

Soil Science

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1.

Baath E, Wallander H. Soil and rhizosphere microorganisms have the same Q10 for respiration in a model system. *Global Change Biology*. 2003 Dec;9(12):1788–1791.

2.

Andrews JA, Schlesinger WH. Soil CO₂ dynamics, acidification, and chemical weathering in a temperate forest with experimental CO₂ enrichment. *Global Biogeochemical Cycles*. 2001 Mar;15(1):149–162.

3.

Aber JD. Nitrogen cycling and nitrogen saturation in temperate forest ecosystems. *Trends in Ecology & Evolution*. 1992 Jul;7(7):220–224.

4.

Evans CD, Goodale CL, Caporn SJM, Dise NB, Emmett BA, Fernandez IJ, Field CD, Findlay SEG, Lovett GM, Meesenburg H, Moldan F, Sheppard LJ. Does elevated nitrogen deposition or ecosystem recovery from acidification drive increased dissolved organic carbon loss from upland soil? A review of evidence from field nitrogen addition experiments. *Biogeochemistry*. 2008 Oct;91(1):13–35.

5.

Guo LB, Gifford RM. Soil carbon stocks and land use change: a meta analysis. *Global Change Biology*. 2002 Apr;8(4):345–360.

6.

Farley KA, Piñeiro G, Palmer SM, Jobbágy EG, Jackson RB. Stream acidification and base cation losses with grassland afforestation. *Water Resources Research*. 2008 Jul;44(7):n/a-n/a.

7.

GERSHENSON A, BADER NE, CHENG W. Effects of substrate availability on the temperature sensitivity of soil organic matter decomposition. *Global Change Biology*. 2009 Jan;15(1):176–183.

8.

Giardina, Christian P. Evidence that decomposition rates of organic carbon in mineral soil do not vary with temperature. *Nature* [Internet]. 2000;404(6780). Available from: <http://search.ebscohost.com/login.aspx?direct=true&db=aph&AN=3069988&site=ehost-live>

9.

Emmett BA, Beier C, Estiarte M, Tietema A, Kristensen HanneL, Williams D, Peñuelas J, Schmidt I, Sowerby A. The Response of Soil Processes to Climate Change: Results from Manipulation Studies of Shrublands Across an Environmental Gradient. *Ecosystems*. 2004 Oct;7(6).

10.

HANSEN K, ROSENQVIST L, VESTERDAL L, GUNDERSEN P. Nitrate leaching from three afforestation chronosequences on former arable land in Denmark. *Global Change Biology*. 2007 Jun;13(6):1250–1264.

11.

Haygarth PM, Ritz K. The future of soils and land use in the UK: Soil systems for the provision of land-based ecosystem services. *Land Use Policy*. 2009 Dec;26:S187–S197.

12.

Robert L. Crocker and Jack Major. Soil Development in Relation to Vegetation and Surface Age at Glacier Bay, Alaska. *Journal of Ecology* [Internet]. British Ecological Society;

1955;43(2):427–448. Available from:
<http://www.jstor.org/stable/10.2307/2257005?origin=crossref&>

13.

CONANT RT, DRIJBER RA, HADDIX ML, PARTON WJ, PAUL EA, PLANTE AF, SIX J, STEINWEG JM. Sensitivity of organic matter decomposition to warming varies with its quality. *Global Change Biology*. 2008 Jan 8;14(4):868–877.

14.

Brantley SL. GEOLOGY: Understanding Soil Time. *Science*. 2008 Sep 12;321(5895):1454–1455.

15.

Dawson JJC, Smith P. Carbon losses from soil and its consequences for land-use management. *Science of The Total Environment*. 2007 Sep 1;382(2–3):165–190.

16.

Bormann BT, Wang D, Snyder MC, Bormann FH, Benoit G, April R. Rapid, plant-induced weathering in an aggrading experimental ecosystem. *Biogeochemistry*. 1998;43(2):129–155.

17.

Hodge I, Reader M. The introduction of Entry Level Stewardship in England: Extension or dilution in agri-environment policy? *Land Use Policy*. 2010 Apr;27(2):270–282.

18.

Wesselink LG, Meiwes KJoseph, Matzner Egbert, Stein Alfred. Long-Term Changes in Water and Soil Chemistry in Spruce and Beech Forests, Solling, Germany. *Environmental Science & Technology*. 1995 Jan;29(1):51–58.

19.

Vesterdal L, Ritter E, Gundersen P. Change in soil organic carbon following afforestation of former arable land. *Forest Ecology and Management*. 2002 Sep;169(1-2):137-147.

20.

Smith P, Powlson DS, Smith JU, Falloon P, Coleman K. Meeting Europe's climate change commitments: quantitative estimates of the potential for carbon mitigation by agriculture. *Global Change Biology*. 2000 Jun;6(5):525-539.

21.

SMITH P, POWLSON D, GLENDINING M, SMITH J. Potential for carbon sequestration in European soils: preliminary estimates for five scenarios using results from long-term experiments. *Global Change Biology*. 1997 Feb;3(1):67-79.

22.

Trumbore SE, Czimczik CI. GEOLOGY: An Uncertain Future for Soil Carbon. *Science*. 2008 Sep 12;321(5895):1455-1456.

23.

L. R, J. C, G. M, R. N, M. M, A. H, J. C, J. G, Not Available NA. A meta-analysis of the response of soil respiration, net nitrogen mineralization, and aboveground plant growth to experimental ecosystem warming. *Oecologia*. 2001 Feb 22;126(4):543-562.

24.

Post WM, Kwon KC. Soil carbon sequestration and land-use change: processes and potential. *Global Change Biology*. 2000 Mar;6(3):317-327.

25.

Robinson GM. Ontario's Environmental Farm Plan: Evaluation and research agenda. *Geoforum*. 2006 Sep;37(5):859-873.

26.

OH NH, HOFMOCKEL M, LAVINE ML, RICHTER DD. Did elevated atmospheric CO₂ alter soil mineral weathering?: an analysis of 5-year soil water chemistry data at Duke FACE study. *Global Change Biology*. 2007 Dec;13(12):2626–2641.

27.

Ostle NJ, Levy PE, Evans CD, Smith P. UK land use and soil carbon sequestration. *Land Use Policy*. 2009 Dec;26:S274–S283.

28.

Palmer SM, Driscoll CT, Johnson CE. Long-term trends in soil solution and stream water chemistry at the Hubbard Brook Experimental Forest: relationship with landscape position. *Biogeochemistry*. 2004 Mar;68(1):51–70.

29.

MORRIS SJ, BOHM S, HAILE-MARIAM S, PAUL EA. Evaluation of carbon accrual in afforested agricultural soils. *Global Change Biology*. 2007 Jun;13(6):1145–1156.

30.

Magill AH, Aber JD, Currie WS, Nadelhoffer KJ, Martin ME, McDowell WH, Melillo JM, Steudler P. Ecosystem response to 15 years of chronic nitrogen additions at the Harvard Forest LTER, Massachusetts, USA. *Forest Ecology and Management*. 2004 Jul;196(1):7–28.

31.

McLauchlan KK. Effects of soil texture on soil carbon and nitrogen dynamics after cessation of agriculture. *Geoderma*. 2006 Dec;136(1-2):289–299.

32.

A. David McGuire, Leif G. Anderson, Torben R. Christensen, Scott Dallimore, Laodong Guo, Daniel J. Hayes, Martin Heimann, Thomas D. Lorenson, Robie W. Macdonald and Nigel Roulet. Sensitivity of the Carbon Cycle in the Arctic to Climate Change. *Ecological Monographs* [Internet]. Ecological Society of America; 2009;79(4):523–555. Available from: <http://www.jstor.org/stable/40385226>

33.

MacDonald JA, Dise NB, Matzner E, Armbruster M, Gundersen P, Forsius M. Nitrogen input together with ecosystem nitrogen enrichment predict nitrate leaching from European forests. *Global Change Biology*. 2002 Oct;8(10):1028–1033.

34.

Lovett GM, Weathers KC, Arthur MA, Schultz JC. Nitrogen cycling in a northern hardwood forest: Do species matter? *Biogeochemistry*. 2004 Feb;67(3):289–308.

35.

Lovett GM, Goodale CL. A New Conceptual Model of Nitrogen Saturation Based on Experimental Nitrogen Addition to an Oak Forest. *Ecosystems*. 2011 Jun;14(4):615–631.

36.

Jobbágy EG, Jackson RB. Patterns and mechanisms of soil acidification in the conversion of grasslands to forests. *Biogeochemistry*. 2003;64(2):205–229.

37.

Kay P, Edwards AC, Foulger M. A review of the efficacy of contemporary agricultural stewardship measures for ameliorating water pollution problems of key concern to the UK water industry. *Agricultural Systems*. 2009 Feb;99(2–3):67–75.

38.

Kirchner JW, Lydersen Espen. Base Cation Depletion and Potential Long-Term Acidification of Norwegian Catchments. *Environmental Science & Technology*. 1995 Aug;29(8):1953–1960.

39.

KIRK GJD, BELLAMY PH, LARK RM. Changes in soil pH across England and Wales in response to decreased acid deposition. *Global Change Biology*. 2009 Nov 19;no-no.

40.

LAGANIĆ RE J, ANGERS DA, PARÁ D. Carbon accumulation in agricultural soils after afforestation: a meta-analysis. *Global Change Biology*. 2010 Jan;16(1):439–453.

41.

KIRSCHBAUM M. The temperature dependence of organic-matter decomposition—still a topic of debate. *Soil Biology and Biochemistry*. 2006 Sep;38(9):2510–2518.

42.

Kirschbaum MUF. Will changes in soil organic carbon act as a positive or negative feedback on global warming? *Biogeochemistry*. 2000;48(1):21–51.

43.

Wright RF, Larssen T, Camarero L, Cosby BJ, Ferrier RC, Helliwell R, Forsius M, Jenkins A, Kopáček J, Majer V, Moldan F, Posch M, Rogora M, Schöpp W. Recovery of Acidified European Surface Waters. *Environmental Science & Technology*. 2005 Feb;39(3):64A–72A.

44.

KIRK GJD, BELLAMY PH, LARK RM. Changes in soil pH across England and Wales in response to decreased acid deposition. *Global Change Biology*. 2009 Nov 19;no-no.

45.

Mörth CM, Torssander P, Kjønnaas OJ, O Stuanes A, Moldan F, Giesler R. Mineralization of Organic Sulfur Delays Recovery from Anthropogenic Acidification. *Environmental Science & Technology*. 2005 Jul;39(14):5234–5240.

46.

White RE, MyiLibrary. Principles and practice of soil science: the soil as a natural resource [Internet]. 4th ed. Malden, Massachusetts: Blackwell; 2006. Available from: <http://www.myilibrary.com?id=211680>

47.

Schjørring P, Elmholt S, Christensen BT, ebrary, Inc. Managing soil quality: challenges in modern agriculture [Internet]. Wallingford, Oxon: CABI Pub; 2004. Available from: <http://site.ebrary.com/lib/unnc/Doc?id=10173496>

48.

Schaetzl RJ, Anderson S. Soils: genesis and geomorphology. Cambridge: Cambridge University Press; 2005.

49.

Yong RN, Nakano M, Pusch R. Environmental soil properties and behaviour. Boca Raton, FL: CRC Press; 2012.

50.

Nathanail CP, Bardos P. Reclamation of contaminated land. Chichester, West Sussex, England: Wiley; 2004.

51.

National Research Council (U.S.), ebrary, Inc. Sustainable agriculture and the environment in the humid tropics [Internet]. Washington, D.C.: National Academy Press; 1993. Available from: <http://site.ebrary.com/lib/unnc/Doc?id=10072116>

52.

ebrary, Inc. Soil and water quality: an agenda for agriculture [Internet]. Washington, D.C.: National Academy Press; 1993. Available from: <http://site.ebrary.com/lib/unnc/Doc?id=10054995>

53.

Jenny H. Factors of soil formation: a system of quantitative pedology. New York: McGraw-Hill; 1941.

54.

Haygarth PM, Jarvis SC, ebrary, Inc. Agriculture, hydrology, and water quality [Internet]. Wallingford: CABI; 2002. Available from: <http://site.ebrary.com/lib/unnc/Doc?id=10060479>

55.

Gardiner DT, Miller RW. Soils in our environment. 10th ed. Upper Saddle River, N.J.: Pearson/Prentice Hall; 2004.

56.

Wall DH. Soil ecology and ecosystem services. Oxford: Oxford University Press; 2012.

57.

Bohn HL, O'Connor GA, McNeal BL. Soil chemistry. 2nd ed. New York: John Wiley & Sons; 1985.

58.

Bardgett RD. The biology of soil: a community and ecosystem approach. New York: Oxford University Press; 2005.

59.

Brady NC, Weil RR. The nature and properties of soils. 12th ed. Upper Saddle River, N.J.: Prentice Hall; 1998.

60.

Ashman MR, Puri G, MyiLibrary. Essential soil science: a clear and concise introduction to soil science [Internet]. Oxford: Blackwell Science; 2002. Available from: <http://www.myilibrary.com?id=211757>

61.

Ågren GI, Andersson F. Terrestrial ecosystem ecology: principles and applications. Cambridge: Cambridge University Press; 2012.