

John T Walker

List of Publications by Year in descending order

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71
papers

3,906
citations

101543

36
h-index

133252

59
g-index

74
all docs

74
docs citations

74
times ranked

4287
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a climate-dependent paradigm of ammonia emission and deposition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130166.	4.0	328
2	Increasing importance of deposition of reduced nitrogen in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5874-5879.	7.1	312
3	Exchange processes of volatile organic compounds above a tropical rain forest: Implications for modeling tropospheric chemistry above dense vegetation. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	223
4	Characterization of atmospheric ammonia emissions from swine waste storage and treatment lagoons. <i>Journal of Geophysical Research</i> , 2000, 105, 11535-11545.	3.3	199
5	Evaluation of a regional air-quality model with bidirectional NH ₃ exchange coupled to an agroecosystem model. <i>Biogeosciences</i> , 2013, 10, 1635-1645.	3.3	147
6	Ambient ammonia and ammonium aerosol across a region of variable ammonia emission density. <i>Atmospheric Environment</i> , 2004, 38, 1235-1246.	4.1	143
7	TES ammonia retrieval strategy and global observations of the spatial and seasonal variability of ammonia. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10743-10763.	4.9	129
8	Atmospheric concentrations of ammonia and ammonium at an agricultural site in the southeast United States. <i>Atmospheric Environment</i> , 2002, 36, 1661-1674.	4.1	124
9	Atmospheric transport and wet deposition of ammonium in North Carolina. <i>Atmospheric Environment</i> , 2000, 34, 3407-3418.	4.1	123
10	An assessment of the ability of three-dimensional air quality models with current thermodynamic equilibrium models to predict aerosol NO ₃ ⁻ . <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	113
11	An assessment of the performance of the Monitor for Aerosols and Gases in ambient air (MARGA): a semi-continuous method for soluble compounds. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5639-5658.	4.9	105
12	Measurement and analysis of atmospheric ammonia emissions from anaerobic lagoons. <i>Atmospheric Environment</i> , 2001, 35, 1949-1958.	4.1	96
13	Passive ammonia monitoring in the United States: Comparing three different sampling devices. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3156.	2.1	95
14	Measurement of bi-directional ammonia fluxes over soybean using the modified Bowen-ratio technique. <i>Agricultural and Forest Meteorology</i> , 2006, 138, 54-68.	4.8	94
15	Agricultural ammonia emissions and ammonium concentrations associated with aerosols and precipitation in the southeast United States. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	84
16	Development and evaluation of an ammonia bidirectional flux parameterization for air quality models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3794-3806.	3.3	73
17	Estimation of NH ₃ bi-directional flux from managed agricultural soils. <i>Atmospheric Environment</i> , 2010, 44, 2107-2115.	4.1	70
18	Estimation of In-Canopy Ammonia Sources and Sinks in a Fertilized <i>Zea mays</i> Field. <i>Environmental Science & Technology</i> , 2010, 44, 1683-1689.	10.0	70

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19	N ₂ O Emissions from Streams in the Neuse River Watershed, North Carolina. <i>Environmental Science & Technology</i> , 2005, 39, 6999-7004.	10.0	61
20	Inorganic PM _{2.5} at a U.S. agricultural site. <i>Environmental Pollution</i> , 2006, 139, 258-271.	7.5	55
21	Organic nitrogen in PM _{2.5} aerosol at a forest site in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2145-2157.	4.9	55
22	Quantifying spatial and seasonal variability in atmospheric ammonia with in situ and space-based observations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	54
23	Is biochar-manure co-compost a better solution for soil health improvement and N ₂ O emissions mitigation?. <i>Soil Biology and Biochemistry</i> , 2017, 113, 14-25.	8.8	54
24	Satellite observations of tropospheric ammonia and carbon monoxide: Global distributions, regional correlations and comparisons to model simulations. <i>Atmospheric Environment</i> , 2015, 106, 262-277.	4.1	48
25	Warmer temperatures reduce net carbon uptake, but do not affect water use, in a mature southern Appalachian forest. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 269-282.	4.8	48
26	Trends in Ammonium Concentration in Precipitation and Atmospheric Ammonia Emissions at a Coastal Plain Site in North Carolina, U.S.A.. <i>Environmental Science & Technology</i> , 2000, 34, 3527-3534.	10.0	46
27	Inferential model estimates of ammonia dry deposition in the vicinity of a swine production facility. <i>Atmospheric Environment</i> , 2008, 42, 3407-3418.	4.1	45
28	Determination of saturation pressure and enthalpy of vaporization of semi-volatile aerosols: The integrated volume method. <i>Journal of Aerosol Science</i> , 2008, 39, 876-887.	3.8	43
29	Evaluation and Intercomparison of Five North American Dry Deposition Algorithms at a Mixed Forest Site. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1571-1586.	3.8	43
30	Fate of ammonia emissions at the local to regional scale as simulated by the Community Multiscale Air Quality model. <i>Atmospheric Pollution Research</i> , 2010, 1, 207-214.	3.8	42
31	An intercomparison of models used to simulate the short-range atmospheric dispersion of agricultural ammonia emissions. <i>Environmental Modelling and Software</i> , 2012, 37, 90-102.	4.5	42
32	Inferring the contribution of advection to total ecosystem scalar fluxes over a tall forest in complex terrain. <i>Agricultural and Forest Meteorology</i> , 2014, 185, 1-13.	4.8	41
33	Nitrogen trace gas emissions from a riparian ecosystem in southern Appalachia. <i>Chemosphere</i> , 2002, 49, 1389-1398.	8.2	40
34	A new model of bi-directional ammonia exchange between the atmosphere and biosphere: Ammonia stomatal compensation point. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 263-280.	4.8	39
35	A photosynthesis-based canopy stomatal conductance model for meteorology and air quality modeling with WRF/CMAQ PX LSM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1930-1952.	3.3	39
36	Speciation and trends of organic nitrogen in southeastern U.S. fine particulate matter (PM _{2.5}). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1996-2006.	3.3	38

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37	Effects of an Experimental Water-level Drawdown on Methane Emissions from a Eutrophic Reservoir. <i>Ecosystems</i> , 2018, 21, 657-674.	3.4	38
38	Processes of ammonia air-surface exchange in a fertilized <i>Zea mays</i> canopy. <i>Biogeosciences</i> , 2013, 10, 981-998.	3.3	37
39	Dry nitrogen deposition estimates over a forest experiencing free air CO ₂ enrichment. <i>Global Change Biology</i> , 2008, 14, 768-781.	9.5	36
40	Spring and summer contrast in new particle formation over nine forest areas in North America. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13993-14003.	4.9	36
41	Toward the improvement of total nitrogen deposition budgets in the United States. <i>Science of the Total Environment</i> , 2019, 691, 1328-1352.	8.0	29
42	Sensitivity of continental United States atmospheric budgets of oxidized and reduced nitrogen to dry deposition parametrizations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130124.	4.0	27
43	Chromatography related performance of the Monitor for Aerosols and Gases in ambient air (MARGA): laboratory and field-based evaluation. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3893-3908.	3.1	27
44	Nitrous Oxide Emissions from the Gulf of Mexico Hypoxic Zone. <i>Environmental Science & Technology</i> , 2010, 44, 1617-1623.	10.0	26
45	Aspects of uncertainty in total reactive nitrogen deposition estimates for North American critical load applications. <i>Science of the Total Environment</i> , 2019, 690, 1005-1018.	8.0	24
46	Technical Note: Fast two-dimensional GC-MS with thermal extraction for anhydro-sugars in fine aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4331-4341.	4.9	23
47	Eddy covariance measurements with a new fast-response, enclosed-path analyzer: Spectral characteristics and cross-system comparisons. <i>Agricultural and Forest Meteorology</i> , 2013, 181, 17-32.	4.8	23
48	Stability of organic nitrogen in NADP wet deposition samples. <i>Atmospheric Environment</i> , 2012, 60, 573-582.	4.1	18
49	Seasonal effects in land use regression models for nitrogen dioxide, coarse particulate matter, and gaseous ammonia in Cleveland, Ohio. <i>Atmospheric Pollution Research</i> , 2012, 3, 352-361.	3.8	17
50	Observation and Analysis of Particle Nucleation at a Forest Site in Southeastern US. <i>Atmosphere</i> , 2013, 4, 72-93.	2.3	16
51	Characterization of organic nitrogen in aerosols at a forest site in the southern Appalachian Mountains. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6829-6846.	4.9	16
52	Evaluation of the effectiveness of riparian zone restoration in the southern Appalachians by assessing soil microbial populations. <i>Applied Soil Ecology</i> , 2004, 26, 63-68.	4.3	15
53	Application of an online ion-chromatography-based instrument for gradient flux measurements of speciated nitrogen and sulfur. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2581-2592.	3.1	15
54	The extent and pathways of nitrogen loss in turfgrass systems: Age impacts. <i>Science of the Total Environment</i> , 2018, 637-638, 746-757.	8.0	14

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55	Temporal trends in methane emissions from a small eutrophic reservoir: the key role of a spring burst. <i>Biogeosciences</i> , 2021, 18, 5291-5311.	3.3	14
56	A review of measurements of air-surface exchange of reactive nitrogen in natural ecosystems across North America. <i>Science of the Total Environment</i> , 2020, 698, 133975.	8.0	13
57	What Goes Up Must Come Down: Integrating Air and Water Quality Monitoring for Nutrients. <i>Environmental Science & Technology</i> , 2018, 52, 11441-11448.	10.0	12
58	Ammonia Emissions from the EPA's Light Duty Test Vehicle. , 0, , .		11
59	Recovery of Nitrogen Pools and Processes in Degraded Riparian Zones in the Southern Appalachians. <i>Journal of Environmental Quality</i> , 2009, 38, 1391-1399.	2.0	11
60	Development and validation of inexpensive, automated, dynamic flux chambers. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 267-280.	3.1	11
61	Probing the biological sources of soil N ₂ O emissions by quantum cascade laser-based ¹⁵ N isotopocule analysis. <i>Soil Biology and Biochemistry</i> , 2016, 100, 175-181.	8.8	11
62	Modeling of ammonia dry deposition to a pocosin landscape downwind of a large poultry facility. <i>Agriculture, Ecosystems and Environment</i> , 2014, 185, 161-175.	5.3	9
63	Particulate Matter in the Vicinity of an Egg Production Facility: Concentrations, Statistical Distributions, and Upwind and Downwind Comparison. <i>Transactions of the ASABE</i> , 2012, 55, 1965-1973.	1.1	5
64	Extension of a gaseous dry deposition algorithm to oxidized volatile organic compounds and hydrogen cyanide for application in chemistry transport models. <i>Geoscientific Model Development</i> , 2021, 14, 5093-5105.	3.6	5
65	Comparing nitrous oxide losses from three residential landscapes under different management schemes following natural rainfall events. <i>Urban Ecosystems</i> , 2015, 18, 1227-1243.	2.4	1
66	Review of methods for assessing deposition of reactive nitrogen pollutants across complex terrain with focus on the UK. <i>Environmental Science Atmospheres</i> , 0, , .	2.4	1
67	Formation and growth of atmospheric particles at a forest site in the southeast US. , 2013, , .		0
68	Reply to Sun et al.: Deposition of organic nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4435-E4435.	7.1	0
69	Reply to Liu et al.: On the importance of US deposition of nitrogen dioxide, coarse particle nitrate, and organic nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3592-E3593.	7.1	0
70	Assessment Methods for Ammonia Hot-Spots. , 2009, , 391-407.		0
71	Evolution of Monitoring and Modeling of Reactive Nitrogen Deposition in the United States. <i>Em: Air and Waste Management Association's Magazine for Environmental Managers</i> , 2019, July, 1-4.	0.2	0