Amy Townsend-Small

List of Publications by Year
in descending order

41 papers	2,721 citations	186209 28 h-index	276775 41 g-index
43 all docs	43 docs citations	43 times ranked	3949 citing authors

#	Article	IF	Citations
1	Assessment of methane emissions from the U.S. oil and gas supply chain. Science, 2018, 361, 186-188.	6.0	519
2	Reconciling divergent estimates of oil and gas methane emissions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15597-15602.	3.3	209
3	Methane Mitigation: Methods to Reduce Emissions, on the Path to the Paris Agreement. Reviews of Geophysics, 2020, 58, e2019RG000675.	9.0	163
4	Direct Measurements Show Decreasing Methane Emissions from Natural Gas Local Distribution Systems in the United States. Environmental Science & Technology, 2015, 49, 5161-5169.	4.6	152
5	Timing and climatic drivers for glaciation across monsoon-influenced regions of the Himalayanâ€“Tibetan orogen. Quaternary Science Reviews, 2014, 88, 159-182.	1.4	135
6	Emissions of coalbed and natural gas methane from abandoned oil and gas wells in the United States. Geophysical Research Letters, 2016, 43, 2283-2290.	1.5	100
7	Nitrogen losses in anoxic marine sediments driven by Thioplocaâ€“anammox bacterial consortia. Nature, 2013, 500, 194-198.	13.7	96
8	Isotopic measurements of atmospheric methane in Los Angeles, California, USA: Influence of â€œfugitiveâ€• fossil fuel emissions. Journal of Geophysical Research, 2012, 117, .	3.3	95
9	River export of nutrients and organic matter from the North Slope of Alaska to the Beaufort Sea. Water Resources Research, 2014, 50, 1823-1839.	1.7	89
10	Carbon sequestration and greenhouse gas emissions in urban turf. Geophysical Research Letters, 2010, 37, .	1.5	83
11	High Methane Emissions from a Midlatitude Reservoir Draining an Agricultural Watershed. Environmental Science & Technology, 2014, 48, 11100-11108.	4.6	76
12	Greenhouse gas emissions from diverse Arctic Alaskan lakes are dominated by young carbon. Nature Climate Change, 2018, 8, 166-171.	8.1	72
13	Isotopic and elemental indicators of nutrient sources and status of coastal habitats in the Caribbean Sea, Yucatan Peninsula, Mexico. Estuarine, Coastal and Shelf Science, 2007, 74, 449-457.	0.9	70
14	Denitrification in anoxic sediments supported by biological nitrate transport. Geochimica Et Cosmochimica Acta, 2011, 75, 7180-7199.	1.6	63
15	Suspended sediments and organic matter in mountain headwaters of the Amazon River: Results from a 1-year time series study in the central Peruvian Andes. Geochimica Et Cosmochimica Acta, 2008, 72, 732-740.	1.6	61
16	Seasonal and hydrologic drivers of dissolved organic matter and nutrients in the upper Kuparuk River, Alaskan Arctic. Biogeochemistry, 2011, 103, 109-124.	1.7	59
17	Denitrification alternates between a source and sink of nitrous oxide in the hypolimnion of a thermally stratified reservoir. Limnology and Oceanography, 2014, 59, 495-506.	1.6	57
18	Integrating Source Apportionment Tracers into a Bottom-up Inventory of Methane Emissions in the Barnett Shale Hydraulic Fracturing Region. Environmental Science & Technology, 2015, 49, 8175-8182.	4.6	55

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19	Contributions of carbon and nitrogen from the Andes Mountains to the Amazon River: Evidence from an elevational gradient of soils, plants, and river material. Limnology and Oceanography, 2005, 50, 672-685.	1.6	41
20	Nitrous oxide emissions and isotopic composition in urban and agricultural systems in southern California. Journal of Geophysical Research, 2011, 116, .	3.3	41
21	Sensor transition failure in the high flow sampler: Implications for methane emission inventories of natural gas infrastructure. Journal of the Air and Waste Management Association, 2015, 65, 856-862.	0.9	41
22	Estimating Emissions of Toxic Hydrocarbons from Natural Gas Production Sites in the Barnett Shale Region of Northern Texas. Environmental Science & Technology, 2016, 50, 10756-10764.	4.6	41
23	Climatic and topographic controls on soil organic matter storage and dynamics in the Indian Himalaya: Potential carbon cycleâ€“climate change feedbacks. Catena, 2014, 119, 125-135.	2.2	40
24	Nitrogen cycling within suboxic and anoxic sediments from the continental margin of Western North America. Marine Chemistry, 2012, 128-129, 13-25.	0.9	37
25	Increasing summer river discharge in southern California, USA, linked to urbanization. Geophysical Research Letters, 2013, 40, 4643-4647.	1.5	36
26	Nitrous Oxide Emissions from Wastewater Treatment and Water Reclamation Plants in Southern California. Journal of Environmental Quality, 2011, 40, 1542-1550.	1.0	34
27	Using stable isotopes of hydrogen to quantify biogenic and thermogenic atmospheric methane sources: A case study from the Colorado Front Range. Geophysical Research Letters, 2016, 43, 11,462.	1.5	34
28	Quantifying emissions of methane derived from anaerobic organic matter respiration and natural gas extraction in Lake Erie. Limnology and Oceanography, 2016, 61, S356.	1.6	32
29	Impact of direct greenhouse gas emissions on the carbon footprint of water reclamation processes employing nitrificationâ€“denitrification. Science of the Total Environment, 2015, 505, 1166-1173.	3.9	24
30	Direct measurements from shut-in and other abandoned wells in the Permian Basin of Texas indicate some wells are a major source of methane emissions and produced water. Environmental Research Letters, 2021, 16, 054081.	2.2	23
31	Monitoring concentration and isotopic composition of methane in groundwater in the Utica Shale hydraulic fracturing region of Ohio. Environmental Monitoring and Assessment, 2018, 190, 322.	1.3	19
32	Spatial and Temporal Variation in Methane Concentrations, Fluxes, and Sources in Lakes in Arctic Alaska. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2966-2981.	1.3	18
33	Measurements show that marginal wells are a disproportionate source of methane relative to production. Journal of the Air and Waste Management Association, 2020, 70, 1030-1042.	0.9	18
34	Nitrous oxide cycling in the water column and sediments of the oxygen minimum zone, eastern subtropical North Pacific, Southern California, and Northern Mexico (23Â°N-34Â°N). Journal of Geophysical Research: Oceans, 2014, 119, 3158-3170.	1.0	16
35	Street-level emissions of methane and nitrous oxide from the wastewater collection system in Cincinnati, Ohio. Environmental Pollution, 2018, 236, 247-256.	3.7	16
36	Effect of Lonicera maackii on Soil Carbon and Nitrogen in Southwestern Ohio Forests. Invasive Plant Science and Management, 2015, 8, 375-384.	0.5	15

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37	Methane and nitrous oxide measured throughout Lake Erie over all seasons indicate highest emissions from the eutrophic Western Basin. Journal of Great Lakes Research, 2020, 46, 1604-1614.	0.8	14
38	Can Deep Groundwater Influx be Detected from the Geochemistry of Thermokarst Lakes in Arctic Alaska?. Permafrost and Periglacial Processes, 2017, 28, 552-557.	1.5	8
39	Street-level methane emissions of Bucharest, Romania and the dominance of urban wastewater.. Atmospheric Environment: X, 2022, 13, 100153.	0.8	8
40	Impact of Landâ€Use History and Forest Trees on Soil Organic Carbon and Nitrogen Stocks. Soil Science Society of America Journal, 2016, 80, 1089-1097.	1.2	6
41	Shallow Groundwater Conveyance of Geologically Derived Contaminants to Urban Creeks in Southern California. Environmental Science & Technology, 2015, 49, 9610-9619.	4.6	5