

# Soil Science

[View Online](#)

---

1.

Baath E, Wallander H. Soil and rhizosphere microorganisms have the same Q10 for respiration in a model system. *Global Change Biology*. 2003;9(12):1788-1791. doi:10.1046/j.1365-2486.2003.00692.x

2.

Andrews JA, Schlesinger WH. Soil CO<sub>2</sub> dynamics, acidification, and chemical weathering in a temperate forest with experimental CO<sub>2</sub> enrichment. *Global Biogeochemical Cycles*. 2001;15(1):149-162. doi:10.1029/2000GB001278

3.

Aber JD. Nitrogen cycling and nitrogen saturation in temperate forest ecosystems. *Trends in Ecology & Evolution*. 1992;7(7):220-224. doi:10.1016/0169-5347(92)90048-G

4.

Evans CD, Goodale CL, Caporn SJM, et al. 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;91(1):13-35. doi:10.1007/s10533-008-9256-x

5.

Guo LB, Gifford RM. Soil carbon stocks and land use change: a meta analysis. *Global Change Biology*. 2002;8(4):345-360. doi:10.1046/j.1354-1013.2002.00486.x

6.

Farley KA, Piñeiro G, Palmer SM, Jobbágy EG, Jackson RB. Stream acidification and base cation losses with grassland afforestation. *Water Resources Research*. 2008;44(7):n/a-n/a. doi:10.1029/2007WR006659

7.

GERSHENSON A, BADER NE, CHENG W. Effects of substrate availability on the temperature sensitivity of soil organic matter decomposition. *Global Change Biology*. 2009;15(1):176-183. doi:10.1111/j.1365-2486.2008.01827.x

8.

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

9.

Emmett BA, Beier C, Estiarte M, et al. The Response of Soil Processes to Climate Change: Results from Manipulation Studies of Shrublands Across an Environmental Gradient. *Ecosystems*. 2004;7(6). doi:10.1007/s10021-004-0220-x

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;13(6):1250-1264. doi:10.1111/j.1365-2486.2007.01355.x

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;26:S187-S197. doi:10.1016/j.landusepol.2009.09.016

12.

Robert L. Crocker and Jack Major. *Soil Development in Relation to Vegetation and Surface*

Age at Glacier Bay, Alaska. *Journal of Ecology*. 1955;43(2):427-448.  
<http://www.jstor.org/stable/10.2307/2257005?origin=crossref&>

13.

CONANT RT, DRIJBER RA, HADDIX ML, et al. Sensitivity of organic matter decomposition to warming varies with its quality. *Global Change Biology*. 2008;14(4):868-877.  
doi:10.1111/j.1365-2486.2008.01541.x

14.

Brantley SL. GEOLOGY: Understanding Soil Time. *Science*. 2008;321(5895):1454-1455.  
doi:10.1126/science.1161132

15.

Dawson JJC, Smith P. Carbon losses from soil and its consequences for land-use management. *Science of The Total Environment*. 2007;382(2-3):165-190.  
doi:10.1016/j.scitotenv.2007.03.023

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. doi:10.1023/A:1006065620344

17.

Hodge I, Reader M. The introduction of Entry Level Stewardship in England: Extension or dilution in agri-environment policy? *Land Use Policy*. 2010;27(2):270-282.  
doi:10.1016/j.landusepol.2009.03.005

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;29(1):51-58. doi:10.1021/es00001a006

19.

Vesterdal L, Ritter E, Gundersen P. Change in soil organic carbon following afforestation of former arable land. *Forest Ecology and Management*. 2002;169(1-2):137-147. doi:10.1016/S0378-1127(02)00304-3

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;6(5):525-539. doi:10.1046/j.1365-2486.2000.00331.x

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;3(1):67-79. doi:10.1046/j.1365-2486.1997.00055.x

22.

Trumbore SE, Czimczik CI. GEOLOGY: An Uncertain Future for Soil Carbon. *Science*. 2008;321(5895):1455-1456. doi:10.1126/science.1160232

23.

L. R, J. C, G. M, et al. A meta-analysis of the response of soil respiration, net nitrogen mineralization, and aboveground plant growth to experimental ecosystem warming. *Oecologia*. 2001;126(4):543-562. doi:10.1007/s004420000544

24.

Post WM, Kwon KC. Soil carbon sequestration and land-use change: processes and potential. *Global Change Biology*. 2000;6(3):317-327. doi:10.1046/j.1365-2486.2000.00308.x

25.

Robinson GM. Ontario's Environmental Farm Plan: Evaluation and research agenda. *Geoforum*. 2006;37(5):859-873. doi:10.1016/j.geoforum.2005.05.002

26.

OH NH, HOFMOCKEL M, LAVINE ML, RICHTER DD. Did elevated atmospheric CO<sub>2</sub> alter soil mineral weathering?: an analysis of 5-year soil water chemistry data at Duke FACE study. *Global Change Biology*. 2007;13(12):2626-2641. doi:10.1111/j.1365-2486.2007.01452.x

27.

Ostle NJ, Levy PE, Evans CD, Smith P. UK land use and soil carbon sequestration. *Land Use Policy*. 2009;26:S274-S283. doi:10.1016/j.landusepol.2009.08.006

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;68(1):51-70. doi:10.1023/B:BLOG.0000025741.88474.0d

29.

MORRIS SJ, BOHM S, HAILE-MARIAM S, PAUL EA. Evaluation of carbon accrual in afforested agricultural soils. *Global Change Biology*. 2007;13(6):1145-1156. doi:10.1111/j.1365-2486.2007.01359.x

30.

Magill AH, Aber JD, Currie WS, et al. Ecosystem response to 15 years of chronic nitrogen additions at the Harvard Forest LTER, Massachusetts, USA. *Forest Ecology and Management*. 2004;196(1):7-28. doi:10.1016/j.foreco.2004.03.033

31.

McLauchlan KK. Effects of soil texture on soil carbon and nitrogen dynamics after cessation of agriculture. *Geoderma*. 2006;136(1-2):289-299. doi:10.1016/j.geoderma.2006.03.053

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*. 2009;79(4):523-555. <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;8(10):1028-1033. doi:10.1046/j.1365-2486.2002.00532.x

34.

Lovett GM, Weathers KC, Arthur MA, Schultz JC. Nitrogen cycling in a northern hardwood forest: Do species matter? *Biogeochemistry*. 2004;67(3):289-308. doi:10.1023/B:BIOG.0000015786.65466.f5

35.

Lovett GM, Goodale CL. A New Conceptual Model of Nitrogen Saturation Based on Experimental Nitrogen Addition to an Oak Forest. *Ecosystems*. 2011;14(4):615-631. doi:10.1007/s10021-011-9432-z

36.

Jobbágy EG, Jackson RB. Patterns and mechanisms of soil acidification in the conversion of grasslands to forests. *Biogeochemistry*. 2003;64(2):205-229. doi:10.1023/A:1024985629259

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;99(2-3):67-75. doi:10.1016/j.agsy.2008.10.006

38.

Kirchner JW, Lydersen Espen. Base Cation Depletion and Potential Long-Term Acidification

of Norwegian Catchments. *Environmental Science & Technology*. 1995;29(8):1953-1960. doi:10.1021/es00008a012

39.

KIRK GJD, BELLAMY PH, LARK RM. Changes in soil pH across England and Wales in response to decreased acid deposition. *Global Change Biology*. Published online 19 November 2009:no-no. doi:10.1111/j.1365-2486.2009.02135.x

40.

LAGANIÈRE J, ANGERS DA, PARÉ D. Carbon accumulation in agricultural soils after afforestation: a meta-analysis. *Global Change Biology*. 2010;16(1):439-453. doi:10.1111/j.1365-2486.2009.01930.x

41.

KIRSCHBAUM M. The temperature dependence of organic-matter decomposition—still a topic of debate. *Soil Biology and Biochemistry*. 2006;38(9):2510-2518. doi:10.1016/j.soilbio.2006.01.030

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. doi:10.1023/A:1006238902976

43.

Wright RF, Larssen T, Camarero L, et al. Recovery of Acidified European Surface Waters. *Environmental Science & Technology*. 2005;39(3):64A-72A. doi:10.1021/es0531778

44.

KIRK GJD, BELLAMY PH, LARK RM. Changes in soil pH across England and Wales in response to decreased acid deposition. *Global Change Biology*. Published online 19 November 2009:no-no. doi:10.1111/j.1365-2486.2009.02135.x

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;39(14):5234-5240. doi:10.1021/es048169q

46.

White RE, MyiLibrary. *Principles and Practice of Soil Science: The Soil as a Natural Resource*. 4th ed. Blackwell; 2006. <http://www.myilibrary.com?id=211680>

47.

Schjønning P, Elmholt S, Christensen BT, ebrary, Inc. *Managing Soil Quality: Challenges in Modern Agriculture*. CABI Pub; 2004. <http://site.ebrary.com/lib/unnc/Doc?id=10173496>

48.

Schaetzl RJ, Anderson S. *Soils: Genesis and Geomorphology*. Cambridge University Press; 2005.

49.

Yong RN, Nakano M, Pusch R. *Environmental Soil Properties and Behaviour*. CRC Press; 2012.

50.

Nathanail CP, Bardos P. *Reclamation of Contaminated Land*. Wiley; 2004.

51.

National Research Council (U.S.), ebrary, Inc. *Sustainable Agriculture and the Environment in the Humid Tropics*. National Academy Press; 1993. <http://site.ebrary.com/lib/unnc/Doc?id=10072116>

52.

ebrary, Inc. Soil and Water Quality: An Agenda for Agriculture. National Academy Press; 1993. <http://site.ebrary.com/lib/unnc/Doc?id=10054995>

53.

Jenny H. Factors of Soil Formation: A System of Quantitative Pedology. Vol McGraw-Hill publications in the agricultural sciences. McGraw-Hill; 1941.

54.

Haygarth PM, Jarvis SC, ebrary, Inc. Agriculture, Hydrology, and Water Quality. CABI; 2002. <http://site.ebrary.com/lib/unnc/Doc?id=10060479>

55.

Gardiner DT, Miller RW. Soils in Our Environment. 10th ed. Pearson/Prentice Hall; 2004.

56.

Wall DH. Soil Ecology and Ecosystem Services. Oxford University Press; 2012.

57.

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

58.

Bardgett RD. The Biology of Soil: A Community and Ecosystem Approach. Oxford University Press; 2005.

59.

Brady NC, Weil RR. The Nature and Properties of Soils. 12th ed. Prentice Hall; 1998.

60.

Ashman MR, Puri G, MyiLibrary. Essential Soil Science: A Clear and Concise Introduction to

Soil Science. Blackwell Science; 2002. <http://www.myilibrary.com?id=211757>

61.

Ågren GI, Andersson F. Terrestrial Ecosystem Ecology: Principles and Applications. Cambridge University Press; 2012.