

# W Patrick Arnott

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

4,015  
citations

218677

26  
h-index

189892

50  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the PurpleAir monitor as an aerosol light scattering instrument. Atmospheric Measurement Techniques, 2022, 15, 655-676.	3.1	30
2	The Light Absorption Heating Method for Measurement of Light Absorption by Particles Collected on Filters. Atmosphere, 2022, 13, 824.	2.3	1
3	Emissions from the Open Laboratory Combustion of Cheatgrass ( <i>Bromus Tectorum</i> ). Atmosphere, 2020, 11, 406.	2.3	3
4	Evaluation of gas and particle sensors for detecting spacecraft-relevant fire emissions. Fire Safety Journal, 2020, 113, 102977.	3.1	14
5	Characterization of smoke for spacecraft fire safety. Journal of Aerosol Science, 2019, 136, 36-47.	3.8	14
6	Aggregated particles caused by instrument artifact. Atmospheric Measurement Techniques, 2018, 11, 2225-2237.	3.1	0
7	Development of a Multispectral Albedometer and Deployment on an Unmanned Aircraft for Evaluating Satellite Retrieved Surface Reflectance over Nevada's Black Rock Desert. Sensors, 2018, 18, 3504.	3.8	5
8	Toward understanding atmospheric physics impacting the relationship between columnar aerosol optical depth and near-surface PM mass concentrations in Nevada and California, U.S.A., during 2013. Atmospheric Environment, 2017, 171, 289-300.	4.1	15
9	Evolution of Multispectral Aerosol Absorption Properties in a Biogenically-Influenced Urban Environment during the CARES Campaign. Atmosphere, 2017, 8, 217.	2.3	8
10	Longitudinal Spin Relaxation of Optically Pumped Rubidium Atoms in Solid Parahydrogen. Physical Review Letters, 2016, 117, 175301.	7.8	12
11	Evaluation of MODIS columnar aerosol retrievals using AERONET in semi-arid Nevada and California, U.S.A., during the summer of 2012. Atmospheric Environment, 2016, 144, 345-360.	4.1	27
12	Light absorption by biomass burning source emissions. Atmospheric Environment, 2016, 127, 347-354.	4.1	34
13	Concentrations of mobile source air pollutants in urban microenvironments. Journal of the Air and Waste Management Association, 2014, 64, 743-758.	1.9	19
14	Accuracy of near-surface aerosol extinction determined from columnar aerosol optical depth measurements in Reno, NV, USA. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,355.	3.3	7
15	Spatial variations of particulate matter and air toxics in communities adjacent to the Port of Oakland. Journal of the Air and Waste Management Association, 2013, 63, 1399-1411.	1.9	13
16	Influence of photolysis on multispectral photoacoustic measurement of nitrogen dioxide concentration. Journal of the Air and Waste Management Association, 2013, 63, 1091-1097.	1.9	8
17	Light absorption by secondary organic aerosol from $\alpha$ -pinene: Effects of oxidants, seed aerosol acidity, and relative humidity. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,741.	3.3	54
18	Single scattering albedo of fine mineral dust aerosols controlled by iron concentration. Journal of Geophysical Research, 2012, 117, .	3.3	93

#	ARTICLE	IF	CITATIONS
19	Photoacoustic measurements of black carbon light absorption coefficients in Irbid city, Jordan. Environmental Monitoring and Assessment, 2010, 166, 485-494.	2.7	8
20	Low Fractal Dimension Cluster-Dilute Soot Aggregates from a Premixed Flame. Physical Review Letters, 2009, 102, 235504.	7.8	51
21	Simultaneous Photoacoustic Spectroscopy of Aerosol and Oxygen A-Band Absorption for the Calibration of Aerosol Light Absorption Measurements. Aerosol Science and Technology, 2009, 43, 1084-1090.	3.1	16
22	Aerosol light absorption, black carbon, and elemental carbon at the Fresno Supersite, California. Atmospheric Research, 2009, 93, 874-887.	4.1	123
23	A study of radiative properties of fractal soot aggregates using the superposition T-matrix method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2656-2663.	2.3	218
24	Morphology based particle segregation by electrostatic charge. Journal of Aerosol Science, 2008, 39, 785-792.	3.8	19
25	Light scattering and absorption by fractal-like carbonaceous chain aggregates: comparison of theories and experiment. Applied Optics, 2007, 46, 6990.	2.1	93
26	Emissions from Laboratory Combustion of Wildland Fuels: Emission Factors and Source Profiles. Environmental Science & Technology, 2007, 41, 4317-4325.	10.0	192
27	Photoacoustic insight for aerosol light absorption aloft from meteorological aircraft and comparison with particle soot absorption photometer measurements: DOE Southern Great Plains climate research facility and the coastal stratocumulus imposed perturbation experiments. Journal of Geophysical Research, 2006, 111, .	3.3	50
28	Particle emissions from laboratory combustion of wildland fuels: In situ optical and mass measurements. Geophysical Research Letters, 2006, 33, .	4.0	48
29	Emissions from the laboratory combustion of wildland fuels: Particle morphology and size. Journal of Geophysical Research, 2006, 111, .	3.3	159
30	Evaluation of Multiangle Absorption Photometry for Measuring Aerosol Light Absorption. Aerosol Science and Technology, 2005, 39, 40-51.	3.1	258
31	Cavity Ring-Down and Cavity-Enhanced Detection Techniques for the Measurement of Aerosol Extinction. Aerosol Science and Technology, 2005, 39, 30-39.	3.1	93
32	Towards Aerosol Light-Absorption Measurements with a 7-Wavelength Aethalometer: Evaluation with a Photoacoustic Instrument and 3-Wavelength Nephelometer. Aerosol Science and Technology, 2005, 39, 17-29.	3.1	518
33	Scattering Cross-Section Emission Factors for Visibility and Radiative Transfer Applications: Military Vehicles Traveling on Unpaved Roads. Journal of the Air and Waste Management Association, 2005, 55, 1743-1750.	1.9	15
34	The Reno Aerosol Optics Study: An Evaluation of Aerosol Absorption Measurement Methods. Aerosol Science and Technology, 2005, 39, 1-16.	3.1	215
35	Equivalence of Elemental Carbon by Thermal/Optical Reflectance and Transmittance with Different Temperature Protocols. Environmental Science & Technology, 2004, 38, 4414-4422.	10.0	604
36	Toward an ideal integrating nephelometer. Optics Letters, 2003, 28, 1007.	3.3	40

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37	Evaporationâ€“Condensation Effects on Resonant Photoacoustics of Volatile Aerosols. Journal of Atmospheric and Oceanic Technology, 2003, 20, 685-695.	1.3	45
38	Angular truncation errors in integrating nephelometry. Review of Scientific Instruments, 2003, 74, 3492-3501.	1.3	52
39	Midlatitude Cirrus Clouds Derived from Hurricane Nora: A Case Study with Implications for Ice Crystal Nucleation and Shape. Journals of the Atmospheric Sciences, 2003, 60, 873-891.	1.7	30
40	Nitrogen dioxide and kerosene-flame soot calibration of photoacoustic instruments for measurement of light absorption by aerosols. Review of Scientific Instruments, 2000, 71, 4545.	1.3	139
41	Experimental study of a radial mode thermoacoustic prime mover. Journal of the Acoustical Society of America, 1999, 105, 2652-2662.	1.1	13
42	Photoacoustic spectrometer for measuring light absorption by aerosol: instrument description. Atmospheric Environment, 1999, 33, 2845-2852.	4.1	368
43	Can cirrus clouds produce glories?. Applied Optics, 1998, 37, 1427.	2.1	17
44	Estimation of temperature gradient effects on the normalized surface impedance of soils. Journal of the Acoustical Society of America, 1997, 101, 602-605.	1.1	0
45	Radial wave thermoacoustic engines: Theory and examples for refrigerators and highâ€“gain narrowâ€“bandwidth photoacoustic spectrometers. Journal of the Acoustical Society of America, 1996, 99, 734-745.	1.1	12
46	Thermoacoustic enhancement of photoacoustic spectroscopy: Theory and measurements of the signal	1.3	16
47	Stability analysis of a heliumâ€“filled thermoacoustic engine. Journal of the Acoustical Society of America, 1994, 96, 370-375.	1.1	36
48	Role of small ice crystals in radiative properties of cirrus: A case study, FIRE II, November 22, 1991. Journal of Geophysical Research, 1994, 99, 1371.	3.3	106
49	Measurement and calculation of acoustic propagation constants in arrays of small air-filled rectangular tubes. Journal of the Acoustical Society of America, 1991, 89, 2617-2624.	1.1	36
50	Unfolded optical glory of spheroids: backscattering of laser light from freely rising spheroidal air bubbles in water. Applied Optics, 1991, 30, 3429.	2.1	24
51	Sound propagation in capillaryâ€“tubeâ€“type porous media with small pores in the capillary walls. Journal of the Acoustical Society of America, 1991, 90, 3299-3306.	1.1	16
52	Unfolding axial caustics of glory scattering with harmonic angular perturbations of toroidal wave fronts. Journal of the Acoustical Society of America, 1989, 85, 1427-1440.	1.1	22