

# A J Moffat

Written work @ 30 October 2017

	Page
<b>(a) Peer reviewed journal publications</b>	<b>1</b>
<b>(b) Books, book chapters and published conference proceedings</b>	<b>7</b>
<b>(c) Government publications</b>	<b>12</b>
<b>(d) Out-reach, sector and web-based publications</b>	<b>15</b>
<b>(e) Contract reports and reports to industry</b>	<b>20</b>

## **(a) Peer reviewed journal publications**

Lakeman Fraser, P., Gosling, L., Moffat, A.J., West, S.E., Fradera, R., Davies, L., Ayamba, M.A. and van der Wal, R. 2016. To have your citizen science cake and eat it? Delivering outreach and environmental monitoring through Open Air Laboratories (OPAL). *BMC Ecology Supplement* 16 (Suppl 1): S16, 57-70.  
<http://dx.doi.org/10.1186/s12898-016-0065-0>

Moffat, A.J. 2016. Communicating the benefits of urban trees: A critical review. *Arboricultural Journal* 38(2), 64-82.

Collison, J., Wilson, C.A., Moffat, A.J. and Gallacher, J. 2015. Soil disturbance resulting from stump harvesting. *Scottish Forestry* 69 (2), 20-27.

Rajapaksha, N.S.S., Butt, K.R., Vanguelova, E.I. and Moffat, A.J. 2014. Short rotation forestry – Earthworm interactions: A field based mesocosm experiment. *Applied Soil Ecology* 76, 52-59.

Moffat, A.J. and Pearce, H.G. 2013. Contrasting approaches to forest fire risk in New Zealand and Great Britain. *Scottish Forestry* 67 (4), 10-17.

Rajapaksha, N.S.S., Butt, K.R., Vanguelova, E. and Moffat, A.J. 2013. Earthworm selection of Short Rotation Forestry leaf litter assessed through preference testing and direct observation. *Soil Biology and Biochemistry* 67, 12-19.

Rajapaksha, N.S.S., Butt, K.R., Vanguelova, E. and Moffat, A.J. 2013. Effects of Short Rotation Forestry on earthworm community development in the UK. *Forest Ecology and Management* 309, 96-104.

Vanguelova, E.I., Nisbet, T.R., Moffat, A.J., Broadmeadow, S., Sanders, T.G.M. and Morison, J.I.L. 2013. A new evaluation of carbon stocks in British forest soils. *Soil Use and Management* 29, 169-181.

Nijnik, M., Pajot, G., Moffat, A.J. and Slee, B. 2013. An economic analysis of the establishment of forest plantations in the United Kingdom, particularly Scotland, to mitigate climatic change. *Forest Policy and Economics* 26, 34-42.

- Finlay, S., Moffat, A.J., Gazzard, R. and Murray, V. 2012. Wildfires and Health Impacts. *PLoS Currents: Disasters* doi: 10.1371/4f959951cce2c.
- Shibu, M.E., Matthews, R.B., Bakam, I., Moffat, A.J. and Baggaley, N. 2012. Estimating greenhouse gas abatement potential of biomass crops in Scotland under various management options. *Biomass and Bioenergy* 47, 211-227.
- Burgess, P.J., Moffat, A.J. and Matthews, R.B. 2011. Assessing climate change causes, risks and opportunities in forestry. *Outlook on Agriculture (Special issue)* Teasing out the impacts of climate change on agricultural development, 263-268.
- Pediaditi, K., Doick, K.J. and Moffat, A.J. 2010. Monitoring and evaluation practice for brownfield regeneration to greenspace initiatives. A meta-evaluation of assessment and monitoring tools. *Landscape and Urban Planning* 97, 22-36.
- Rodriguez, O., Sellers, G., Sinnett, D., Moffat, A.J. and Hutchings, T.R. 2010. Use of remediated soil materials for sustainable plant growth. *Land Contamination & Reclamation* 18, 25-39.
- Vanguelova, E.I., Benham, S., Pitman, R., Moffat, A.J., Broadmeadow, M., Nisbet, T., Durrant, D., Barsoum, N., Wilkinson, M., Bochereau, F., Hutchings, T., Broadmeadow, S., Crow, P., Taylor, P. and Durrant-Houston, T. 2010. Chemical fluxes in time through forest ecosystems in the UK – soil response to pollution recovery. *Environmental Pollution* 158, 1857-1869.
- Hutchings, T.R., Sinnett, D., Doick, K., Pediaditi, K. and Moffat, A.J. 2009. Integrated Remediation, Reclamation and Greenspace creation on Brownfield Land. *CL:AIRE sub:im Bulletin* 11, London.
- Doick, K.J., Pediaditi, K., Moffat, A.J. and Hutchings, T.R. 2009. Defining the sustainability objectives of brownfield regeneration to greenspace. *International Journal of Environmental Policy and Decision Making* 10, 282-302.
- de Munck, C., Hutchings, T.R. and Moffat, A.J. 2008. Impacts of climate change and establishing a vegetation cover on water erosion of contaminated spoils for two contrasting UK regional climates – a case study approach. *Integrated Environmental Assessment and Management* 4, 443-455.
- Moffat, A.J., Hutchings, T.R., Tubby, I., Butt, K.R. and Lowe, C.N. 2008. Experimental woodland establishment on brick clays in southern England. *Land Contamination & Reclamation* 16 (3), 181-190.
- Moffat, A.J., Foot, K., Kennedy, F.M., Dobson, M.C. and Morgan, G. 2008. Experimental tree planting on containment UK landfill sites: results of ten years monitoring. *Arboriculture & Urban Forestry* 34(3), 163-172.
- van Herwijnen, R., Sellers, G., Sinnett, D., Moffat, A.J., Hutchings, T.R., Al-Tabbaa, A. and Ouki, S. 2008. The use of compost in the regeneration of brownfield land. *CL:aire sub:im bulletin* SUB 10, London, 4pp.
- Kilbride, C., Poole, J., Hutchings, T.R., Rodriguez-Walters, O., Sinnett, D., Brunt, A. and Moffat, A.J. 2008. Field portable X-ray Fluorescence (FPXRF): A rapid and low cost alternative for measuring metals and metalloids in soils. *CL:aire sub:im bulletin* SUB 7, London, 4pp.

- Moffat, A.J., Davies, S.A. and Finér, L. 2008. Reporting the results of forest monitoring – an evaluation of the European forest monitoring programme. *Forestry* 81, 75-90.
- van Herwijnen, R. Hutchings, T.R., Al-Tabbaa, A., Moffat, A.J., Johns, M.L. and Ouki, S.K. 2007. Remediation of metal contaminated soil with mineral-amended composts. *Environmental Pollution* 150, 347-354.
- van Herwijnen, R., Al-Tabbaa, A., Hutchings, T.R., Moffat, A.J., Ouki, S.K. and Johns, M.L. 2007. The impact of waste compost-based soil amendments on the leaching behavior of a heavy metal contaminated soil. *Environmental Engineering Science* 24, 897-904.
- Mooney, S.J., Foot, K., Hutchings, T.R. and Moffat, A.J. 2007. Micromorphological investigations into root penetration in a landfill mineral cap, Hertfordshire, UK. *Waste Management* 27, 1225-1232.
- Vanguelova, E.I., Nortcliff, S., Moffat, A.J. and Kennedy, F. 2007. Short-term effects of manipulated increase in acid deposition on soil, soil solution chemistry and fine roots in Scots pine (*Pinus sylvestris*) stand on a podzol. *Plant and Soil* 294, 41-54.
- Harbottle, M.J., Mantle, M.D., Johns, M.L., van Herwijnen, R., Al-Tabbaa, A., Hutchings, T., Moffat, A. and Ouki, S. K. 2007. Magnetic resonance imaging of the effect of zeolite on lithium uptake in poplar. *Environmental Science and Technology* 41, 3444-3448.
- Al-Tabbaa, A., Smith, S.E., Duru, U.E., Iyengar, S.R., De Munck, C., Moffat, A.J., Hutchings, T.R., Dixon, T., Doak, J., Garvin, S.L., Ridal, J., Raco, M. and Henderson, S. 2007. Climate Change, Pollutant Linkage and Brownfield Regeneration. *CL:AIRE sub:im bulletin* SUB 3, London.
- Hutchings, T.R., Sinnett, D., Peace, A. and Moffat, A.J. 2006. The effect of woodland growth on a containment landfill site in Hertfordshire, UK. *Urban Forestry and Urban Greening* 5, 169-176.
- Kirwan, N., Oliver, M.A., Moffat, A.J. and Morgan, G.W. 2005. Sampling the soil in long term forest plots: the implications of spatial variation. *Environmental Monitoring and Assessment* 111, 149-172.
- Crow, P.G. and Moffat, A.J. 2005. The management of the archaeological resource in UK wooded landscapes: an environmental perspective. *Conservation and Management of archaeological sites* 7, 103-116.
- Pitts, A., Benham, S., Straw, N.A. and Moffat, A.J. 2005. Evaluation of moth-trap data from Alice Holt Forest, Hampshire 1966-2001: possible effects of changing climate on Macrolepidoptera. *Entomologist's Gazette* 56, 237-247.
- Vanguelova, E.I., Nortcliff, S., Moffat, A.J. and Kennedy, F. 2005. Morphology, biomass and nutrient status of fine roots of Scots pine (*Pinus sylvestris*) as influenced by seasonal fluctuations in soil moisture and soil solution chemistry. *Plant and Soil* 270, 233-247.
- Lynch, J.M. and Moffat, A.J. 2005. Bioremediation – prospects for the future application of innovative applied biological research. *Annals of Applied Biology* 146, 217-221.

- Butt, K.R., Lowe, C.N., Frederickson, J. and Moffat, A.J. 2004. The development of sustainable earthworm populations at Calvert Landfill Site UK. *Land Degradation and Development* 15, 27-36.
- Moffat, A.J. 2003. Indicators of soil quality for UK forestry. *Forestry* 76 (5), 547-568.
- Wood, M.J., Carling, P.A. and Moffat, A.J. 2003. Reduced ground disturbance during mechanized forest harvesting on sensitive forest soils in the UK. *Forestry* 76 (3), 345-361.
- Wood, M.J., Moffat, A.J. and Carling, P.A. 2003. Improving the design of slash roads used to reduce soil disturbance during mechanised harvesting of coniferous forest plantations in the UK. *International Journal of Forest Engineering* 14, 11-23.
- Moffat, A.J. 2002. The state of British forests at the beginning of the 21st century. *International Forestry Review* 4, 171-183.
- Moffat, A.J., Kvaalen, H., Solberg, S. and Clarke, N. 2002. Temporal trends in throughfall and soil water chemistry at three Norwegian forests, 1986–1997. *Forest Ecology and Management* 168, 15–28.
- Hutchings, T.R., Moffat, A.J. and French, C.J. 2002. Soil compaction under timber harvesting machinery: a preliminary report on the role of brash mats in its prevention. *Soil Use and Management* 18, 34-38.
- Moffat, A.J. 2001. Increasing woodland in urban areas in the UK – meeting ecological and environmental standards. *International Forestry Review* 3, 198-205.
- Hutchings, T.R., Moffat, A.J. and Kemp, R.A. 2001. Effects of rooting and tree growth of selected woodland species on cap integrity in a clay capped landfill site. *Waste Management and Research* 19, 193-200.
- Kennedy, F., Rowell, D., Moffat, A.J. and Singh, B. 2001. An analysis of the structure of the simple mass balance equation: implications for testing national critical load maps. *Water, Air and Soil Pollution: Focus* 1, 281-298.
- Moffat, A.J., Armstrong, A.T. and Ockleston, J. 2001. The optimization of sewage sludge and effluent disposal on energy crops of short rotation hybrid poplar. *Biomass & Bioenergy* 20, 161-169.
- Moffat, A.J. 2000. Effects of inoculation with Frankia on the growth and nutrition of alder species and interplanted Japanese larch on restored mineral workings. *Forestry* 73, 215-223.
- Moffat, A.J. and Bending, N.A.D. 2000. Replacement of soil and soil-forming materials by loose tipping in reclamation to woodland. *Soil Use and Management* 16, 75-81.
- Bending, N.A.D. and Moffat, A.J. 1999. Tree performance on minespoils in the South Wales coalfield. *Journal of Applied Ecology* 36, 784-797.
- Wilson, B.R., Moffat, A.J. and Nortcliff, S. 1997. The nature of three ancient woodland soils in southern England. *Journal of Biogeography* 24, 633-646.

- Moffat, A.J. and Boswell, R.C. 1997. The effectiveness of cultivation using the winged tine on restored sand and gravel workings. *Soil and Tillage Research* 40, 111-124.
- Dobson, M.C. and Moffat, A.J. 1995. A re-evaluation of objections to tree planting on containment landfills. *Waste Management and Research* 13, 579-600.
- Moffat, A.J. 1994. Nursery sterilization and inoculation regimes for alder production. *Forestry* 67, 313-327.
- Shaw, P.J.A. and Moffat, A.J. 1993. Establishment of trees on mixtures of pulverized fuel ash and gypsum. II. Nutrition and trace elements. *Land Degradation and Rehabilitation* 4, 123-129.
- Moffat, A.J. and Shaw, P.J.A. 1993. Establishment of trees on mixtures of pulverized fuel ash and gypsum. I. Tree performance. *Land Degradation and Rehabilitation* 4, 87-97.
- Moffat, A.J. and Williamson, D.R. 1991. Review of fertiliser and herbicide use in UK tree crop systems. *Journal of the Science of Food and Agriculture* 57, 1-18.
- Moffat, A.J., Matthews, R.W. and Hall, J.E. 1991. The effects of sewage sludge on growth, foliar and soil chemistry in pole stage Corsican pine at Ringwood Forest, Dorset, UK. *Canadian Journal of Forest Research* 21, 902-909.
- Wheeler, C.T., Hollingsworth, M., Hooker, J.E., McNeill, J.D., Mason, W.L., Moffat, A.J. and Sheppard, L.J. 1991. The effect of inoculation with either cultured Frankia or crushed nodules on nodulation and growth of *Alnus rubra* and *Alnus glutinosa* seedlings in forest nurseries. *Forest Ecology and Management* 43, 153-166.
- Moffat, A.J. 1991. Forestry and soil protection in the UK. *Soil Use and Management* 7, 145-151.
- Moffat, A.J. 1991. The importance of pedology in modern forestry science. *Forestry* 64, 217-238.
- Moffat, A.J. and Roberts, C.J. 1991. Grass mixtures for afforested opencast coal spoil in South Wales. *Land Degradation and Rehabilitation* 2, 127-134.
- Moffat, A.J. and Houston, T.J. 1991. Tree establishment and growth at Pitsea landfill site, Essex, UK. *Waste Management and Research* 9, 35-46.
- Williamson, D.R. and Moffat, A.J. 1990. Tree crop production systems: a change in land use with the potential to reduce inputs. *Journal of the Science of Food and Agriculture* 53, 113-115.
- Moffat, A.J. and Boswell, R.C. 1990. The effect of tree species and species mixtures on soil properties at Gisburn Forest, Yorkshire. *Soil Use and Management* 6, 46-51.
- Moffat, A.J., Johnston, M. and Wright, J.S. 1990. An improved probe for sampling soil atmospheres. *Plant and Soil* 121, 145-147.
- Moffat, A.J. 1989. Forestry and soil erosion in Britain - a reply. *Soil Use and Management* 5, 199-200.

- Moffat, A.J. and Roberts, C.J. 1989. The use of large scale ridge and furrow landforms in forestry reclamation of mineral workings. *Forestry* 62, 233-248.
- Moffat, A.J. and Bird, D. 1989. The potential for using sewage sludge in forestry in England and Wales. *Forestry* 62, 1-17.
- Moffat, A.J. 1988. The distribution of 'Celtic Fields' on the East Hampshire chalklands. *Proceedings of the Hampshire Field Club and Archaeological Society* 44, 11-24.
- Moffat, A.J. 1988. Forestry and soil erosion in Britain - a review. *Soil Use and Management* 4, 41-44.
- Moffat, A.J. and Jarvis, M.G. 1988. The significance of gley features in soils derived from grey parent materials. *Journal of Soil Science* 39, 177-189.
- Bateman, R.M. and Moffat, A.J. 1987. Petrography of the Woolwich and Reading formation (Late Palaeocene) of the Chiltern Hills, Southern England. *Tertiary Research* 8(3), 75-103.
- Moffat, A.J. 1986. Quartz signatures in Plio-Pleistocene gravels in the northern part of the London Basin. In: Bridgland, D.R. (ed.) *Clast Lithological Analysis. Quaternary Research Association Technical Guide* 3, 117-128.
- Moffat, A.J. and Catt, J.A. 1986. A re-examination of the evidence for a Pleistocene marine transgression on the Chiltern Hills. III. Deposits. *Earth Surface Processes and Landforms* 11, 233-247.
- Moffat, A.J. and Catt, J.A. 1986. A re-examination of the evidence for a Pleistocene marine transgression on the Chiltern Hills. II. Drainage patterns. *Earth Surface Processes and Landforms* 11, 169-180.
- Moffat, A.J., Catt, J.A., Webster, R. and Brown, E.H. 1986. A re-examination of the evidence for a Pleistocene marine transgression on the Chiltern Hills. I. Structures and Surfaces. *Earth Surface Processes and Landforms* 11, 95-106.
- Moffat, A.J. and Jarvis, M.G. 1985. Soils of the Tillingbourne Valley, Wotton, Surrey. *Proceedings and Transactions of the Croydon Natural History and Scientific Society* 17(8), 177-181.
- Moffat, A.J. 1985. William Cobbett: politician and soil scientist. *Geographical Journal* 151, 351-355.
- Moffat, A.J. and Bateman, R.M. 1983. The mineralogy of Palaeogene sediments in southeast England. *Proceedings of the Geologists' Association* 94, 271-274.
- Moffat, A.J. and Catt, J.A. 1983. A new excavation in Plio-Pleistocene deposits at Little Heath. *Transactions of the Hertfordshire Natural History Society* 28(6), 5-10.
- Moffat, A.J. and Catt, J.A. 1982. The nature of the Pebbly Clay Drift at Epping Green. *Transactions of the Hertfordshire Natural History Society* 28(5), 16-24.
- Catt, J.A. and Moffat, A.J. 1980. An occurrence of Hertfordshire Puddingstone in Reading Beds at St. Albans. *Transactions of the Hertfordshire Natural History Society* 28(3), 12-16.

## **(b) Books, book chapters and published conference proceedings (excluding Government publications)**

Moffat, A.J., Doick, K.J. and Handley, P. 2017. Petersfield's trees - their importance and value. Results of the i-Tree Eco survey. Report to East Hampshire District Council, South Downs National Park Authority and Petersfield Town Council. The Petersfield Society, Petersfield. <http://www.petersfieldsociety.org.uk/itree.pdf>

Moffat, A.J. 2017. 1.2 European countries. 1.2.27 United Kingdom. In: San-Miguel-Ayanz, J., Durrant, T., Boca, R., Libertà, G., Branco, A., de Rigo, D., Ferrari, D., Maianti, P., Artés Vivancos, T., Schulte, E. and Loffler, P. Forest Fires in Europe, Middle East and North Africa 2016. EUR 28707 EN, Publications Office, Luxembourg.  
[http://effis.jrc.ec.europa.eu/media/cms\\_page\\_media/40/Forest\\_fires\\_in\\_Europe\\_Middle\\_east\\_and\\_North\\_Africa\\_2016\\_final\\_pdf\\_JZU7HeL.pdf](http://effis.jrc.ec.europa.eu/media/cms_page_media/40/Forest_fires_in_Europe_Middle_east_and_North_Africa_2016_final_pdf_JZU7HeL.pdf)

San Miguel, J., Chuvieco, E., Handmer, J., Moffat, A., Montiel-Molina, C., Sandahl, L. and Viegas, D. 2017. Climatological risk: wildfires. In: Poljanšek, K., Marín Ferrer, M., De Groot, T., Clark, I. (Eds.). Science for disaster risk management 2017: knowing better and losing less. EUR 28034 EN, Publications Office of the European Union, Luxembourg, Chapter 3.10, 294-305.  
[http://drmkc.jrc.ec.europa.eu/portals/0/Knowledge/ScienceforDRM/Science%20for%20DRM%202017\\_version%2017%20May%202017.pdf](http://drmkc.jrc.ec.europa.eu/portals/0/Knowledge/ScienceforDRM/Science%20for%20DRM%202017_version%2017%20May%202017.pdf)

Bastrup-Birk, A., Reker, J., Zal, N., Romao, C., Cugny-Seguin, M., Moffat, A.J. *et al.* 2016. *European forest ecosystems - State and trends*. EEA Report No. 5/2016, Publications Office of the European Union, Luxembourg.  
[http://www.eea.europa.eu/publications/european-forest-ecosystems/at\\_download/file](http://www.eea.europa.eu/publications/european-forest-ecosystems/at_download/file)

Moffat, A.J. 2015. Green infrastructure and regeneration of brownfield land. Chapter 22. In: D. Sinnett, N. Smith and S. Burgess (eds). *Handbook on Green Infrastructure: Planning, design and implementation*, Edward Elgar Publishing Ltd, Cheltenham, pp. 395-413.

Moffat, A.J., Sinnett, D., Burgess, S. and Smith, N. 2015. The future of green infrastructure; Chapter 24. In: D. Sinnett, N. Smith and S. Burgess (eds). *Handbook on Green Infrastructure: Planning, design and implementation*, Edward Elgar Publishing Ltd, Cheltenham, pp. 445-464.

San-Miguel Ayanz, J., Domínguez-Torres, G., Schuck, A., Parviainen, J., Moffat, A.J., Krumm, F. and Inhaizer, H. 2015. Criterion 5: Maintenance and appropriate enhancement of protective functions in forest management (notably soil and water). In: Forest Europe, UNECE and FAO *State of Europe's Forests 2015*. MCPFE, Madrid, pp. 167-173.

Asikainen, A., Björheden, R., Moffat, A.J. and Spinelli, R. 2014. From biomass to feedstock. In: Pelkonen, P., Mustonen, M., Asikainen, A., Egnell, G., Kant, P., Leduc, S. and Pettenella, D. (eds). *Forest bioenergy for Europe*. European Forest Institute, Joensuu, Finland, pp. 59-67.

Ferretti, M., Fischer, R. and Moffat, A.J. 2013. Terrestrial methods in forest monitoring: towards the next generation? In: Ferretti, M. and Fischer, R. (eds). *Forest Monitoring. Scientific methods for the terrestrial monitoring of temperate and boreal forests*. Elsevier, Amsterdam, pp. 483-496.

Moffat, A.J. and Fischer, R. 2013. Reporting forest monitoring. In: Ferretti, M. and Fischer, R. (eds). *Forest Monitoring. Scientific methods for the terrestrial monitoring of temperate and boreal forests*. Elsevier, Amsterdam, pp. 469-480.

Moffat, A.J. and Quine, C.P. 2011. The ecosystem services framework: a new opportunity for UK forestry? In: *Landscape Ecology and Ecosystem Services, Proceedings of the 18th Annual Conference of the International Association of Landscape Ecologists (UK)*, University of Wolverhampton, 6-8 September 2011, C. Young, L. Besenyei, I. Hooper and K. Moreton-Jones (eds), ialeUK, pp. 55-62.

Vanguelova, E., Nisbet, T. and Moffat, A. 2009. Evaluation of carbon stocks in UK forest soils. In *6th International Symposium on Ecosystem Behaviour BIOGEOMON 2009*, L. Ukonmaanaho, T.M. Nieminen and M. Starr (eds.), Working Papers of the Finnish Forest Research Institute 128, pp. 320.  
[http://www.webmeets.com/files/papers/EAERE/2009/473/ClimatePaperEAEREblind\\_revisedMN.pdf](http://www.webmeets.com/files/papers/EAERE/2009/473/ClimatePaperEAEREblind_revisedMN.pdf)

Nijnik, M., Pajot, G., Moffat, A.J. and Slee, B. 2009. Exploring opportunities of British forests to mitigate climate change. In *Proceedings of the European Association of Environmental and Resource Economists, 17th Annual Conference, 24-27 June 2009*, Amsterdam.

Smith, S.E., Duru, U.E., Al-Tabbaa, A., De Munck, C., Moffat, A.J., Hutchings, T., Ridal, J., Garvin, S., Raco, M., Doak, J. and Dixon, T. 2007. Impact of and response to climate change in UK brownfield remediation. In: *International Conference on Climate Change, 29-31 May 2007*, Hong Kong.  
<http://www.hkie.org.hk/iccc2007/docs/PDF/Oral%20Papers/S05.PDF>

van Herwijnen, R., Ouki, S.K., Gadepalle, V.P., Hutchings, T.R., Al-Tabbaa, A., Moffat, A.J. and Johns, M.L. 2007. Mineral enriched composts for the remediation of heavy metal contaminated sites. In: *Proceedings of the 22nd Annual International Conference on soils, Sediments and Water*. UMASS, p.95.

Ouki, S., van Herwijnen, R., Harbottle, M., Hutchings, T., Al-Tabbaa, A., Johns, M. and Moffat, A. 2007. Novel special-purpose composts for sustainable remediation. In: *Sustainable Brownfield Regeneration. Liveable places from problem spaces*. Eds T. Dixon, M. Raco, P. Catney and D.N. Lerner). Blackwells, Oxford, pp. 177-202.

Moffat, A.J. and Hutchings, T.R. 2007. Greening brownfield land. In: *Sustainable Brownfield Regeneration. Liveable places from problem spaces*. Eds T. Dixon, M. Raco, P. Catney and D.N. Lerner). Blackwells, Oxford, pp. 143-176.

Vanguelova, E., Moffat, A. and Lynch, J. 2006. Impact of forestry on soil quality in the UK. In: Milà i Canals, L., Basson, L., Clift, R., Müller-Wenk, R., Bauer, C., Hansen, Y. and Brandão, M. (eds) *Expert Workshop on Definition of Best Indicators for Biodiversity and Soil Quality for Life Cycle Assessment (LCA)*. Proceedings and Conclusions Guildford, 12-13 June 2006, 24-27.

Sellers, G., Hutchings, T.R. and Moffat, A.J. 2006. Learning from experience: creating sustainable urban greenspaces from brownfield sites. In: *Brownfields III. Prevention, assessment, rehabilitation and development of brownfield sites* (eds C.A. Brebbia and U. Mander), WIT Press, Southampton, 163-172.



Doick, K., Sellers, G., Hutchings, T.R. and Moffat, A.J. 2006. Brownfield sites turned green: realising sustainability in urban revival. In: *Brownfields III. Prevention, assessment, rehabilitation and development of brownfield sites* (eds C.A. Brebbia and U. Mander), WIT Press, Southampton, 131-140.

Villella, J., Sellers, G., Moffat, A.J. and Hutchings, T.R. 2006. From contaminated site to premier urban greenspace: investigating the success of Thames Barrier Park, London. In: *Brownfields III. Prevention, assessment, rehabilitation and development of brownfield sites* (eds C.A. Brebbia and U. Mander), WIT Press, Southampton, 153-162.

van Herwijnen, R., Gadepalle, V.P., Hutchings, T.R., Al-Tabbaa, A., Moffat, A.J., Johns, M.L. and Ouki, S.K. 2006. How to remediate heavy metals contaminated sites with amended composts. *Proceedings of the SUBR:IM Conference 'Overcoming the barriers to brownfield regeneration'*, Imperial College, March 29th 2006, CL:AIRE, London.

Moffat, A.J. and Hutchings, T.R. 2005. Greening of Brownfield Land. *Proceedings of the SUBR:IM – Sustainable Urban Brownfield Regeneration: Integrated Management 1st Public Conference* 1st March 2005, Natural History Museum, London. CL:AIRE, London.

Moffat, A.J. 2004. Silviculture: reclamation of mining lands. In: Burley, J., Evans, J. and Youngqvist, J. (eds), *Encyclopedia of Forest Sciences*. Academic Press, London, 1078-1085.

Vanguelova, E., Nortcliff, S., Kennedy, F.M., and Moffat, A.J. 2002. The effects of Al on Scots pine (*Pinus sylvestris*) root development and nutrient uptake. 17th WCSS Abstracts, Vol. II, Symposium No. 14, pp. 584. Paper no. 2125 in the *Proceedings of the 17th World Congress of Soil Science*, 14-21 August 2002, Bangkok, Thailand.

Vanguelova, E., Nortcliff, S., Kennedy, F.M., and Moffat, A.J. 2001. Soil acidification and Scots pine (*Pinus sylvestris*) root response. *Proceedings of the 6th symposium of the International Society of Root Research*, November 11-15, Nagoya, Japan. Root Research Vol. 10, Extra issue N: 1, pp. 172-173.

Moffat, A.J. 2001. Increasing woodland in urban areas in the UK – meeting ecological and environmental standards. In: *Forests in a Changing Landscape. Proceedings of the 16th Commonwealth Forestry Conference*, Fremantle, WA, 18-25th April 2001, 195-204. Promaco Conventions Pty Ltd, Canning Bridge, WA.

McRae, S.G., Bending, N.A.D. and Moffat, A.J. 2001. Land reclamation in the UK using spoils and wastes from mines and quarries as soil-forming materials. In: *Proceedings of the 25th Annual Canadian Land Reclamation Association and the 4th Annual International Affiliation of Land Reclamationists Meetings*, September 17-20, 2000, Edmonton, Alberta, CD.

Nortcliff, S., Bardos, P., French, C., Lewis, A. and Moffat, A.J. 2000. The potential for the remediation of contaminated land using biomass production and organic waste recycling. In: *Contaminated Soil 2000. Proc 7th Intern FZK/TNO Conf on Contaminated Soil* 18-22 September 2000, Leipzig, Germany, 1097-1098.

Bending, N.A.D. and Moffat, A.J. 2000. Wood residues used to amend coal minespoils for forest reclamation in Wales. In: Henry, C.L., Harrison, R.B. and

Bastian, R.K. (eds), *The Forest Alternative. Principles and practice of residuals use*, College of Forest Resources, University of Washington, 225-229.

Kennedy, F., Rowell, D. Singh, B. and Moffat, A.J. 1998. The use of soil mineral weathering rates in the calculation of critical loads of sulphur deposition using the Simple Mass Balance equation. *16th World Congress of Soil Science*, Montpellier, France, 20-26 August 1998.

McRae, S.G., Bending, N.A.D. and Moffat, A.J. 1998. The use of spoils and wastes from mines and quarries in land reclamation in the UK. *16th World Congress of Soil Science*, Montpellier, France, 20-26 August 1998. Summaries Vol. I, p. 395.

Moffat, A.J., Hutchings, T. and Boswell, R.C. 1997. 2.31 United Kingdom. In: *Forest Soil Condition in Europe*, (L. Vanmechelen, R. Groenemans and E. Van Ranst), EC-UN/ECE, Brussels, Geneva, 192-194.

Moffat, A.J. 1997. Soils - guidelines for sustainability. In: Miller, H.G. (ed.), *Plantation forestry: a sustainable resource*. Proceedings of a Discussion Meeting, University of York, 12 April 1996. Institute of Chartered Foresters, Edinburgh, 51-62.

Moffat, A.J. and Hutchings, T.R. 1997. A16 National Report: United Kingdom. In: *Forest Foliar Condition in Europe*, (K. Stefan, A. Fürst & U. Bartels). EC-UN/ECE-FBVA, Brussels, Geneva, Vienna, pp. 124-125.

Malcolm, D.C. and Moffat, A.J. 1996. Forestry, soils and sustainability. In: Taylor, A.J., Gordon, J. E. and Usher, M.B. (eds), *Soils, sustainability and the natural heritage*. HMSO, Edinburgh, 194-209.

Dobson, M.C. and Moffat, A.J. 1996. Restoring landfill sites for woodland establishment and use of research information Note 263. In: *Establishment of woodland on landfill*. Seminar Proceedings. Mersey Forest, 10-17.

Moffat, A.J. and Buckley, G.P. 1995. Soils and restoration ecology. In: Ferris-Kaan, R. (ed.), *The Ecology of Woodland Creation*, J. Wiley, Chichester, 75-90.

Moffat, A.J. and Dutch, J.C. 1992. Environmental effects of using wood from the forest. In: Richards, G.E. (ed.) *Wood energy and the environment*, Harwell Laboratories, Oxford, 125-137.

Bending, N.A.D., Moffat, A.J. and Roberts, C.J. 1991. Site factors affecting tree response on restored opencast ground in the South Wales Coalfield. In: Davies, M.C.R. (ed.) *Land reclamation. An end to dereliction?*, Elsevier, London, 347-356.

Moffat, A.J., Bending, N.A.D. and Roberts, C.J. 1991. The use of sewage sludge as a fertiliser in the afforestation of opencast coal spoils in South Wales. In: Davies, M.C.R. (ed.) *Land reclamation. An end to dereliction?*, Elsevier, London, 347-356.

Taylor, C.M.A. and Moffat, A.J. 1991. The potential for utilising sewage sludge in forestry in Great Britain. In: Hall, J.E. (ed.) *Alternative uses for sewage sludge. Proceedings of an International Conference*, York. Pergamon Press, Oxford, 103-113.

Bayes, C.D., Taylor, C.M.A. and Moffat, A.J. 1991. Sewage sludge utilisation in forestry: the UK research programme. In: Hall, J.E. (ed.) *Alternative uses for sewage*

*sludge. Proceedings of an International Conference*, York. Pergammon Press, Oxford, 115-138.

Moffat, A.J. 1990. Reclamation to forestry. In: Land reclamation. Challenges and opportunities. *Proceedings of the Environmental Study Group Seminar* held at Cartwright Court, University College Cardiff, 30-31 March 1990. Prince of Wales Committee, Cardiff.

Moffat, A.J. 1987. The geological input to the reclamation process in forestry. In: Culshaw, M.G., Bell, F.G., Cripps, J.C., and O'Hara, M. (eds) *Planning and Engineering Geology. Geological Society Engineering Geology Special Publication 4*, 541-548.

Moffat, A.J. and Cope, D.W. 1984. The Hampshire Chalklands. In: Jarvis, M.G. and Findlay, D.C. (eds.) *Soils of the Southampton District*. British Society of Soil Science, 82-116.

### **(c) Government publications**

Moffat, A.J. 2015. Climate change and land regeneration. Forest Research Best Practice Guidance for Land Regeneration BPG No. 21, Farnham, 3 pp.  
[http://www.forestry.gov.uk/pdf/FR\\_Doick\\_BPG21\\_2015.pdf/\\$FILE/FR\\_Doick\\_BPG21\\_2015.pdf](http://www.forestry.gov.uk/pdf/FR_Doick_BPG21_2015.pdf/$FILE/FR_Doick_BPG21_2015.pdf)

Moffat, A.J., Morison, J.I.L., Nicoll, B. and Bain, V. 2012. *Climate Change Risk Assessment for the Forestry Sector*. Defra, London.  
<http://randd.defra.gov.uk/Document.aspx?Document=CCRAfortheForestrySector.pdf>

Moffat, A.J., Nisbet, T.R. and Nicoll, B. 2011. Environmental effects of stump and root harvesting. *Forestry Commission Research Note FCRN009*, Edinburgh.

Quine, C.P., Cahalan, C., Hester, A., Humphrey, J., Kirby, K., Moffat, A.J. and Valatin, G. 2011. Chapter 8: Woodlands. *UK National Ecosystems Assessment Technical Report*. UNEP-WCMC, Cambridge. 53pp.

Jollands, M., Morris, J. and Moffat, A.J. 2011. *Wildfires in Wales*. Final report. Forest Research, Farnham.  
[http://www.forestresearch.gov.uk/pdf/Wildfire\\_in\\_Wales\\_final\\_report.pdf/\\$FILE/Wildfire\\_in\\_Wales\\_final\\_report.pdf](http://www.forestresearch.gov.uk/pdf/Wildfire_in_Wales_final_report.pdf/$FILE/Wildfire_in_Wales_final_report.pdf)

Anon 2008. *Woodland Establishment on Landfill sites: Ten Years of Research*. DCLG, London.  
<http://webarchive.nationalarchives.gov.uk/20120919132719/http://www.communities.gov.uk/documents/planningandbuilding/pdf/825167.pdf>

Vanguelova, E., Barsoum, N., Benham, S., Broadmeadow, M., Moffat, A.J., Nisbet, T.R. and Pitman, R. 2007. Ten years of long-term environmental monitoring in British forests. *Forestry Commission Information Note 88*, Edinburgh.

Moffat, A.J., Jones, W.M. and Mason, W.L. 2006. Managing brash on conifer clearfell sites. *Forestry Commission Practice Note 13*, Forestry Commission, Edinburgh.

Moffat, A.J. 2006. Tree seeding. Forest Research Best Practice Guidance for Land Regeneration BPG No. 10, Farnham, 2 pp.

Moffat, A.J. 2006. Native and non-native trees. Why and how to choose. Forest Research Best Practice Guidance for Land Regeneration BPG No. 8, Farnham, 2 pp.

Moffat, A.J. 2006. Loose tipping. Forest Research Best Practice Guidance for Land Regeneration BPG No. 4, Farnham, 2 pp.

Moffat, A.J. 2006. The use of sewage sludges and composts in forestry. *Forestry Commission Information Note 79*, Forestry Commission, Edinburgh.

Anon 2004. Minerals Planning Policy (Wales). *Minerals Technical Advice Note (Wales)*. 1. Aggregates. C. Soil. Welsh Assembly Government, Cardiff.  
<http://wales.gov.uk/docs/desh/policy/040331aggregatesmtanen.pdf>

Hutchings, T.R., Moffat, A.J. and Stubbs, I. 2001. Woodland restoration of contaminated land. In *Forest Research Annual Report and Accounts 1999-2000*, 30-37. The Stationery Office, Edinburgh.

Department of the Environment, Transport and the Regions 2000. *Effectiveness of Provisions for the Aftercare of Mineral Workings*. DETR, London.

Kennedy, F.M., Hutchings, T.R. and Moffat, A.J. 2000. *Woodland Establishment on Landfill Sites - Site Monitoring*. DCLG, London.

Bending, N.A.D., McRae, S.G. and Moffat, A.J. 1999. *Soil-forming materials: their use in land reclamation*. The Stationery Office, London, 237pp.

Anon 1998. *Forests and soil conservation guidelines*. Forestry Authority, Edinburgh, 24 pp.

Durrant, D.W. and Moffat, A.J. 1998. European programme for the intensive monitoring of forest ecosystems – the Level II network. In *Forest Research Annual report and Accounts 1997-98*. The Stationery Office, Edinburgh, 33-37.

Moffat, A.J. 1997. Soil sustainability. In: *Report on Forest Research, Edinburgh, 1997*, 8-12.

Moffat, A.J. (ed.) 1997. Recycling land for Forestry. Proceedings of the Forestry Commission and British Land Reclamation Society Conference. *Forestry Commission Technical Paper 22*, Edinburgh, 47 pp.

Moffat, A.J. 1997. Site preparation - getting it right. In: Moffat, A.J. (ed.), Recycling land for forestry. *Forestry Commission Technical Paper 22*, Edinburgh, 16-20.

Bending, N.A.D. and Moffat, A.J. 1997. *Tree establishment on landfill sites. Research and updated guidance*. Forestry Commission, Edinburgh, 53 pp.

Nisbet, T., Dutch, J. and Moffat, A. 1997. *Whole-tree Harvesting. A Guide to Good Practice*. Forestry Practice Guide, Forestry Commission, Edinburgh.

Willoughby, I. and Moffat, A.J. 1996. Cultivation of lowland sites for new woodland establishment. *Forestry Commission Research Information Note 288*. Farnham, 8 pp.

Moffat, A.J. 1995. Leaching and run-off risks associated with herbicide applications. In: *The Use of Herbicides in the Forest* (I. Willoughby and J.Dewar). HMSO, London, 27-30.

Dobson, M.C. and Moffat, A.J. 1995. Site capability assessment for woodland creation on landfills. *Forestry Commission Research Information Note 263*, Farnham.

Moffat, A.J. 1994. Using waste materials in the forest - implications of recent legislation. *Forestry Commission Research Information Note 256*, Farnham.

Moffat, A.J. and McNeill, J.D. 1994. *Reclaiming disturbed land for forestry*. Forestry Commission Bulletin 110. HMSO, London, 103 pp.

Dobson, M.C. and Moffat, A.J. 1993. *The potential for woodland establishment on landfill sites*. HMSO, London, 88 pp.

- Moffat, A.J. and Bending, N.A.D. 1992. Physical site evaluation for community woodland establishment. *Forestry Commission Research Information Note 216*, Farnham.
- Wolstenholme, R., Dutch, J., Moffat, A.J., Bayes, C.D. and Taylor, C.M.A. 1992. *A manual of good practice for the use of sewage sludge in forestry*. Forestry Commission Bulletin 107. HMSO, London.
- McNeill, J.D., Hollingsworth, M.K., Mason, W.L., Moffat, A.J., Sheppard, L.J. and Wheeler, C.T. 1990. The inoculation of alder seedlings to improve seedling growth and field performance. *Forestry Commission Arboriculture Research Note 188*, Farnham.
- Innes, J.L., Moffat, A.J. and Lonsdale, D. 1989. Weather conditions during the summer of 1989 and their effect on trees. *Forestry Commission Research Information Note 162*, Farnham.
- Moffat, A.J. 1989. The new site. In: Hibberd, B.G. (ed.) *Urban Forestry Practice*, Forestry Commission Handbook 5, HMSO, London.
- Moffat, A.J., Roberts, C.J. and McNeill, J.D. 1989. The use of nitrogen-fixing plants in forest reclamation. *Forestry Commission Research Information Note 158*, Farnham.
- McNeill, J.D., Hollingsworth, M.K., Mason, W.L., Moffat, A.J., Sheppard, L.J., and Wheeler, C.T. 1989. The inoculation of *Alnus rubra* seedlings to improve seedling growth and forest performance. *Forestry Commission Research Information Note 144*, Farnham.
- Moffat, A.J. 1988. Sewage sludge as a fertiliser in amenity and reclamation plantings. *Forestry Commission Arboricultural Research Note 76/88/SSS*.
- Moffat, A.J. and Roberts, C.J. 1988. The use of large scale ridge and furrow landforms in forest reclamation. *Forestry Commission Research Information Note 137*, Farnham.
- Jarvis, M.G., Allen, R.H., Fordham, S.J., Hazelden, J., Moffat, A.J. and Sturdy, R.G. 1984. *Soils and their use in South East England*. Bulletin of the Soil Survey of Great Britain 15, Harpenden.
- Jarvis, M.G., Allen, R.H., Fordham, S.J., Hazelden, J., Moffat, A.J. and Sturdy, R.G. 1983. *Soils of England and Wales. Sheet 6. Soils of South East England*. Southampton, Ordnance Survey.

#### **(d) Out-reach, sector and web-based publications**

Moffat, A.J., Doick, K.J. and Handley, P. 2017. An i-Tree Eco survey for Petersfield – a story of community engagement. *ARB Magazine* 176, 47-48.

Moffat, A.J. 2017. A modern stocktake of trees in Petersfield. *Petersfield Area Historical Society Bulletin – Spring 2017*, 3-5.

Moffat, A.J. 2016. Forest fire hazard alerts for the forestry sector. *Quarterly Journal of Forestry* 110(3), 179-186.

Fradera, R., Slawson, D., Gosling, L., Lakeman-Fraser, P., Makuch, K., Makuch, Z., Madani, K., Martin, K., Slade, R., Geoghegan, H., Moffat, A.J. and Haklay, M. 2016. Exploring the Nexus through citizen science. [http://www.thenexusnetwork.org/wp-content/uploads/2016/01/Fradera\\_final22Jan2016.pdf](http://www.thenexusnetwork.org/wp-content/uploads/2016/01/Fradera_final22Jan2016.pdf)

Moffat, A.J. and Sinnett, D. 2016. The modern role of land reclamation for housing. *Planning & Building Control Today*. <http://planningandbuildingcontrolday.co.uk/pbc-edition-010/modern-role-land-reclamation-housing-2/21876/>

Moffat, A.J. 2015. Building resilience in Scotland's urban tree populations. *ARB Magazine* 171, 60-63.

Beggs, J., Irvine, K., Mell, I., Stanley, M., Jones, L., Dodd, M., Goddard, M., Moffat, A.J., Cavan, G., Rawlinson, H., Luna, L., Daie, P., van der Esch, S. and Almulla, L. 2015. Finding the sweet spot for ecological, social and economic values of urban greening. <http://aucklandecology.com/2015/09/08/finding-the-sweet-spot-for-ecological-social-and-economic-values-of-urban-greening/>

Moffat, A.J. 2015. Building resilience in Scotland's urban tree populations. <http://www.charteredforesters.org/opinion/item/409-building-resilience-scotland-urban-trees/>

Moffat, A.J. 2015. Building resilience in Scotland's urban tree populations. ClimateXChange, Edinburgh. [http://www.climateexchange.org.uk/index.php/download\\_file/571/342/](http://www.climateexchange.org.uk/index.php/download_file/571/342/)

Moffat, A.J. 2015. Forestry and painting – how the two might shed light on each other. [http://www.rfs.org.uk/media/196121/forestry-and-painting\\_17\\_7\\_15.pdf](http://www.rfs.org.uk/media/196121/forestry-and-painting_17_7_15.pdf)

Moffat, A.J. 2015. Flexible reclamation in a dynamic world. *British Land Reclamation Newsletter*, April 2015, 3-4.

Moffat, A.J., Ellis, C., Moss, A., Nicoll, B., Martin, S. and Beauchamp, K. 2014. Scottish Native Woodland Adaptation – the potential use of a Flexible Adaptation Pathways (FAP) Framework. ClimateXChange, Edinburgh. [http://www.climateexchange.org.uk/index.php/download\\_file/479/220/](http://www.climateexchange.org.uk/index.php/download_file/479/220/)

Moffat, A.J. 2014. Hearts, minds and ecosystems. *Mineral Planning* 153, 8. <http://www.mineralandwasteplanning.co.uk/news/1297308/hearts-minds-ecosystems/>

Moffat, A.J. 2014. Land estates in Scotland: perceptions of climate change and climate policy. Implications for future policy support. ClimateXChange, Edinburgh. [http://www.climateexchange.org.uk/index.php/download\\_file/440/296/](http://www.climateexchange.org.uk/index.php/download_file/440/296/)

- Moffat, A.J. 2014. A new vision for land reclamation in Britain? *British Land Reclamation Newsletter*, March 2014, p.3.
- Moffat, A.J. and Beckmann, K.J. 2014. Adaptation to support field sports (salmon fishing) on Scottish estates. <http://weadapt.org/placemarks/maps/view/1080>
- Moffat, A.J. 2013. Whither reclamation research? *Mineral Planning* 150, p. 11.
- Moffat, A.J. 2013. Why young people start forest fires. *CFA Newsletter* No. 62, 11.
- Moffat, A.J., Lowe, R. and Christie, M. 2013. Adaptation of native woodlands in Scotland. Issues Paper. ClimateXChange, Edinburgh. [http://www.climateexchange.org.uk/index.php/download\\_file/220/220/](http://www.climateexchange.org.uk/index.php/download_file/220/220/)
- Jollands, M., Moffat, A.J. and Morris, J. 2013. 'Spreading like wildfire' – the importance of understanding social drivers of firesetting. *Quarterly Journal of Forestry* 107, 216-222.
- Moffat, A.J., Nicoll, B., Beckmann, K. and Roaf, S. 2013. Demonstrating adaptation – lessons learned so far in the forestry sector. *ClimateXChange Briefing Paper*, Edinburgh. [http://www.climateexchange.org.uk/index.php/download\\_file/185/207/](http://www.climateexchange.org.uk/index.php/download_file/185/207/)
- Moffat, A.J. 2012. A case of 'adapt to survive'. *The Chartered Forester*, Autumn 2012, p.23.
- Gazzard, R., Glynn, M., Held, A. and Moffat, A.J. 2011. Wildfire 2011 – Messages for the forestry sector. *Forestry and Timber News* 48, 18-19.
- Moffat, A.J. 2011. Restoration for a changing climate. *Mineral Planning* 136, 6.
- Vanguelova, E., Moffat, A.J., Morison, J. and Martin, S. 2011. Can we manage the impacts of changing climate on our forest soils?" *Forestry and Timber News* 45, June 2011, 11-12.
- Moffat, A.J., Benham, S., Morison, J.I.L., Pitman, R., Vanguelova, E.I., Wilkinson, M. and Yamulki, S. 2010. The value of forest monitoring in developing forest ecosystem science in Britain. In: *John Derome – Ambassador for forest monitoring in Europe*, L. Ukonmaanaho, K. Derome, P. Rautio and P. Merilä (eds), Working Papers of the Finnish Forest Research Institute 180, p. 28.
- Moffat, A.J., Murgatroyd, I., Hutchings, T.R. and Kennedy, F.M. 2010. Hardwood timber extraction over sensitive soils – a terramechanical study in southern England. *Quarterly Journal of Forestry* 104, 181-189.
- Moffat, A.J. 2009. Start thinking now about climate change impacts on mineral restoration practice. *Mineral Planning* 122, p.9.
- Moffat, A.J. and Sinnett, D. 2009. Landform design pays dividends. *Mineral Planning* 121, 14-15.
- van Herwijnen, R., Ouki, S.K., Al-Tabbaa, A., Moffat, A.J., Johns, M.L. and Hutchings, T.R. 2008. The effect of two different composts on the performance and metal uptake of poplar growing on heavy metal contaminated soil. *SEESOIL* 17, 39-48.



McKay, H. and Moffat, A.J. 2008. "Forests and soil guidelines" - a modern revision of high level UK forest soil policy. *SEESOIL* 17, 57-65.

Moffat, A.J., Sinnett, D. and Hutchings, T.R. 2008. Containment landfill sites – how to restore to beneficial land-use without compromising pollution control systems. *Chemical Hazards and Poisons Report* 13, 37-39.

Moffat, A.J. and Tubby, I. 2008. Restored landfills – a wasted environmental resource? *Waste Planning* 70, 3-5.

Moffat, A.J. and McKay, H.M. 2008. The potential of British forests to recycle organic wastes. *Quarterly Journal of Forestry* 102, 21-27.

Sellers, G., Hutchings, T.R. and Moffat, A.J. 2006. Remediated materials - their potential use in urban greening. *SEESOIL* 16, 47-59.

Moffat, A.J. and Hutchings, T.R. 2006. Brown + trees = green. *Urbio* 11, 22.

Moffat, A.J., Hutchings, T., Kilbride, C., Sellers, G., Sinnett, D. and van Herwijnen, R. 2004. Turning brownfields green. *Green Places* 8, 30-33.

Moffat, A.J. 2004. Captain SUBR:IM gets seasick.  
(<http://www.subrim.org.uk/Articles/discussion/CaptainSUBRIMsseasickam.pdf>)

Moffat, A.J. 2003. Grounds for optimism. *The Chartered Forester* 4/2003, 12-13.

Moffat, A.J. and Laing, J. 2003. An audit of woodland performance on reclaimed land in England. *Arboricultural Journal* 27, 11-25.

Moffat, A.J., Kennedy, F. and Rayner, B. 2003. The answer lies in the soil! *Forestry & British Timber* May 2003, 19-20.

Wood, M., Moffat, A.J. and Carling, P. 2001. Soil protection during mechanised forest harvesting. *Forestry and British Timber* 30 (7), 20-22.

Moffat, A.J. 2001. Environmental change: predicting effects and protecting forests. *Forestry & British Timber* April 2001, 17-19.

Moffat, A.J. 2000. Soil sustainability. *ICF News* 4/2000, 6-7.

Bending, N.A.D., Moffat, A.J. and McRae, S.G. 2000. The use of waste materials in land reclamation. *Waste Planning* 34, 11-13.

Bending, N.A.D., Moffat, A.J. and McRae, S.G. 2000. The use of soil-forming materials in land reclamation. *Mineral Planning* 82, 3-8.

Moffat, A.J. 1999. Soil formation in soil-forming materials for land reclamation – a pedological viewpoint. *SEESOIL* 14, 54-63.

Bardos, P., French, C.J., Moffat, A.J. and Nortcliff, S. 1999. Can biomass kill three birds with one stone? *Land Contamination & Reclamation* 7, 174-176.

Dobson, M.C. and Moffat, A.J. 1999. Examination of tree and root performance on closed landfills in Merseyside. *Arboricultural Journal* 23, 261-272.

- Bardos, P., French, C.J., Moffat, A.J. and Nortcliff, S. 1999. Renewable energy, decontamination and recycling. Can biomass kill three birds with one stone? *Wastes Management* August 1999, 38-39.
- Kennedy, F.M., Moffat, A.J. and Armstrong, A.T. 1999. The effect of Frankia infection on the growth of *Ceanothus thyrsiflorus* in the nursery and after outplanting. *Arboricultural Journal* 23, 113-123.
- Moffat, A.J. 1999. Trees, people and profits – into the next millennium: environmental changes. *Quarterly Journal of Forestry* 93, 211-220.
- Claridge, J.N. and Moffat, A.J. 1998. Trees and landfill: updating your choice. *Forestry and British Timber* 27 (6), 16-21.
- Moffat, A.J. 1998. Woodland - a natural afteruse. *Opencast Mining* 1997, 93-94.
- Moffat, A.J., Bending, N.A.D. and Dobson, M.C. 1998. Barriers against tree roots - an experimental investigation. *Arboriculture Research and Information Note* 141/98/ERB. AAIS, Farnham.
- Moffat, A.J., Bending, N.A.D. and Claridge, J.N. 1997. Landfill: looking good with trees. *Waste Planning* 25, 7-9.
- Armstrong, A.T. and Moffat, A.J. 1996. How compatible are different weed control methods with the application of nitrogenous fertilisers during tree establishment? *Arboricultural Journal* 20, 411-423.
- Moffat, A.J. 1996. William Cobbett: politician and forester. *Cobbett's New Register* 9 (3), 52-59.
- Moffat, A.J. 1996. Biosolids in Forestry. *Terra Ecosystems News* 3, 3.
- Hood, R.C. and Moffat, A.J. 1995. Reclamation of opencast coal spoil using alder. *NERC News* 33, 12-14.
- Moffat, A.J. 1995. William Cobbett: politician and forester. *Quarterly Journal of Forestry* 89, 230-236.
- Moffat, A.J. 1995. Minimum soil depths for the establishment of woodland on disturbed ground. *Arboricultural Journal* 19, 19-27.
- Bending, N.A.D., Holder, R., Davies, T.M. and Moffat, A.J. 1994. Opencast coal mining and reclamation at Maesgwyn. *Mineral Planning* 61, 37-39.
- Moffat, A.J., Armstrong, A.T. and Collyer, E.L. 1994. Site preparation for tree establishment on lowland clay soils. *Quarterly Journal of Forestry* 88, 35-41.
- Dobson, M.C. and Moffat, A.J. 1993. Landfill and trees: are the two compatible? *Environmental Managers Journal* 2 (2), 31-34.
- Dobson, M.C. and Moffat, A.J. 1993. Should trees be planted on capped landfills? *Waste Planning* 7, 30-32.
- Moffat, A.J. 1993. Silvan sludge. *Landscape Design* 219, 25-27.

- Moffat, A.J. 1993. Planting on disturbed land. Technical Update No. 11, *Urban Forests Magazine* 12, 19.
- Dutch, J. and Moffat, A. 1992. Sewage use in forests is good for trees and the environment. *Forestry and British Timber* 21 (11), 15-17.
- Moffat, A.J. and McNeill, J.D. 1992. Alders - valuable components of woodland on reclaimed land. *Mineral Planning* 53, 23-24.
- Moffat, A.J. and Shaw, P.J.A. 1992. Establishment of trees on power station wastes. *Waste Planning* 5, 33-35.
- Moffat, A.J. 1992. Trees please. *Sand and Gravel Association Bulletin* 24, 13.
- Moffat, A J. and Jarvis, M.G. (eds). 1990. Farm forestry - implications for land and landscape. *SEESOIL* 6, 84pp.
- Wilson, B.R., Moffat, A.J. and Nortcliff, S. 1990. The nature and pattern of Ancient Woodland soils in southern England. *Quarterly Journal of Forestry* 84, 173-180.
- Moffat, A.J. and Roberts, C.J. 1989. Experimental tree planting on China clay spoils in Cornwall. *Quarterly Journal of Forestry* 83, 149-156.
- Moffat, A.J. and Houston, T.J. 1988. Soil physical factors affecting tree establishment and growth at Pitsea landfill site, Essex. *SEESOIL* 4, 66-83.
- Moffat, A J. 1988. Reclamation remedies. *Horticulture Week*, 204 (10), 19-21.
- Moffat, A.J. 1988. Land Reclamation and Forestry. *M and Q Environment* 2(1), 18-19.
- Burnham, C.P. and Moffat, A.J. (eds) 1985. Soil acidification in south east England. *SEESOIL* 2, 67pp.

### **(e) Contract reports and reports to industry**

Moffat, A.J. 2015. A wildfire risk management system for UK forestry - moving to operational practice. Report to Forestry Commission, Edinburgh.

Moffat, A.J. 2014. A wildfire risk management system for UK forestry. Report to Forestry Commission, Edinburgh.

Moffat, A.J. 2014. Ground-truthing climate change and adaptation in Scotland. Response at estate scale: opportunities, constraints and implications for policy support. Report to ClimateXChange, Scotland, 14 pp.

Moffat, A.J. and Pearce, H.G. 2013. Harmonising approaches to evaluation of forest fire risk. NZ TRANZFOR Visit: Final Report. Forest Research, Farnham.  
[http://www.kfwf.org.uk/assets/documents/Moffat\\_and\\_Pearce\\_2013\\_Harmonising\\_approaches\\_to\\_evaluation\\_of\\_forest\\_fire\\_risk.pdf](http://www.kfwf.org.uk/assets/documents/Moffat_and_Pearce_2013_Harmonising_approaches_to_evaluation_of_forest_fire_risk.pdf)

MacLeod, A. and Moffat, A.J. 2012. Use of anaerobic digestates in forestry: experimental research. Final Report to WRAP.

Benham, S.E. and Moffat, A.J. 2012. A report on the effects of visitor trampling to the Kingley Vale Yews. Report to Natural England, 25 pp.

Jarvis, D. and Moffat, A.J. 2011. Anaerobic Digestate and Compost Trials in Commercial Forestry. Innovative Uses for Quality Composts and Outputs from Anaerobic Digestion within the Landscape and Regeneration Sectors in Scotland. Final Report to Zero Waste Scotland.

Moffat, A.J. 2010. Executive Summary, Introduction and Conclusions. In: Forest Research. Benefits of green infrastructure. Report to Defra and CLG. Contract No. WC0807. Forest Research, Farnham.  
[http://www.forestry.gov.uk/pdf/urgp\\_benefits\\_of\\_green\\_infrastructure\\_main\\_report.pdf/\\$FILE/urgp\\_benefits\\_of\\_green\\_infrastructure\\_main\\_report.pdf](http://www.forestry.gov.uk/pdf/urgp_benefits_of_green_infrastructure_main_report.pdf/$FILE/urgp_benefits_of_green_infrastructure_main_report.pdf)

Moffat, A.J., Quine, C.P. and McKay, H. 2010. The state of the natural environment. Land use and the future of forestry. In: Land Use Futures: making the most of land in the 21st century. Final Project Report, Government Office for Science, London.  
[http://webarchive.nationalarchives.gov.uk/20140108140803/http://www.bis.gov.uk/assets/foresight/docs/land-use/ilup/er32\\_the\\_state\\_of\\_the\\_natural\\_environment\\_land\\_use\\_and\\_forestry.pdf](http://webarchive.nationalarchives.gov.uk/20140108140803/http://www.bis.gov.uk/assets/foresight/docs/land-use/ilup/er32_the_state_of_the_natural_environment_land_use_and_forestry.pdf)

Moffat, A.J. and Morison, J.I. 2010. UK Climate Change Risk Assessment. Forestry Sector Telephone Interview Records.  
[http://ccra.defra.gov.uk/rp/D03/Forestry\\_CCRA\\_Sector\\_Telephone\\_Interview\\_Record\\_R2\\_final\\_amended.pdf](http://ccra.defra.gov.uk/rp/D03/Forestry_CCRA_Sector_Telephone_Interview_Record_R2_final_amended.pdf).

Moffat, A.J. and Morison, J.I. 2009. UK Climate Change Risk Assessment. Forestry Sector Phase 1 Report.  
[http://ccra.defra.gov.uk/rp/D03/CCRA\\_Forestry\\_Phase1\\_v26-07-2010.pdf](http://ccra.defra.gov.uk/rp/D03/CCRA_Forestry_Phase1_v26-07-2010.pdf).

Foot, K.J. and Moffat, A.J. 2008. Woodland establishment on landfill sites: ten years of research. Final Report to DCLG. Forest Research, Farnham.

Emmett, B.A., Black, H.I.J., Bradley, R.I., Elston, D., Reynolds, B., Creamer, R., Frogbrook, Z.L., Hudson, G., Jordan, C., Lilly, A., Moffat, A., Potts, J. and Vanguelova, E. 2006. National soil monitoring network: review and assessment

study. SNIFFER Final Report LQ09.

[http://nora.nerc.ac.uk/3317/1/Final\\_report\\_to\\_SNIFFER\\_181206\\_v1.pdf](http://nora.nerc.ac.uk/3317/1/Final_report_to_SNIFFER_181206_v1.pdf)

Freer-Smith, P., Evans, S., Morgan, G., Ilvesniemi, H., Finér, L., Moffat, A., Derome, J., Humphrey, J., Laine, J., Michalak, R. and Pawlaczyk, P. 2006. Development and review concerning Forest Focus. Final Report for EU Contract No C2 - 07 03 01/2004/396316/MAR/B3. [http://ec.europa.eu/environment/forests/pdf/final\\_report.pdf](http://ec.europa.eu/environment/forests/pdf/final_report.pdf)

Bradley, I., Moffat, A., Vanguelova, E., Falloon, P. and Harris, J. 2005. Impacts of climate change on soil functions. Defra Final Contract Report SP0538.

[http://randd.defra.gov.uk/Document.aspx?Document=SP0538\\_3603\\_FRP.doc](http://randd.defra.gov.uk/Document.aspx?Document=SP0538_3603_FRP.doc)

Moffat, A.J. 2004. Forest Focus. Ex-ante evaluation for UK National Programme. Report to European Commission. Forest Research, Farnham.

Palmer, R.C. and Moffat, A.J. 2003. NSRI soil survey pilot studies in Kielder and Hazelborough forests to facilitate interpretations for the forester. Cranfield University Study No. SR 9047V, NSRI, Silsoe.

Moffat, A.J. 2003. Report on work carried out by the UK in 2003 in fulfillment of Programme no. 2003.60.UK. Report to European Commission. Forest Research, Farnham.

Martin, P., Brierley, E., Mcdevitt, J., Moffat, A.J., Stephens, W., Tubby, I. and Tyrrel, S. 2002. Biomass production on landfill sites – final report. Report to Shanks.first. Cranfield University, Silsoe.

Moffat, A.J. 2002. Report on work carried out by the UK in 2002 in fulfillment of Programme no. 2002.60.UK. Report to European Commission. Forest Research, Farnham.

Moffat, A.J. and Kennedy, F. 2002. Indicators of soil quality for UK forestry. In: Loveland, P.J. and Thompson, T.R.E. (eds), Identification and development of a set of national indicators for soil quality. Environment Agency Research & Development Project Record P5-053/PR/02, 77-104.

Bardos, P., French, C., Lewis, A., Moffat, A. and Nortcliff, S. 2001. Marginal land restoration scoping study: information review and feasibility study. Ex Site Research Project Report 1. Land Quality Press, Nottingham, 104 pp.

Moffat, A.J. 2000. Report on work carried out by the UK in 2000 in fulfillment of Programme no. 2000.60.UK. Report to European Commission. Forest Research, Farnham.

Kennedy, F., Hutchings, T.R. and Moffat, A.J. 2000. Woodland establishment on landfill sites – site monitoring. Report to DETR. Forest Research, Farnham.

Enviros Aspinwall 1999. Effectiveness of provisions for the aftercare of mineral workings. To DETR, London (Forest Research as subcontractor).

Crow, P. and Moffat, A.J. 1997. Pilot project on the measurement of soil solution in UK Level II network. Report to European Commission (Contract 97.60.UK.002.0). Forestry Commission Research Division, Farnham.

- Moffat, A.J. and Armstrong, A.T. 1996. The optimization of sewage sludge disposal on energy crops of short rotation hybrid poplar. Final report to Thames Water Utilities, Project Ref: R9521. Forestry Commission Research Division, Farnham.
- Hutchings, T.R. and Moffat, A.J. 1996. Foliar sampling and analysis for forest observation plots used in the UK annual inventory. Report to European Commission under EC Regulation 836/94. Forestry Commission Research Division, Farnham.
- Moffat, A.J. 1996. The value of Biogran dried sludge granules in land reclamation. 3rd year results from the Maesgywn experiment. Report to Wessex Water plc. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1995. Monitoring of forested areas treated with sewage sludge. 1995 progress report. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Hutchings, T.R. and Moffat, A.J. 1995. Report on the forest soil condition (Level I: 16 x 16 km grid) in the United Kingdom. Report to European Commission under EC Regulation 926/93. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1994. Monitoring of forested areas treated with sewage sludge - progress report. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1994. Report of research at Maesgwyn 1993-4. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1993. Tree establishment at Calvert landfill site. Progress Report. Report to Buckinghamshire County Council. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1993. Report of research at Maesgwyn 1992-3. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1993. Monitoring of forested areas treated with sewage sludge. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Moffat, A.J. 1993. Site factors affecting tree response on opencast coal spoils in South Wales. British Coal Corporation Contract OE/CON/6259. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Armstrong, A.T. 1992. Report of research at Maesgwyn 1991-2. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Moffat, A.J. 1992. The potential use of sewage sludge in the Forest of Mercia. Report to ETSU, DTi. Forestry Commission Research Division, Farnham.
- Moffat, A.J. and Bending, N.A.D. 1991. The use of sewage sludge as a fertiliser in the afforestation of opencast coal spoil in South Wales – 1991 Progress Report. Report to British Coal Opencast. Forestry Commission Research Division, Farnham.
- Moffat, A.J. 1991. The establishment of trees on soil amended with gypsum. CERL Contract LC5286. Final Report. Forestry Commission Research Division, Farnham.

Moffat, A.J. 1987. The use of sewage sludge in forestry; an assessment of the potential in England and Wales. Water Research Centre Report PRU 1606-M, Medmenham.