. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 133, 121-128.	1.6	3

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19	Designing, Constructing, and Using an Inexpensive Electronic Buret. <i>Journal of Chemical Education</i> , 2015, 92, 106-109.	2.3	22
20	Remote Sensing of Atmospheric Optical Depth Using a Smartphone Sun Photometer. <i>PLoS ONE</i> , 2014, 9, e84119.	2.5	14
21	Effect of particle mixing morphology on aerosol scattering and absorption: A discrete dipole modeling study. <i>GeoResJ</i> , 2014, 3-4, 9-18.	1.4	5
22	The aqueous phase nitration of phenol and benzoic acid studied through flow-gated capillary electrophoresis. <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 1329-1341.	3.3	3
23	Light Scattering and Extinction Measurements Combined with Laser-Induced Incandescence for the Real-Time Determination of Soot Mass Absorption Cross Section. <i>Analytical Chemistry</i> , 2013, 85, 9181-9188.	6.5	28
24	The chemical evolution & physical properties of organic aerosol: A molecular structure based approach. <i>Atmospheric Environment</i> , 2012, 62, 199-207.	4.1	23
25	Optical Properties of Dispersed Aerosols in the Near Ultraviolet (355 nm): Measurement Approach and Initial Data. <i>Analytical Chemistry</i> , 2012, 84, 5611-5617.	6.5	33
26	Aerosol optical properties at Pasadena, CA during CalNex 2010. <i>Atmospheric Environment</i> , 2012, 55, 190-200.	4.1	47
27	Rayleigh scattering measurements of several fluorocarbon gases. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3294.	2.1	5
28	Evaluation of a quantitative structure–property relationship (QSPR) for predicting mid-visible refractive index of secondary organic aerosol (SOA). <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6872.	2.8	57
29	Optical properties of Aeolian dusts common to West Texas. <i>Aeolian Research</i> , 2011, 3, 235-242.	2.7	3
30	Characterization of a novel particle into liquid sampler for analysis of single fluorescent aerosol particles through capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2011, 702, 120-126.	5.4	8
31	Characterization of colored products formed during irradiation of aqueous solutions containing H ₂ O ₂ and phenolic compounds. <i>Atmospheric Environment</i> , 2010, 44, 541-551.	4.1	156
32	Simultaneous Measurement of Optical Scattering and Extinction on Dispersed Aerosol Samples. <i>Analytical Chemistry</i> , 2010, 82, 7885-7896.	6.5	34
33	Light scattering and absorption by wind blown dust: Theory, measurement, and recent data. <i>Aeolian Research</i> , 2010, 2, 5-26.	2.7	94
34	Evaluation of microvolume regenerated cellulose (RC) microdialysis fibers for the sampling and detection of ammonia in air. <i>Talanta</i> , 2010, 81, 1350-1356.	5.5	4
35	A fixed frequency aerosol albedometer. <i>Optics Express</i> , 2008, 16, 2191.	3.4	44
36	Cavity ring-down lossmeter using a pulsed light emitting diode source and photon counting. <i>Measurement Science and Technology</i> , 2007, 18, 147-154.	2.6	19

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37	An Inexpensive Device for Capillary Electrophoresis with Fluorescence Detection. <i>Journal of Chemical Education</i> , 2006, 83, 1677.	2.3	11
38	A Simple Method for Rapidly Obtaining Absorption Spectra with a Spectronic-20D+ Spectrophotometer. <i>Journal of Chemical Education</i> , 2006, 83, 913.	2.3	2
39	Tungsten source integrated cavity output spectroscopy for the determination of ambient atmospheric extinction coefficient. <i>Applied Optics</i> , 2006, 45, 2465.	2.1	26
40	A Simple, Inexpensive Water-Jacketed Cuvette for the Spectronic 20. <i>Journal of Chemical Education</i> , 2004, 81, 1341.	2.3	5
41	Atmospheric Aerosol Measurements by Cavity Ringdown Turbidimetry. <i>Aerosol Science and Technology</i> , 2003, 37, 221-230.	3.1	24
42	Monitoring Atmospheric Particulate Matter through Cavity Ring-Down Spectroscopy. <i>Analytical Chemistry</i> , 2002, 74, 1962-1967.	6.5	52
43	In vivo monitoring of amino acids by direct sampling of brain extracellular fluid at ultralow flow rates and capillary electrophoresis. <i>Journal of Neuroscience Methods</i> , 2002, 114, 39-49.	2.5	110
44	Rapid Determination of Aspartate Enantiomers in Tissue Samples by Microdialysis Coupled On-Line with Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1999, 71, 2379-2384.	6.5	61
45	Fast Analytical-Scale Separations by Capillary Electrophoresis and Liquid Chromatography. <i>Chemical Reviews</i> , 1999, 99, 3081-3132.	47.7	68
46	Optically Gated Capillary Electrophoresis of β -Phthalaldehyde- β -Mercaptoethanol Derivatives of Amino Acids for Chemical Monitoring. <i>Analytical Chemistry</i> , 1998, 70, 4015-4022.	6.5	38
47	Modeling and measurements of angular truncation for an aerosol albedometer. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 7, .	1.9	7