Kate J Lajtha

List of Publications by Year
in descending order

130	10,776	36203	35952
papers	citations	51 h-index	97 g-index

142	142	142	9938
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twenty years of litter manipulation reveals that above-ground litter quantity and quality controls soil organic matter molecular composition. Biogeochemistry, 2022, 159, 393-411.	1.7	11
2	How will a drier climate change carbon sequestration in soils of the deciduous forests of Central Europe?. Biogeochemistry, 2021, 152, 13-32.	1.7	21
3	Sources of soil carbon loss during soil density fractionation: Laboratory loss or seasonally variable soluble pools?. Geoderma, 2021, 382, 114776.	2.3	4
4	Soil organic carbon is not just for soil scientists: measurement recommendations for diverse practitioners. Ecological Applications, 2021, 31, e02290.	1.8	18
5	Competing Processes Drive the Resistance of Soil Carbon to Alterations in Organic Inputs. Frontiers in Environmental Science, 2021, 9, .	1.5	11
6	SoDaH: the SOils DAta Harmonization database, an open-source synthesis of soil data from research networks, version 1.0. Earth System Science Data, 2021, 13, 1843-1854.	3.7	17
7	Nutrient limitation may induce microbial mining for resources from persistent soil organic matter. Ecology, 2021, 102, e03328.	1.5	56
8	Mineral stabilization of soil carbon is suppressed by live roots, outweighing influences from litter quality or quantity. Biogeochemistry, 2021, 154, 433-449.	1.7	20
9	Celebrating Biogeochemistry: over 35 years of publication. Biogeochemistry, 2021, 154, 139-140.	1.7	0
10	Divergent controls of soil organic carbon between observations and process-based models. Biogeochemistry, 2021, 156, 5-17.	1.7	19
11	Nutrient retention and loss during ecosystem succession: revisiting a classic model. Ecology, 2020, 101, e02896.	1.5	21
12	Chlorination of soil-derived dissolved organic matter: Long term nitrogen deposition does not increase terrestrial precursors of toxic disinfection byproducts. Water Research, 2020, 185, 116271.	5.3	14
13	Biogeochemistry statement on #ShutDownSTEM and Black Lives Matter. Biogeochemistry, 2020, 149, 237-237.	1.7	2
14	Dissolved organic carbon production and flux under long-term litter manipulations in a Pacific Northwest old-growth forest. Biogeochemistry, 2020, 149, 75-86.	1.7	11
15	What do we know about soil carbon destabilization?. Environmental Research Letters, 2019, 14, 083004.	2.2	106
16	The landscape of soil carbon data: Emerging questions, synergies and databases. Progress in Physical Geography, 2019, 43, 707-719.	1.4	27
17	Publishing scientific research in open access, hybrid, or paywall journals: what model serves all authors and all readers?. Biogeochemistry, 2019, 144, 229-231.	1.7	3
18	Longâ€term Nitrogen Addition Decreases Organic Matter Decomposition and Increases Forest Soil Carbon. Soil Science Society of America Journal, 2019, 83, S82.	1.2	26

#	Article	IF	Citations
19	Long-term nitrogen addition suppresses microbial degradation, enhances soil carbon storage, and alters the molecular composition of soil organic matter. Biogeochemistry, 2019, 142, 299-313.	1.7	70
20	The Path From Litter to Soil: Insights Into Soil C Cycling From Longâ€Term Input Manipulation and Highâ€Resolution Mass Spectrometry. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1486-1497.	1.3	10
21	Soil carbon cycling proxies: Understanding their critical role in predicting climate change feedbacks. Global Change Biology, 2018, 24, 895-905.	4.2	61
22	Forest harvest legacies control dissolved organic carbon export in small watersheds, western Oregon. Biogeochemistry, 2018, 140, 299-315.	1.7	24
23	Molecular-level changes in soil organic matter composition after 10Âyears of litter, root and nitrogen manipulation in a temperate forest. Biogeochemistry, 2018, 141, 183-197.	1.7	19
24	Spatial and temporal changes in ecosystem carbon pools following juniper encroachment and removal. Biogeochemistry, 2018, 140, 373-388.	1.7	13
25	Fluorescent DOC characteristics are related to streamflow and pasture cover in streams of a mixed landscape. Biogeochemistry, 2018, 140, 317-340.	1.7	12
26	The detrital input and removal treatment (DIRT) network: Insights into soil carbon stabilization. Science of the Total Environment, 2018, 640-641, 1112-1120.	3.9	97
27	Longâ€term effects of climate change on carbon storage and tree species composition in a dry deciduous forest. Global Change Biology, 2017, 23, 3154-3168.	4.2	46
28	Application of a Stir Bar Sorptive Extraction sample preparation method with HPLC for soil fungal biomass determination in soils from a detrital manipulation study. Journal of Microbiological Methods, 2017, 136, 1-5.	0.7	20
29	The carbon quality-temperature hypothesis does not consistently predict temperature sensitivity of soil organic matter mineralization in soils from two manipulative ecosystem experiments. Biogeochemistry, 2017, 136, 249-260.	1.7	20
30	The Ecology of Soil Carbon: Pools, Vulnerabilities, and Biotic and Abiotic Controls. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 419-445.	3.8	584
31	Long-term litter manipulation alters soil organic matter turnover in a temperate deciduous forest. Science of the Total Environment, 2017, 607-608, 865-875.	3.9	42
32	Depth trends of soil organic matter C:N and 15N natural abundance controlled by association with minerals. Biogeochemistry, 2017, 136, 237-248.	1.7	54
33	The Detrital Input and Removal Treatment (DIRT) Network. , 2017, , .		4
34	Asymmetric and symmetric warming increases turnover of litter and unprotected soil C in grassland mesocosms. Biogeochemistry, 2016, 128, 217-231.	1.7	10
35	Homogenization of detrital leachate in an old-growth coniferous forest, OR: DOC fluorescence signatures in soils undergoing long-term litter manipulations. Plant and Soil, 2016, 408, 133-148.	1.8	9
36	Hydrologic and forest management controls on dissolved organic matter characteristics in headwater streams of old-growth forests in the Oregon Cascades. Forest Ecology and Management, 2016, 380, 11-22.	1.4	18

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37	Long-term doubling of litter inputs accelerates soil organic matter degradation and reduces soil carbon stocks. Biogeochemistry, 2016, 127, 1-14.	1.7	71
38	Validation of an agroecosystem process model (AGRO-BGC) on annual and perennial bioenergy feedstocks. Ecological Modelling, 2016, 321, 23-34.	1.2	3
39	The effects of litter production and litter depth on soil microclimate in a central european deciduous forest. Plant and Soil, 2016, 398, 291-300.	1.8	49
40	Chronic nitrogen fertilization and carbon sequestration in grassland soils: evidence of a microbial enzyme link. Biogeochemistry, 2015, 126, 301-313.	1.7	61
41	Surficial gains and subsoil losses of soil carbon and nitrogen during secondary forest development. Global Change Biology, 2015, 21, 986-996.	4.2	102
42	Soil extracellular enzyme activities are sensitive indicators of detrital inputs and carbon availability. Applied Soil Ecology, 2015, 92, 18-23.	2.1	123
43	Effects of Detrital Inputs and Roots on Carbon Saturation Deficit of a Temperate Forest Soil. Soil Science Society of America Journal, 2014, 78, S76.	1.2	21
44	Litter and Root Manipulations Provide Insights into Soil Organic Matter Dynamics and Stability. Soil Science Society of America Journal, 2014, 78, S261.	1.2	103
45	Litter Input Controls on Soil Carbon in a Temperate Deciduous Forest. Soil Science Society of America Journal, 2014, 78, S66.	1.2	78
46	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. Biogeochemistry, 2014, 121, 305-316.	1.7	302
47	Changes to particulate versus mineral-associated soil carbon after 50 years of litter manipulation in forest and prairie experimental ecosystems. Biogeochemistry, 2014, 119, 341-360.	1.7	99
48	Alterations in forest detritus inputs influence soil carbon concentration and soil respiration in a Central-European deciduous forest. Soil Biology and Biochemistry, 2014, 74, 106-114.	4.2	79
49	Soil enzyme activity in response to long-term organic matter manipulation. Soil Biology and Biochemistry, 2014, 70, 237-243.	4.2	206
50	An optimized HPLC method for soil fungal biomass determination and its application to a detritus manipulation study. Journal of Microbiological Methods, 2014, 103, 124-130.	0.7	32
51	Soil Microbe Active Community Composition and Capability of Responding to Litter Addition after 12 Years of No Inputs. Applied and Environmental Microbiology, 2013, 79, 1385-1392.	1.4	39
52	Scaling litter fall in complex terrain: A study from the western Cascades Range, Oregon. Forest Ecology and Management, 2013, 306, 118-127.	1.4	4
53	Lignin properties in topsoils of a beech/oak forest after 8Âyears of manipulated litter fall: relevance of altered input and oxidation of lignin. Plant and Soil, 2013, 367, 579-589.	1.8	8
54	Density fractionation and 13C reveal changes in soil carbon following woody encroachment in a desert ecosystem. Biogeochemistry, 2013, 112, 409-422.	1.7	44

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55	Trends in cation, nitrogen, sulfate and hydrogen ion concentrations in precipitation in the United States and Europe from 1978 to 2010: a new look at an old problem. Biogeochemistry, 2013, 116, 303-334.	1.7	65
56	Linking aboveground net primary productivity to soil carbon and dissolved organic carbon in complex terrain. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1225-1236.	1.3	21
57	Transfer of litter-derived N to soil mineralâ€“organic associations: Evidence from decadal 15N tracer experiments. Organic Geochemistry, 2012, 42, 1489-1501.	0.9	64
58	Human-Soil Relations are Changing Rapidly: Proposals from SSSA's Cross-Divisional Soil Change Working Group. Soil Science Society of America Journal, 2011, 75, 2079-2084.	1.2	70
59	How should we deal with the growing peer-review problem?. Biogeochemistry, 2010, 101, 1-3.	1.7	16
60	Comment on â€˜Kane et al. 2008. Precipitation control over inorganic nitrogen importâ€export budgets across watersheds: a synthesis of longâ€term ecological research. Ecohydrology 1(2): 105â€“117â€™. Ecohydrology, 2010, 3, 368-369.	1.1	0
61	The role of hillslope hydrology in controlling nutrient loss. Journal of Hydrology, 2009, 367, 177-187.	2.3	63
62	Contamination effects on soil density fractions from high N or C content sodium polytungstate. Biogeochemistry, 2009, 92, 177-181.	1.7	15
63	Sequential density fractionation across soils of contrasting mineralogy: evidence for both microbial- and mineral-controlled soil organic matter stabilization. Biogeochemistry, 2009, 96, 209-231.	1.7	304
64	Dissolved carbon and nitrogen losses from forests of the Oregon Cascades over a successional gradient. Plant and Soil, 2009, 318, 185-196.	1.8	13
65	Sources of plantâ€derived carbon and stability of organic matter in soil: implications for global change. Global Change Biology, 2009, 15, 2003-2019.	4.2	215
66	Increased coniferous needle inputs accelerate decomposition of soil carbon in an old-growth forest. Forest Ecology and Management, 2009, 258, 2224-2232.	1.4	118
67	A mechanistic assessment of nutrient flushing at the catchment scale. Journal of Hydrology, 2008, 358, 268-287.	2.3	64
68	Cation exchange capacity of density fractions from paired conifer/grassland soils. Biology and Fertility of Soils, 2007, 43, 837-841.	2.3	15
69	Density fractionation of forest soils: methodological questions and interpretation of incubation results and turnover time in an ecosystem context. Biogeochemistry, 2007, 85, 69-90.	1.7	215
70	Secondary CaCO3 and precipitation of Pâ€“Ca compounds control the retention of soil P in arid ecosystems. Journal of Arid Environments, 2006, 64, 460-473.	1.2	85
71	Successional and physical controls on the retention of nitrogen in an undisturbed boreal forest ecosystem. Oecologia, 2006, 148, 602-611.	0.9	6
72	Nitric oxide and nitrous oxide emission from Hungarian forest soils; linked with atmospheric N-deposition. Atmospheric Environment, 2006, 40, 7786-7795.	1.9	37

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73	Isotopic analysis of respired CO2 during decomposition of separated soil organic matter pools. Soil Biology and Biochemistry, 2006, 38, 3279-3291.	4.2	65
74	Organic C and N stabilization in a forest soil: Evidence from sequential density fractionation. Soil Biology and Biochemistry, 2006, 38, 3313-3324.	4.2	370
75	Effects of Succession on Nitrogen Export in the West-Central Cascades, Oregon. Ecosystems, 2005, 8, 583-601.	1.6	29
76	Chemistry and Dynamics of Dissolved Organic Matter in a Temperate Coniferous Forest on Andic Soils: Effects of Litter Quality. Ecosystems, 2005, 8, 286-300.	1.6	73
77	Contribution of aboveground litter, belowground litter, and rhizosphere respiration to total soil CO2 efflux in an old growth coniferous forest. Biogeochemistry, 2005, 73, 231-256.	1.7	269
78	Detrital Controls on Soil Solution N and Dissolved Organic Matter in Soils: A Field Experiment. Biogeochemistry, 2005, 76, 261-281.	1.7	99
79	The imprint of coarse woody debris on soil chemistry in the Western Oregon Cascades. Biogeochemistry, 2005, 71, 163-175.	1.7	6
80	Chemical and seasonal controls on the dynamics of dissolved organic matter in a coniferous old-growth stand in the Pacific Northwest, USA. Biogeochemistry, 2005, 71, 197-223.	1.7	7
81	Organic matter manipulations have little effect on gross and net nitrogen transformations in two temperate forest mineral soils in the USA and central Europe. Forest Ecology and Management, 2005, 214, 320-330.	1.4	45
82	Carbon cycling in soil. Frontiers in Ecology and the Environment, 2004, 2, 522-528.	1.9	111
83	The Fate and Retention of Organic and Inorganic 15N-Nitrogen in an Old-Growth Forest Soil in Western Oregon. Ecosystems, 2004, 7, 368.	1.6	26
84	The imprint of coarse woody debris on soil chemistry in the western Oregon Cascades. Biogeochemistry, 2004, 71, 163-175.	1.7	58
85	Chemical and Seasonal Controls on the Dynamics of Dissolved Organic Matter in a Coniferous Old-growth Stand in the Pacific Northwest, USA. Biogeochemistry, 2004, 71, 197-223.	1.7	51
86	Title is missing!. Biogeochemistry, 2003, 62, 87-117.	1.7	94
87	The influence of decomposing logs on soil biology and nutrient cycling in an old-growth mixed coniferous forest in Oregon, U.S.A.. Canadian Journal of Forest Research, 2003, 33, 2193-2201.	0.8	93
88	Mass loss and nitrogen dynamics during the decomposition of a 15N-labeled N2-fixing epiphytic lichen, Lobaria oregana. Canadian Journal of Botany, 2003, 81, 698-705.	1.2	12
89	Title is missing!. Biogeochemistry, 2002, 57, 171-197.	1.7	396
90	Title is missing!. Biogeochemistry, 2002, 57, 267-293.	1.7	298

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91	Title is missing!. Biogeochemistry, 2002, 57, 239-266.	1.7	50
92	Sources of nitrate in rivers draining sixteen watersheds in the northeastern U.S.: Isotopic constraints. , 2002, , 171-197.		22
93	Where did all the nitrogen go? Fate of nitrogen inputs to large watersheds in the northeastern U.S.A.. , 2002, , 267-293.		7
94	Forest nitrogen sinks in large eastern U.S. watersheds: estimates from forest inventory and an ecosystem model. , 2002, , 239-266.		0
95	Species effects of Ceanothus velutinus versus Pseudotsuga menziesii, Douglas-fir, on soil phosphorus and nitrogen properties in the Oregon cascades. Forest Ecology and Management, 2001, 149, 205-216.	1.4	29
96	A reanalysis of nutrient dynamics in coniferous coarse woody debris. Canadian Journal of Forest Research, 2001, 31, 1894-1902.	0.8	79
97	Ecosystem Nutrient Balance and Dynamics. , 2000, , 249-264.		4
98	Mussels as bioindicators of trace metal pollution in the Danube Delta of Romania. Hydrobiologia, 1999, 392, 143-158.	1.0	16
99	Transformation and retention of nitrogen in a coastal forest ecosystem. Biogeochemistry, 1998, 42, 325-343.	1.7	28
100	Trace metal concentrations in the sediments and plants of the Danube Delta, Romania. Wetlands, 1998, 18, 42-50.	0.7	55
101	Population dynamics and trace metal biogeochemistry of the saguaro cactus (<i>Carnegiea) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	6
102	NITROGEN LOADING FROM COASTAL WATERSHEDS TO RECEIVING ESTUARIES: NEW METHOD AND APPLICATION. , 1997, 7, 358-380.		334
103	Ecophysiology of the saguaro cactus (Carnegiea gigantea) in the Saguaro National Monument: relationship to symptoms of decline. Journal of Arid Environments, 1997, 36, 579-590.	1.2	14
104	Factors affecting phosphate sorption along a Mediterranean, dolomitic soil and vegetation chronosequence. European Journal of Soil Science, 1997, 48, 139-149.	1.8	38
105	Influence of excess nitrogen deposition on a white spruce (Picea glauca) stand in southern Alaska. Biogeochemistry, 1997, 38, 173-187.	1.7	20
106	Title is missing!. Biogeochemistry, 1997, 39, 87-120.	1.7	30
107	Application of a 15 N tracer to simulate and track the fate of atmospherically deposited N in the coastal forests of the Waquoit Bay Watershed, Cape Cod, Massachusetts. Oecologia, 1997, 112, 393-402.	0.9	60
108	NITROGEN LOADING FROM COASTAL WATERSHEDS TO RECEIVING ESTUARIES: NEW METHOD AND APPLICATION. , 1997, 7, 358.		7

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109	Regional nitrogen budgets and riverine N & P fluxes for the drainages to the North Atlantic Ocean: Natural and human influences. Biogeochemistry, 1996, 35, 75-139.	1.7	1,300
110	Regional nitrogen budgets and riverine N & P fluxes for the drainages to the North Atlantic Ocean: Natural and human influences. , 1996, , 75-139.		264
111	Retention and leaching losses of atmospherically-derived nitrogen in the aggrading coastal watershed of Waquoit Bay, MA. Biogeochemistry, 1995, 28, 33-54.	1.7	76
112	Soil nitrogen availability and nitrification in Mediterranean shrublands of varying fire history and successional stage. Biogeochemistry, 1994, 26, 189.	1.7	70
113	Nutrient uptake in eastern deciduous tree seedlings. Plant and Soil, 1994, 160, 193-199.	1.8	24
114	Photosynthesis and water-use efficiency in pinyon-juniper communities along an elevation gradient in northern New Mexico. Oecologia, 1993, 94, 95-101.	0.9	81
115	The Effects of Prescribed Burning on Nutrient Availability and Primary Production in Sandplain Grasslands. American Midland Naturalist, 1993, 130, 286.	0.2	26
116	Plant Spatial Pattern and Nutrient Distribution in Pinyon-Juniper Woodlands Along an Elevational Gradient in Northern New Mexico. International Journal of Plant Sciences, 1992, 153, 425-433.	0.6	84
117	Nitrification and nitrate reductase activity along a secondary successional gradient. Plant and Soil, 1992, 145, 1-10.	1.8	23
118	Couplings of Watersheds and Coastal Waters: Sources and Consequences of Nutrient Enrichment in Waquoit Bay, Massachusetts. Estuaries and Coasts, 1992, 15, 443.	1.7	524
119	Carbon gain and water use in pinyon pine-juniper woodlands of northern New Mexico: field versus phytotron chamber measurements. Tree Physiology, 1991, 9, 59-67.	1.4	48
120	The effect of water and nitrogen amendments on photosynthesis, leaf demography, and resource-use efficiency in Larrea tridentata, a desert evergreen shrub. Oecologia, 1989, 80, 341-348.	0.9	137
121	The use of ion-exchange resin bags for measuring nutrient availability in an arid ecosystem. Plant and Soil, 1988, 105, 105-111.	1.8	79
122	The effect of varying nitrogen and phosphorus availability on nutrient use by Larrea tridentata, a desert evergreen shrub. Oecologia, 1988, 75, 348-353.	0.9	71
123	The Biogeochemistry of Phosphorus Cycling and Phosphorus Availability Along a Desert Soil Chronosequence. Ecology, 1988, 69, 24-39.	1.5	237
124	FACTORS AFFECTING PHOSPHATE SORPTION AND PHOSPHATE RETENTION IN A DESERT ECOSYSTEM. Soil Science, 1988, 146, 160-167.	0.9	45
125	The Effect of CaCO3on the Uptake of Phosphorous by Two Desert Shrub Species, Larrea tridentata (DC.) Cov. and Parthenium incanum H. B. K.. Botanical Gazette, 1988, 149, 328-334.	0.6	22
126	Biochemical Cycles of Soil Nutrients. Ecology, 1987, 68, 457-458.	1.5	0

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127	Nutrient reabsorption efficiency and the response to phosphorus fertilization in the desert shrubLarrea tridentata (DC.) Cov.. Biogeochemistry, 1987, 4, 265-276.	1.7	95
128	Plant Ecology and Landscape Geomorphology. Ecology, 1986, 67, 824-824.	1.5	0
129	Decomposition and nutrient dynamics of litter from four species of freshwater emergent macrophytes. Hydrobiologia, 1986, 131, 215-223.	1.0	49
130	Plant response to variations in nitrogen availability in a desert shrubland community. Biogeochemistry, 1986, 2, 29-37.	1.7	100