

Oliver A Chadwick

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

9,917
citations

45
h-index

99
g-index

99
ext. papers

11,080
ext. citations

7.2
avg, IF

6.01
L-index

#	Paper	IF	Citations
98	Mineral control of soil organic carbon storage and turnover. <i>Nature</i> , 1997 , 389, 170-173	50.4	1090
97	Changing sources of nutrients during four million years of ecosystem development. <i>Nature</i> , 1999 , 397, 491-497	50.4	950
96	Rapid Exchange Between Soil Carbon and Atmospheric Carbon Dioxide Driven by Temperature Change. <i>Science</i> , 1996 , 272, 393-396	33.3	590
95	Linking litter calcium, earthworms and soil properties: a common garden test with 14 tree species. <i>Ecology Letters</i> , 2005 , 8, 811-818	10	483
94	From a black to a gray box: a mass balance interpretation of pedogenesis. <i>Geomorphology</i> , 1990 , 3, 369-390	4.3	328
93	Modeling Soil Landscape and Ecosystem Properties Using Terrain Attributes. <i>Soil Science Society of America Journal</i> , 2000 , 64, 2046-2056	2.5	311
92	The chemistry of pedogenic thresholds. <i>Geoderma</i> , 2001 , 100, 321-353	6.7	300
91	Impact of desert dust on the biogeochemistry of phosphorus in terrestrial ecosystems. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	295
90	The impact of climate on the biogeochemical functioning of volcanic soils. <i>Chemical Geology</i> , 2003 , 202, 195-223	4.2	294
89	Understanding ecosystem retrogression. <i>Ecological Monographs</i> , 2010 , 80, 509-529	9	280
88	Deformational mass transport and invasive processes in soil evolution. <i>Science</i> , 1992 , 255, 695-702	33.3	255
87	Refractory element mobility in volcanic soils. <i>Geology</i> , 2000 , 28, 683	5	243
86	The Effect of Plants on Mineral Weathering. <i>Biogeochemistry</i> , 1998 , 42, 21-53	3.8	200
85	Biologic cycling of silica across a grassland bioclimate sequence. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	200
84	Water balance creates a threshold in soil pH at the global scale. <i>Nature</i> , 2016 , 540, 567-569	50.4	186
83	Long-term carbon storage through retention of dissolved aromatic acids by reactive particles in soil. <i>Global Change Biology</i> , 2012 , 18, 2594-2605	11.4	175
82	Biogeochemistry of mineral-organic associations across a long-term mineralogical soil gradient (0.3-100 kyr), Hawaiian Islands. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 2034-2060	5.5	174

81	Tree Species Effects on Soil Organic Matter Dynamics: The Role of Soil Cation Composition. <i>Ecosystems</i> , 2007 , 10, 999-1018	3.9	163
80	Surface charge evolution of mineral-organic complexes during pedogenesis in Hawaiian basalt. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 4859-4876	5.5	158
79	Weathering controls on mechanisms of carbon storage in grassland soils. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	150
78	Tree species effects on coupled cycles of carbon, nitrogen, and acidity in mineral soils at a common garden experiment. <i>Biogeochemistry</i> , 2012 , 111, 601-614	3.8	140
77	Uplift, Erosion, and Phosphorus Limitation in Terrestrial Ecosystems. <i>Ecosystems</i> , 2007 , 10, 159-171	3.9	140
76	Soils, agriculture, and society in precontact Hawai'i. <i>Science</i> , 2004 , 304, 1665-9	33.3	124
75	Dating fluvial terraces by ²³⁰ Th/ ^U on pedogenic carbonate, Wind River Basin, Wyoming. <i>Quaternary Research</i> , 2003 , 59, 139-150	1.9	124
74	CARBON CYCLING AND SOIL CARBON STORAGE IN MESIC TO WET HAWAIIAN MONTANE FORESTS. <i>Ecology</i> , 2001 , 82, 3182-3196	4.6	120
73	Redox control of phosphorus pools in Hawaiian montane forest soils. <i>Geoderma</i> , 2001 , 102, 219-237	6.7	107
72	Erosion and the Rejuvenation of Weathering-derived Nutrient Supply in an Old Tropical Landscape. <i>Ecosystems</i> , 2003 , 6, 762-772	3.9	105
71	Climate-driven thresholds in reactive mineral retention of soil carbon at the global scale. <i>Nature Climate Change</i> , 2018 , 8, 1104-1108	21.4	96
70	Large area mapping of land-cover change in Rondônia using multitemporal spectral mixture analysis and decision tree classifiers. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 40-1		90
69	Weathering versus atmospheric sources of strontium in ecosystems on young volcanic soils. <i>Oecologia</i> , 1999 , 121, 255-259	2.9	88
68	Ca cycling and isotopic fluxes in forested ecosystems in Hawaii. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	85
67	Pedogenic Thresholds and Soil Process Domains in Basalt-Derived Soils. <i>Ecosystems</i> , 2013 , 16, 1379-1395	3.9	81
66	Combining spectroscopic and isotopic techniques gives a dynamic view of phosphorus cycling in soil. <i>Nature Communications</i> , 2018 , 9, 3226	17.4	78
65	Climate Cycles, Geomorphological Change, and the Interpretation of Soil and Ecosystem Development. <i>Ecosystems</i> , 2000 , 3, 522-533	3.9	77
64	Behavior of lithium and its isotopes during weathering of Hawaiian basalt. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5, n/a-n/a	3.6	67

63	Production of CO ₂ in Soil Profiles of a California Annual Grassland. <i>Ecosystems</i> , 2005 , 8, 412-429	3.9	67
62	Variation in Rapa Nui (Easter Island) land use indicates production and population peaks prior to European contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1025-30	11.5	65
61	Effects of litter traits, soil biota, and soil chemistry on soil carbon stocks at a common garden with 14 tree species. <i>Biogeochemistry</i> , 2015 , 123, 313-327	3.8	61
60	The mass balance of soil evolution on late Quaternary marine terraces, northern California. <i>Bulletin of the Geological Society of America</i> , 1992 , 104, 1456-1470	3.9	61
59	Ca, Sr and Ba stable isotopes reveal the fate of soil nutrients along a tropical climosequence in Hawaii. <i>Chemical Geology</i> , 2016 , 422, 25-45	4.2	59
58	Evaluating two experimental approaches for measuring ecosystem carbon oxidation state and oxidative ratio. <i>Journal of Geophysical Research</i> , 2008 , 113,		58
57	Convergence and contrast in the community structure of Bacteria, Fungi and Archaea along a tropical elevation-climate gradient. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	53
56	Base cation biogeochemistry and weathering under oak and pine: a controlled long-term experiment. <i>Biogeochemistry</i> , 1996 , 35, 377-398	3.8	53
55	Mineralogical controls on soil black carbon preservation. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	52
54	Climate-driven thresholds for chemical weathering in postglacial soils of New Zealand. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 1619-1634	3.8	51
53	Carbon delivery to deep mineral horizons in Hawaiian rain forest soils. <i>Journal of Geophysical Research</i> , 2011 , 116,		44
52	Precontact vegetation and soil nutrient status in the shadow of Kohala Volcano, Hawaii. <i>Geomorphology</i> , 2007 , 89, 70-83	4.3	43
51	Shaping post-orogenic landscapes by climate and chemical weathering. <i>Geology</i> , 2013 , 41, 1171-1174	5	42
50	Impact of rainfall and topography on the distribution of clays and major cations in granitic catenas of southern Africa. <i>Catena</i> , 2011 , 87, 119-128	5.8	42
49	Measurement of soil carbon oxidation state and oxidative ratio by ¹³ C nuclear magnetic resonance. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		42
48	Controls over leaf and litter calcium concentrations among temperate trees. <i>Biogeochemistry</i> , 2007 , 86, 175-187	3.8	40
47	Structural Charge and Cesium Retention in a Chronosequence of Tephritic Soils. <i>Soil Science Society of America Journal</i> , 1999 , 63, 169-177	2.5	39
46	The ratio of germanium to silicon in plant phytoliths: quantification of biological discrimination under controlled experimental conditions. <i>Biogeochemistry</i> , 2007 , 86, 189-199	3.8	38

45	Multi-scale variability in tropical soil nutrients following land-cover change. <i>Biogeochemistry</i> , 2005 , 74, 173-203	3.8	36
44	Natural Isotopic Distribution in Soil Surface Horizons Differentiated by Vegetation. <i>Soil Science Society of America Journal</i> , 2003 , 67, 1544-1550	2.5	34
43	Changes in carbon storage with land management promoted by payment for ecosystem services. <i>Environmental Conservation</i> , 2016 , 43, 397-406	3.3	34
42	Spatially Explicit Treatment of Soil-Water Dynamics along a Semiarid Catena. <i>Soil Science Society of America Journal</i> , 2002 , 66, 1571-1583	2.5	33
41	Depth and character of rock weathering across a basaltic-hosted climosequence on Hawai'i. <i>Earth Surface Processes and Landforms</i> , 2014 , 39, 381-398	3.7	30
40	Large-area spatially explicit estimates of tropical soil carbon stocks and response to land-cover change. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	30
39	Soil nutrient analysis of Rapa Nui gardening. <i>Archaeology in Oceania</i> , 2010 , 45, 80-85	0.7	29
38	Quantifying Uncertainties in Sequential Chemical Extraction of Soil Phosphorus Using XANES Spectroscopy. <i>Environmental Science & Technology</i> , 2020 , 54, 2257-2267	10.3	29
37	Controls on carbon storage and weathering in volcanic soils across a high-elevation climate gradient on Mauna Kea, Hawaii. <i>Ecology</i> , 2016 , 97, 2384-2395	4.6	28
36	Dependence of Forest Structure and Dynamics on Substrate Age and Ecosystem Development. <i>Ecosystems</i> , 2011 , 14, 1156-1167	3.9	25
35	Holocene and Anthropocene Landscape Change: Arroyo Formation on Santa Cruz Island, California. <i>Annals of the American Association of Geographers</i> , 2012 , 102, 1229-1250		24
34	Pedothem carbonates reveal anomalous North American atmospheric circulation 70,000-55,000 years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 919-24	11.5	22
33	Quantification of colloidal and aqueous element transfer in soils: The dual-phase mass balance model. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 151, 1-18	5.5	22
32	Cellular and extracellular C contributions to respiration after wetting dry soil. <i>Biogeochemistry</i> , 2020 , 147, 307-324	3.8	21
31	Soil databases and the problem of establishing regional biogeochemical trends. <i>Global Change Biology</i> , 2004 , 10, 796-814	11.4	20
30	Controls of nitrogen cycling evaluated along a well-characterized climate gradient. <i>Ecology</i> , 2017 , 98, 1117-1129	4.6	19
29	Indicators of soil fertility and opportunities for precontact agriculture in Kona, Hawai'i. <i>Ecosphere</i> , 2014 , 5, art42	3.1	19
28	Long-term effects of agriculture on soil carbon pools and carbon chemistry along a Hawaiian environmental gradient. <i>Biogeochemistry</i> , 2013 , 112, 229-243	3.8	19

27	Erosion, Geological History, and Indigenous Agriculture: A Tale of Two Valleys. <i>Ecosystems</i> , 2010 , 13, 782-793	3.9	18
26	Biogeochemical Cycling of Calcium and Magnesium by Ceanothus and Chamise. <i>Soil Science Society of America Journal</i> , 1999 , 63, 1880-1888	2.5	18
25	Chemical transfers along slowly eroding catenas developed on granitic cratons in southern Africa. <i>Geoderma</i> , 2013 , 202-203, 192-202	6.7	17
24	Parent material and pedogenic thresholds: observations and a simple model. <i>Biogeochemistry</i> , 2016 , 130, 147-157	3.8	15
23	Climatically controlled delivery and retention of meteoric ¹⁰ Be in soils. <i>Geology</i> , 2018 , 46, 899-902	5	13
22	Pathways of soil genesis in the Coast Range of Oregon, USA. <i>Plant and Soil</i> , 2013 , 367, 57-75	4.2	10
21	Relationships between GPP, Satellite Measures of Greenness and Canopy Water Content with Soil Moisture in Mediterranean-Climate Grassland and Oak Savanna. <i>Applied and Environmental Soil Science</i> , 2011 , 2011, 1-14	3.8	10
20	Modeling deep soil properties on California grassland hillslopes using LiDAR digital elevation models. <i>Geoderma Regional</i> , 2016 , 7, 67-75	2.7	9
19	What's in a name? The importance of soil taxonomy for ecology and biogeochemistry. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 405-406	5.5	9
18	Regional Characterization of Pasture Changes through Time and Space in Rondônia, Brazil. <i>Earth Interactions</i> , 2007 , 11, 1-25	1.5	9
17	Prediction of sediment-bound nutrient delivery from semi-arid California watersheds. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		9
16	Thermal oxidation of carbon in organic matter rich volcanic soils: insights into SOC age differentiation and mineral stabilization. <i>Biogeochemistry</i> , 2019 , 144, 291-304	3.8	7
15	Top-Down Analysis of Forest Structure and Biogeochemistry Across Hawaiian Landscapes. <i>Pacific Science</i> , 2010 , 64, 359-366	0.9	6
14	Quantitative Analysis of Pedogenic Thresholds and Domains in Volcanic Soils. <i>Ecosystems</i> , 2019 , 22, 1633-1649	3.5	5
13	Landscape Age as a Major Control on the Geography of Soil Weathering. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1513-1531	5.9	5
12	Quantifying erosional equilibrium across a slowly eroding, soil mantled landscape. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 499-510	3.7	5
11	Resilience against exotic species invasion in a tropical montane forest. <i>Journal of Vegetation Science</i> , 2014 , 25, 734-749	3.1	3
10	Pacific islands in the Anthropocene. <i>Elementa</i> , 2013 , 1,	3.6	3

9	Rock weathering controls the potential for soil carbon storage at a continental scale. <i>Biogeochemistry</i> , 2022 , 157, 1	3.8	3
8	Nitrogen dynamics along a climate gradient on geologically old substrate, Kaua'i, Hawai'i. <i>Oecologia</i> , 2019 , 189, 211-219	2.9	3
7	Primary Succession on a Hawaiian Dryland Chronosequence. <i>PLoS ONE</i> , 2015 , 10, e0123995	3.7	2
6	CARBON CYCLING AND SOIL CARBON STORAGE IN MESIC TO WET HAWAIIAN MONTANE FORESTS 2001 , 82, 3182		2
5	A Boyl model of biogeochemical dynamics on climate gradients. <i>Biogeochemistry</i> , 2021 , 154, 183-210	3.8	2
4	The trajectory of soil development and its relationship to soil carbon dynamics. <i>Geoderma</i> , 2021 , 403, 115378	6.7	1
3	Mineral protection and resource limitations combine to explain profile-scale soil carbon persistence. <i>Journal of Geophysical Research G: Biogeosciences</i> ,	3.7	1
2	Landscape level effects of invasive plants and animals on water infiltration through Hawaiian tropical forests. <i>Biological Invasions</i> , 2021 , 23, 2155-2172	2.7	0
1	Constraints of Climate and Age on Soil Development in Hawaii 2022 , 49-88		0