R Kelman Wieder

List of Publications by Citations

52 papers	2,188 citations	29 h-index	46 g-index
53 ext. papers	2,347 ext. citations	3.8 avg, IF	4.66 L-index

#	Paper	IF	Citations
52	Trade-offs in resource allocation among moss species control decomposition in boreal peatlands. *Journal of Ecology*, **2008**, 96, 1297-1305	6	150
51	Dating recent peat deposits. *Wetlands*, **2004**, 24, 324-356	1.7	129
50	Production of methane and carbon dioxide in peatland ecosystems across North America: Effects of temperature, aeration, and organic chemistry of peat. *Geomicrobiology Journal*, **1997**, 14, 299-316	2.5	118
49	Postfire carbon balance in boreal bogs of Alberta, Canada. *Global Change Biology*, **2009**, 15, 63-81	11.4	111
48	Control of carbon mineralization to CH4 and CO2 in anaerobic,Sphagnum-derived peat from Big Run Bog, West Virginia. *Biogeochemistry*, **1987**, 4, 141-157	3.8	110
47	N2-fixation by methanotrophs sustains carbon and nitrogen accumulation in pristine peatlands. *Biogeochemistry*, **2014**, 121, 317-328	3.8	103
46	Mobility of Pb inSphagnum-derived peat. *Biogeochemistry*, **1999**, 45, 35-52	3.8	90
45	SOURCES OF CO2 EMISSION FROM A NORTHERN PEATLAND: ROOT RESPIRATION, EXUDATION, AND DECOMPOSITION. *Ecology*, **2005**, 86, 1825-1834	4.6	89
44	Organic matter accumulation, peat chemistry, and permafrost melting in peatlands of boreal Alberta. *Ecoscience*, **2000**, 7, 115-122	1.1	85
43	200 Years of Pb Deposition throughout the Czech Republic: Patterns and Sources. *Environmental Science & Technology*, **2000**, 34, 12-21	10.3	80
42	Atmospheric sulfur deposition alters pathways of gaseous carbon production in peatlands. *Global Biogeochemical Cycles*, **2003**, 17, n/a-n/a	5.9	79
41	RESPONSE OF ANAEROBIC CARBON MINERALIZATION RATES TO SULFATE AMENDMENTS IN A BOREAL PEATLAND **2003**, 13, 720-734		72
40	Seasonal drought and dry-season irrigation influence leaf-litter nutrients and soil enzymes in a moist, lowland forest in Panama. *Austral Ecology*, **2004**, 29, 177-188	1.5	65
39	Alkalinity generation by Fe(III) reduction versus sulfate reduction in wetlands constructed for acid mine drainage treatment. *Water, Air, and Soil Pollution*, **1993**, 69, 425-441	2.6	57
38	Fe, Al, Mn, and S chemistry of Sphagnum peat in four peatlands with different metal and sulfur input. *Water, Air, and Soil Pollution*, **1986**, 29, 309-320	2.6	54
37	Decomposition and Peat Accumulation in Rich Fens of Boreal Alberta, Canada. *Ecosystems*, **2009**, 12, 360-373	3.9	53
36	Peatlands and global climate change: Insights from comparative studies of sites situated along a latitudinal gradient. *Wetlands*, **1994**, 14, 229-238	1.7	46

35	Sulfur during early diagenesis in Sphagnum peat: Insights from 34S ratio profiles in 21Pb-dated peat cores. *Limnology and Oceanography*, **1994**, 39, 1172-1185	4.8	46
34	Rates of peat accumulation over the past 200 years in fiveSphagnum-dominated peatlands in the United States. *Journal of Paleolimnology*, **1994**, 12, 35-47	2.1	45
33	Linking microtopography with post-fire succession in bogs. *Journal of Vegetation Science*, **2005**, 16, 453-460	3.0	42
32	Ion input/output budgets for five wetlands constructed for acid coal mine drainage treatment. *Water, Air, and Soil Pollution*, **1993**, 71, 231-270	2.6	41
31	Historical rates of atmospheric Pb deposition using210Pb dated peat cores: Corroboration, computation, and interpretation. *Water, Air, and Soil Pollution*, **1995**, 79, 89-106	2.6	40
30	Effects of altered atmospheric nutrient deposition from Alberta oil sands development on Sphagnum fuscum growth and C, N and S accumulation in peat. *Biogeochemistry*, **2016**, 129, 1-19	3.8	39
29	Processes of Iron and Manganese Retention in Laboratory Peat Microcosms Subjected to Acid Mine Drainage. *Journal of Environmental Quality*, **1990**, 19, 312-320	3.4	35
28	Inorganic and organic sulfur profiles in nine Sphagnum peat bogs in the United States and Czechoslovakia. *Water, Air, and Soil Pollution*, **1992**, 65, 353-369	2.6	33
27	Differential Effects of High Atmospheric N and S Deposition on Bog Plant/Lichen Tissue and Porewater Chemistry across the Athabasca Oil Sands Region. *Environmental Science & Technology*, **2016**, 50, 12630-12640	10.3	31
26	Quantitative determination of organic fractions in highly organic, Sphagnum peat soils. *Communications in Soil Science and Plant Analysis*, **1998**, 29, 847-857	1.5	31
25	Peatlands and the Boreal Forest **2006**, 1-8		31
24	Organic Matter Accumulation and Community Change at the Peatland–Upland Interface: Inferences from 14C and 210Pb Dated Profiles. *Ecosystems*, **2009**, 12, 636-653	3.9	30
23	Mobility of Pb in Sphagnum-derived peat. *Biogeochemistry*, **1999**, 45, 35-52	3.8	25
22	Primary Production in Boreal Peatlands **2006**, 145-164		24
21	Diel Changes in Iron(III)/Iron(II) in Effluent from Constructed Acid Drainage Treatment Wetlands. *Journal of Environmental Quality*, **1994**, 23, 730-738	3.4	24
20	Experimental nitrogen addition alters structure and function of a boreal bog: critical load and thresholds revealed. *Ecological Monographs*, **2019**, 89, e01371	9	23
19	Boreal bog Sphagnum refixes soil-produced and respired 14CO2. *Ecoscience*, **1999**, 6, 587-591	1.1	23
18	The influence of climate change on recent peat accumulation patterns of Distichia muscoides cushion bogs in the high-elevation tropical Andes of Colombia. *Journal of Geophysical Research G: Biogeosciences*, **2013**, 118, 1627-1635	3.7	22

17	Soil nutrient dynamics in response to irrigation of a Panamanian tropical moist forest. *Biogeochemistry*, **1993**, 19, 1	3.8	22
16	Continental fens in western Canada as effective carbon sinks during the Holocene. *Holocene*, **2014**, 24, 1090-1104	2.6	14
15	Linkages between spatio-temporal patterns of environmental factors and distribution of plant assemblages across a boreal peatland complex. *Boreas*, **2016**, 45, 207-219	2.4	14
14	The structure and function of bryophyte-dominated peatlands357-392		12
13	Experimental nitrogen addition alters structure and function of a boreal poor fen: Implications for critical loads. *Science of the Total Environment*, **2020**, 733, 138619	10.2	8
12	Sample Drying, Total Sulfur and Stable Sulfur Isotopic Ratio Determination in Freshwater Wetland Peat. *Soil Science Society of America Journal*, **1996**, 60, 949-952	2.5	8
11	Net nitrogen mineralization in Alberta bog peat is insensitive to experimentally increased nitrogen deposition and time since wildfire. *Biogeochemistry*, **2018**, 138, 155-170	3.8	7
10	PAST, PRESENT, AND FUTURE PEATLAND CARBON BALANCE: AN EMPIRICAL MODEL BASED ON 210Pb-DATED CORES **2001**, 11, 327-342		7
9	Bog plant/lichen tissue nitrogen and sulfur concentrations as indicators of emissions from oil sands development in Alberta, Canada. *Environmental Monitoring and Assessment*, **2021**, 193, 208	3.1	4
8	Nitrogen Retention by Sphagnum fuscum in Laboratory Mesocosms: Responses to Experimentally Added NH4+-N and NO3−N. *Wetlands*, **2019**, 39, 79-85	1.7	3
7	Cosmogenic 10Be as a potential dating tool in peat. *Biogeochemistry*, **2010**, 101, 177-182	3.8	3
6	Linking microtopography with post-fire succession in bogs **2005**, 16, 453		3
5	A protocol for monitoring plant responses to changing nitrogen deposition regimes in Alberta bogs. *Environmental Monitoring and Assessment*, **2020**, 192, 743	3.1	3
4	Peat as an Archive of Atmospheric, Climatic and Environmental Conditions96-112		2
3	Tetrazolium reduction in acidicSphagnum-derived peat. *Wetlands*, **1998**, 18, 79-83	1.7	2
2	Can plant or lichen natural abundance 15N ratios indicate the influence of oil sands N emissions on bogs?. *Journal of Hydrology: Regional Studies*, **2022**, 40, 101030	3.6	0
1	Is bog water chemistry affected by increasing N and S deposition from oil sands development in Northern Alberta, Canada?. *Environmental Monitoring and Assessment*, **2021**, 193, 766	3.1	0