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Employment

Professor of Soil and Environmental Science

Professor Teaching & Research
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1 Jan 2022 → 31 Jul 2022

Professor of Soil and Environmental Science

Professor Teaching & Research
School of Natural Sciences
Bangor University
1 Sep 2020 → 31 Dec 2021

Associate Pro Vice-Chancellor (Grant Capture and Impact)

Professor Teaching & Research
School of Natural Sciences
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1 Sep 2020 → 31 Jul 2022

Professor of Soil and Environmental Science

Professor Teaching & Research
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1 Jan 2020 → 31 Aug 2020

Professor of Soil and Environmental Science

Professor Teaching & Research
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1 Jan 2019 → 31 Dec 2019

Professor of Soil and Environmental Science

Professor Teaching & Research
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1 Aug 2018 → 31 Dec 2019

Research outputs

Impact of Sediment Concentration on the Survival of Wastewater-Derived blaCTX-M-15-Producing E. coli, and the Implications for Dispersal into Estuarine Waters

Bashawri, Y. M. A., Robins, P., Jones, D. L., McDonald, J., Cooper, D. & Williams, P., 19 Oct 2020, In : International journal of environmental research and public health. 17, 20, 15 p., 7608.

Map of total phosphorus content in native soils of Brazil

Pavinato, P. S., Rocha, G. C., Cherubin, M. R., Harris, I., Jones, D. L. & Withers, P. J. A., 16 Oct 2020, In : Scientia Agricola. 78, 6

Response of soil phosphorus fractions and fluxes to different vegetation restoration types in a subtropical mountain ecosystem

Fu, D., Wu, X., Duan, C., Chadwick, D. R. & Jones, D. L., 1 Oct 2020, In : Catena. 193, 104663.

Wastewater and public health: the potential of wastewater surveillance for monitoring COVID-19

Farkas, K., Hillary, L., Malham, S., McDonald, J. & Jones, D. L., Oct 2020, In : Current Opinion in Environmental Science & Health. 17, p. 14-20 7 p.

Decoupled richness of generalist anaerobes and sulphate-reducing bacteria is driven by pH across land uses in temperate soils

George, P., Coelho, K. P., Creer, S., Lebron, I., Robinson, D. A. & Jones, D. L., 3 Sep 2020, In : European Journal of Soil Science.

Suppression of amino acid and oligopeptide mineralization by organic manure addition in a semiarid environment

Iqbal, S., Jones, D. L., Arif, M. S., Yasmeen, T., Xu, J., Khan, S. & Nadir, S., Sep 2020, In : Land Degradation and Development. 31, 15, p. 1915-1925

Viral indicators for tracking domestic wastewater contamination in the aquatic environment

Farkas, K., Walker, D., Adriaenssens, E., McDonald, J., Hillary, L., Malham, S. & Jones, D. L., 15 Aug 2020, In : Water Research. 181, 115926.

Crop residue carbon-to-nitrogen ratio regulates denitrifier N₂O production post flooding

Zhou, W., Jones, D. L., Hu, R., Clark, I. M. & Chadwick, D. R., Aug 2020, In : Biology and Fertility of Soils. 56, 6, p. 825-838

Raising the groundwater table in the non-growing season can reduce greenhouse gas emissions and maintain crop productivity in cultivated fen peats

Wen, Y., Freeman, B., Ma, Q., Evans, C. D., Chadwick, D. R., Zang, H. & Jones, D. L., 20 Jul 2020, In : Journal of Cleaner Production. 262, 121179.

Ocean warming increases the nitrogen demand and the uptake of organic nitrogen of the globally distributed seagrass *Zostera marina*

Alexandre, A., Quinta, R., Hill, P., Jones, D. L. & Santos, R., Jul 2020, In : Functional Ecology. 34, 7, p. 1325-1335

Traits of dominant species and soil properties co-regulate soil microbial communities across land restoration types in a subtropical plateau region of Southwest China

University, Y., China, K., Duan, C., Smith, A. R. & Jones, D. L., 15 Jun 2020, In : Ecological Engineering. 153

Impact of water table levels and winter cover crops on greenhouse gas emissions from cultivated peat soils

Wen, Y., Zang, H., Ma, Q., Freeman, B., Chadwick, D. R., Evans, C. D. & Jones, D. L., 1 Jun 2020, In : Science of the Total Environment. 719, 135130.

Conversion of coastal marshes to croplands decreases organic carbon but increases inorganic carbon in saline soils

Zhu, Y., Wang, Y., Guo, C., Xue, D., Li, J., Chen, Q., Song, Z., Lou, Y., Kuzyakov, Y., Wang, Z-L. & Jones, D. L., 30 May 2020, In : Land Degradation and Development. 31, 9, p. 1099-1109

Farmyard manure applications stimulate soil carbon and nitrogen cycling by boosting microbial biomass rather than changing its community composition

Ma, Q., Wen, Y., Wang, D., Sun, X., Hill, P. W., Macdonald, A., Chadwick, D. R., Wu, L. & Jones, D. L., 1 May 2020, In : Soil Biology and Biochemistry. 144, 107760.

Soil textural heterogeneity impacts bacterial but not fungal diversity

Seaton, F., George, P., Lebron, I., Jones, D. L., Creer, S. & Robinson, D. A., 1 May 2020, In : Soil Biology and Biochemistry. 144, 107766.

Use of untargeted metabolomics for assessing soil quality and microbial function

Withers, E., Hill, P. W., Chadwick, D. R. & Jones, D. L., Apr 2020, In : Soil Biology and Biochemistry. 143, 107758.

Soil health cluster analysis based on national monitoring of soil indicators

Seaton, F. M., Barrett, G., Burden, A., Creer, S., Fitos, E., Garbutt, A., Griffiths, R. I., Henrys, P., Jones, D. L., Keenan, P., Keith, A., Lebron, I., Maskell, L., Pereira, M. G., Reinsch, S., Smart, S. M., Williams, B., Emmett, B. A. & Robinson, D. A., 29 Mar 2020, In : European Journal of Soil Science.

Carbon and nitrogen recycling from microbial necromass to cope with C:N stoichiometric imbalance by priming

Cui, J., Zhu, Z., Xu, X., Liu, S., Jones, D. L., Kuzyakov, Y., Shibistova, O., Wu, J. & Ge, T., 1 Mar 2020, In : Soil Biology and Biochemistry. 142, 107720.

Dynamics of dissolved organic matter in headwaters: comparison of headwater streams with contrasting DOM and nutrient composition

Fovet, O., Cooper, D. M., Jones, D. L., Jones, T. G. & Evans, C. D., 24 Feb 2020, In : Aquatic Sciences. 82, 2, 29.

Cover crops affect the partial nitrogen balance in a maize-forage cropping system

Rocha, K. F., de Souza, M., Almeida, D. S., Chadwick, D. R., Jones, D. L., Mooney, S. J. & Rosolem, C. A., 15 Feb 2020, In : Geoderma. 360, 114000.

Behavior of microplastics and plastic film residues in the soil environment: A critical review

Qi, R., Jones, D. L., Li, Z., Liu, Q. & Yan, C., 10 Feb 2020, In : Science of the Total Environment. 703, 134722.

Microbial diversity dynamics during the self-acidification of dairy slurry

Bastami, M. S., Jones, D. L. & Chadwick, D. R., 7 Jan 2020, In : Environmental Technology.

Phosphorus acquisition by wheat from organic and inorganic sources labelled with P-32 and P-33 radioisotopes

Scrase, F. M., Sinclair, F. L., Farrar, J. F., Pavinato, P. S. & Jones, D. L., 2020, In : Scientia Agricola. 77, 3

Nitrification represents the bottle-neck of sheep urine patch N₂O emissions from extensively grazed organic soils

Marsden, K. A., Holmberg, J. A., Jones, D. L., Charteris, A. F., Cardenas, L. M. & Chadwick, D. R., 10 Dec 2019, In : Science of the Total Environment. 695, 133786.

Quantifying citrate-enhanced phosphate root uptake using microdialysis

McKay Fletcher, D. M., Shaw, R., Sanchez-Rodriguez, A. R., Daly, K. R., van Veelen, A., Jones, D. L. & Roose, T., 5 Dec 2019, In : Plant and Soil.

Angiosperm symbioses with non-mycorrhizal fungal partners enhance N acquisition from ancient organic matter in a warming maritime Antarctic

Hill, P., Broughton, R., Bougoure, J., Havelange, W., Newsham, K. K., Gran, H., Murphy, D. V., Clode, P., Ramayah, S., Marsden, K., Quilliam, R., Roberts, P., Brown, C., Read, D. J., DeLuca, T., Bardgett, R. D., Hopkins, D. W. & Jones, D. L., Dec 2019, In : Ecology Letters. 22, 12, p. 2111-2119 9 p.

Freeze-thaw and dry-wet events reduce microbial extracellular enzyme activity, but not organic matter turnover in an agricultural grassland soil

Miura, M., Jones, T. G., Hill, P. W. & Jones, D. L., Dec 2019, In : Applied Soil Ecology. 144, p. 196-199

Microbial utilization of low molecular weight organic carbon substrates in cultivated peats in response to warming and soil degradation

Wen, Y., Zang, H., Freeman, B., Musarika, S., Evans, C. D., Chadwick, D. R. & Jones, D. L., Dec 2019, In : Soil Biology and Biochemistry. 139, 107629.

Testing the relative sensitivity of 102 ecological variables as indicators of woodland condition in the New Forest, UK

Evans, P. M., Newton, A. C., Cantarello, E., Sanderson, N., Jones, D. L., Barsoum, N., Cottrell, J. E., A'Hara, S. W. & Fuller, L., Dec 2019, In : Ecological Indicators. 107, 105575.

Nutrient enrichment induces a shift in dissolved organic carbon (DOC) metabolism in oligotrophic freshwater sediments

Brailsford, F., Glanville, H., Golyshin, P., Marshall, M., Lloyd, C., Johnes, P. & Jones, D. L., 10 Nov 2019, In : Science of the Total Environment. 690, p. 1131-1139

N-15-amino sugar stable isotope probing (N-15-SIP) to trace the assimilation of fertiliser-N by soil bacterial and fungal communities

Reay, M. K., Charteris, A. F., Jones, D. L. & Evershed, R. P., Nov 2019, In : Soil Biology and Biochemistry. 138, 107599.

The pH optimum of soil exoenzymes adapt to long term changes in soil pH

Puissant, J., Jones, B., Goodall, T., Mang, D., Bland, A., Gweon, H. S., Malik, A., Jones, D. L., Clark, I. M., Hirsch, P. R. & Griffiths, R., Nov 2019, In : Soil Biology and Biochemistry. 138, 107601.

pH and exchangeable aluminum are major regulators of microbial energy flow and carbon use efficiency in soil microbial communities

Jones, D. L., Cooledge, E., Hoyle, F., Griffiths, R. & Murphy, D., Nov 2019, In : Soil Biology and Biochemistry. 138, 107584.

Vulnerability of British farms to post-Brexit subsidy removal, and implications for intensification, extensification and land sparing.

Arnott, D., Chadwick, D., Wynne-Jones, S. & Jones, D. L., 18 Oct 2019, In : Land Use Policy. 104154.

Plant and soil communities are associated with the response of soil water repellency to environmental stress

Seaton, F., Jones, D. L., Creer, S., George, P., Smart, S. M., Lebron, I., Barrett, G., Emmett, B. & Robinson, D., 15 Oct 2019, In : Science of the Total Environment. 687, p. 929-938

Rye cover crop incorporation and high watertable mitigate greenhouse gas emissions in cultivated peatland

Wen, Y., Zang, H., Freeman, B., Ma, Q., Chadwick, D. R. & Jones, D. L., Oct 2019, In : Land Degradation and Development. 30, 16, p. 1928-1938

Is the 'enzyme latch' or 'iron gate' the key to protecting soil organic carbon in peatlands?

Wen, Y., Zang, H., Ma, Q., Evans, C. D., Chadwick, D. R. & Jones, D. L., 1 Sep 2019, In : Geoderma. 349, p. 107-113

Short-term responses of greenhouse gas emissions and ecosystem carbon fluxes to elevated ozone and N fertilization in a temperate grassland

Wang, J., Hayes, F., Hill, P. W., Chadwick, D. R., Mills, G. & Jones, D. L., 15 Aug 2019, In : Atmospheric Environment. 211, p. 204-213 10 p.

Microbial uptake kinetics of dissolved organic carbon (DOC) compound groups from river water and sediments

Brailsford, F. L., Glanville, H. C., Golyshin, P. N., Johnes, P. J., Yates, C. A. & Jones, D. L., 2 Aug 2019, In : Scientific Reports. 9, 1, 11229.

High resolution HPLC-MS confirms overestimation of urea in soil by the diacetyl monoxime (DAM) colorimetric method
Reay, M. K., Yates, C. A., Johns, P. J., Arthur, C. J., Jones, D. L. & Evershed, R. P., Aug 2019, In : Soil Biology and Biochemistry. 135, p. 127-133

Agroecosystem resilience in response to extreme winter flooding

Harvey, R. J., Chadwick, D. R., Sánchez-Rodríguez, A. R. & Jones, D. L., 1 Jul 2019, In : Agriculture, Ecosystems and Environment. 279, p. 1-13

Application of Bayesian statistics to estimate nitrous oxide emission factors of three nitrogen fertilisers on UK grasslands

Cowan, N., Levy, P., Drewer, J., Carswell, A., Shaw, R., Simmons, I., Bache, C., Marinheiro, J., Brichet, J., Sanchez-Rodriguez, A. R., Cotton, J., Hill, P. W., Chadwick, D. R., Jones, D. L., Misselbrook, T. H. & Skiba, U., Jul 2019, In : Environment International. 128, p. 362-370

The Design and Deployment of an End-To-End IoT Infrastructure for the Natural Environment

Nundloll, V., Porter, B., Blair, G. S., Emmett, B., Cosby, J., Jones, D. L., Chadwick, D., Winterbourn, J. B., Beattie, P., Dean, G., Shaw, R., Shelley, W., Brown, M. & Ullah, I., 7 Jun 2019, In : Future Internet. 11, 6, 129.

Critical Evaluation of CrAssphage as a Molecular Marker for Human-Derived Wastewater Contamination in the Aquatic Environment

Farkas, K., Adriaenssens, E. M., Walker, D. I., McDonald, J., Malham, S. & Jones, D. L., 1 Jun 2019, In : Food and Environmental Virology. 11, 2, p. 113-119

Slurry acidification and anaerobic digestion affects the speciation and vertical movement of particulate and nanoparticulate phosphorus in soil after cattle slurry application

Li, Y., Jones, D. L., Chen, Q. & Chadwick, D. R., Jun 2019, In : SOIL & TILLAGE RESEARCH. 189, p. 199-206 8 p.

Viral dispersal in the coastal zone: a method to quantify water quality risk

Robins, P., Farkas, K., Jones, D. L., Cooper, D. & Malham, S., May 2019, In : Environment International. 126, p. 430-442

Assessing the benefits and wider costs of different N fertilisers for grassland agriculture

Carswell, A., Shaw, R., Hunt, J., Rafael Sanchez-Rodriguez, A., Saunders, K., Cotton, J., Hill, P. W., Chadwick, D. R., Jones, D. L. & Misselbrook, T. H., 16 Apr 2019, In : Archives of Agronomy and Soil Science . 65, 5, p. 625-639

Effects of four years of elevated ozone on microbial biomass and extracellular enzyme activities in a semi-natural grassland

Wang, J., Hayes, F., Turner, R., Chadwick, D. R., Mills, G. & Jones, D. L., 10 Apr 2019, In : Science of the Total Environment. 660, p. 260-268 9 p.

Hotspots and hot moments of amino acid N in soil: Real-time insights using continuous microdialysis sampling

Hill, E., Jones, D. L., Paterson, E. & Hill, P., Apr 2019, In : Soil Biology and Biochemistry. 131, p. 40-43

Divergent national-scale trends of microbial and animal biodiversity revealed across diverse temperate soil ecosystems

George, P., Lallias, D., Creer, S., Seaton, F., Kenny, J. G., Eccles, R. M., Griffiths, R. I., Lebron, I., Emmett, B., Robinson, D. & Jones, D. L., 7 Mar 2019, In : Nature Communications. 10, 1, p. 1107 1107.

Development of Alditol Acetate Derivatives for the Determination of 15N-Enriched Amino Sugars by Gas Chromatography-Combustion-Isotope Ratio Mass Spectrometry

Reay, M. K., Knowles, T. D. J., Jones, D. L. & Evershed, R. P., 5 Mar 2019, In : Analytical Chemistry. 91, 5, p. 3397-3404 8 p.

Estimating greenhouse gases emissions from horticultural peat soils using a DNDC modelling approach

Taft, H. E., Cross, P. A., Hastings, A., Yeluripati, J. & Jones, D. L., 1 Mar 2019, In : Journal of Environmental Management. 233, p. 681-694 14 p.

Extreme flood events at higher temperatures exacerbate the loss of soil functionality and trace gas emissions in grassland
Rafael Sanchez-Rodriguez, A., Nie, C., Hill, P. W., Chadwick, D. R. & Jones, D. L., Mar 2019, In : Soil Biology and Biochemistry. 130, p. 227-236

Mycorrhizas improve the absorption of non-available phosphorus by the green manure *Tithonia diversifolia* in poor soils
Scrase, F. M., Sinclair, F. L., Farrar, J. F., Pavinato, P. S. & Jones, D. L., Mar 2019, In : Rhizosphere. 9, p. 27-33 7 p.

Science to Policy: Climate-proofing grassland productivity

Wiik, E., Jones, D. L., Chadwick, D., Hill, P., Sanchez Rodriguez, A., Dodd, R., Turner, R., Kingston-Smith, A., Gwynn-Jones, D., Doonan, J., Scullion, J., Loka, D., Hayes, F., Robinson, D. & Toberman, H., Mar 2019, Ser Cymru National Research Network for Low Carbon, Energy and Environment. (Science to Policy)

Impacts of abiotic stresses on the physiology and metabolism of cool-season grasses: A review

Loka, D., Harper, J., Humphreys, M., Gasior, D., Wootton-Beard, P., Gwynn-Jones, D., Scullion, J., Doonan, J., Kingston-Smith, A., Dodd, R., Wang, J., Chadwick, D., Hill, P., Jones, D., Mills, G., Hayes, F. & Robinson, D., Feb 2019, In : Food and Energy Security. 8, 1, e00152.

Typology of extreme flood event leads to differential impacts on soil functioning

Rafael Sanchez-Rodriguez, A., Hill, P. W., Chadwick, D. R. & Jones, D. L., Feb 2019, In : Soil Biology and Biochemistry. 129, p. 153-168

Archaea dominate the microbial community in an ecosystem with low-to-moderate temperature and extreme acidity

Korzhenkov, A. A., Toshchakov, S. V., Bargiela, R., Gibbard, H., Ferrer, M., Teplyuk, A. V., Jones, D. L., Kublanov, I. V., Golyshin, P. & Golyshina, O., 28 Jan 2019, In : Microbiome. 7, 1, 11.

Solubility, Diffusion and Crop Uptake of Phosphorus in Three Different Struvites

Rech, I., Withers, P. J. A., Jones, D. L. & Pavinato, P. S., Jan 2019, In : Sustainability. 11, 1, 134.

Plant-microbe competition: does injection of isotopes of C and N into the rhizosphere effectively characterise plant use of soil N?

Hill, P. & Jones, D. L., 20 Dec 2018, In : New Phytologist. 221, 2, p. 796-806

Can In-Situ Soil Nitrate Measurements Improve Nitrogen-Use Efficiency in Agricultural Systems?

Jones, D. L., Chadwick, D. R., Rengaraj, S., Wu, D., Williams, A. P., Hill, P. W., Miller, A. J., Lark, R. M., Rosolem, C. A., Damin, V. & Shaw, R., 1 Dec 2018, *Proceedings 1466-1314*. International Fertiliser Society, Vol. 825. p. 1-32 32 p. 825

Efficacy of mitigation measures for reducing greenhouse gas emissions from intensively cultivated peatlands

Taft, H., Cross, P. & Jones, D. L., Dec 2018, In : Soil Biology and Biochemistry. 127, p. 10-21

Seasonal and diurnal surveillance of treated and untreated wastewater for human enteric viruses

Farkas, K., Marshall, M., Cooper, D., McDonald, J., Malham, S., Peters, D. E., Maloney, J. & Jones, D. L., 1 Nov 2018, In : Environmental Science and Pollution Research. 25, 33, p. 33391-33401

Interaction of straw amendment and soil NO₃- content controls fungal denitrification and denitrification product stoichiometry in a sandy soil

Senbayram, M., Well, R., Bol, R., Chadwick, D. R., Jones, D. L. & Wu, D., Nov 2018, In : Soil Biology and Biochemistry. 126, p. 204-212

Stoichiometric constraints on the microbial processing of carbon with soil depth along a riparian hillslope

de Sosa, L. L., Glanville, H. C., Marshall, M. R., Schnepf, A., Cooper, D. M., Hill, P. W., Binley, A. & Jones, D. L., Nov 2018, In : Biology and Fertility of Soils. 54, 8, p. 949-963

Plant organic N uptake maintains species dominance under long-term warming

Jiang, L., Wang, S., Zhe, P., Xu, X., Kardol, P., Li, Y., Zhang, L., Wang, Y., Lei, Z., Lan, Z., Hill, P. W., Zhang, Z., Luo, C., Rui, Y., Ning, D. & Jones, D. L., 25 Oct 2018, In : Plant and Soil. 433, 1-2, p. 243-255

Sheep urine patch N₂O emissions are lower from extensively-managed than intensively-managed grasslands

Marsden, K., Holmberg, J., Jones, D. L. & Chadwick, D., 1 Oct 2018, In : *Agriculture, Ecosystems and Environment*. 265, p. 264-274

Two-Step Concentration of Complex Water Samples for the Detection of Viruses

Farkas, K., McDonald, J., Malham, S. & Jones, D. L., 10 Sep 2018, In : *Methods and Protocols*. 1, 3, 35.

Repeated application of anaerobic digestate, undigested cattle slurry and inorganic fertilizer N: Impacts on pasture yield and quality

Walsh, J. J., Jones, D. L., Chadwick, D. & Williams, A., 1 Sep 2018, In : *Grass and Forage Science*. 73, p. 758-763

Seasonal and spatial dynamics of enteric viruses in wastewater and in riverine and estuarine receiving waters

Malham, S., Farkas, K., McDonald, J., Jones, D. L., Cooper, D. & de Rougemont, A., 1 Sep 2018, In : *Science of the Total Environment*. 634, p. 1174 1183 p.

Nano-Sized and Filterable Bacteria and Archaea: Biodiversity and Function

Ghuneim, L-A., Jones, D. L., Golyshin, P. & Golyshina, O., 21 Aug 2018, In : *Frontiers in Microbiology*. 9, 1971.

Fertilizer regime changes the competitive uptake of organic nitrogen by wheat and soil microorganisms: An in-situ uptake test using ¹³C, ¹⁵N labelling, and ¹³C-PLFA analysis

Ma, Q., Wu, L., Wang, J., Ma, J., Zheng, N., Hill, P., Chadwick, D. & Jones, D. L., 10 Aug 2018, In : *Soil Biology and Biochemistry*. 125, p. 319-327

Role of substrate supply on microbial carbon use efficiency and its role in interpreting soil microbial community-level physiological profiles (CLPP)

Jones, D. L., Hill, P., Smith, A., Farrell, M., Ge, T. & Murphy, D. V., Aug 2018, In : *Soil Biology and Biochemistry*. 123, p. 1-6 6 p.

Methodological bias associated with soluble protein recovery from soil

Greenfield, L., Hill, P., Paterson, E., Baggs, L. & Jones, D. L., 25 Jul 2018, In : *Scientific Reports*. 8, 11186 (2018).

Advanced Processing of Food Waste Based Digestate for Mitigating Nitrogen Losses in a Winter Wheat Crop

Sanchez Rodriguez, A., Carswell, A. M., Shaw, R., Hunt, J., Saunders, K., Cotton, J., Chadwick, D., Jones, D. L. & Misselbrook, T. H., 17 Jul 2018, In : *Frontiers in Sustainable Food Systems*.

Soil microbial populations in deep floodplain soils are adapted to infrequent but regular carbon substrate addition

Cressey, E. L., Dungait, J. A. J., Jones, D. L., Nicholas, A. P. & Quine, T. A., Jul 2018, In : *Soil Biology and Biochemistry*. 122, p. 60-70

Sampling root exudates - Mission impossible?

Jones, D. L. & Oburger, E., 30 Jun 2018, In : *Rhizosphere*. 6, p. 116-133

Substrate Influences Temperature Sensitivity of Dissolved Organic Carbon (DOC) and Nitrogen (DON) Mineralization in Arid Agricultural Soils

Almulla, A., Jones, D. & Roberts, P., Jun 2018, In : *Soil Systems*. 2, 2, 28.

Viromic Analysis of Wastewater Input to a River Catchment Reveals a Diverse Assemblage of RNA Viruses

Adriaenssens, E. M., Farkas, K., Harrison, C., Jones, D. L., Allison, H. E. & McCarthy, A., 22 May 2018, In : *mSystems*. 3, 3, e00025-18.

Determining the influence of environmental and edaphic factors on the fate of the nitrification inhibitors DCD and DMPP in soil

Guardia, G., Marsden, K., Vallejo, A., Jones, D. & Chadwick, D., 15 May 2018, In : *Science of the Total Environment*. 624, p. 1202-1212

Quantifying the contribution of riparian soils to the provision of ecosystem services

de Sosa, L. L., Glanville, H. C., Marshall, M. R., Williams, A. P. & Jones, D. L., 15 May 2018, In : Science of the Total Environment. 624, p. 807-819

Spatial zoning of microbial functions and plant-soil nitrogen dynamics across a riparian area in an extensively grazed livestock system

de Sousa, L., Glanville, H., Marshall, M., Williams, A., Abadie, M., Clark, I. M., Blaud, A. & Jones, D. L., May 2018, In : Soil Biology and Biochemistry. 120, p. 153-164

Comparative effects of prolonged freshwater and saline flooding on nitrogen cycling in an agricultural soil

Sanchez Rodriguez, A., Chadwick, D., Tatton, G., Hill, P. & Jones, D. L., Apr 2018, In : Applied Soil Ecology. 125, p. 56-70

Riparian research and legislation, are they working towards the same common goals? A UK case study

Lozano de Sosa Miralles, L., Williams, A., Orr, H. H. & Jones, D. L., Apr 2018, In : Environmental Science and Policy. 82, p. 126-135

Critical review of the impacts of grazing intensity on soil organic carbon storage and other soil quality indicators in extensively managed grasslands

Abdalla, M., Hastings, A., Chadwick, D. R., Jones, D. L., Evans, C. D., Jones, M. B., Rees, R. M. & Smith, P., 1 Feb 2018, In : Agriculture, Ecosystems and Environment. 253, p. 62-81

Microbial competition for nitrogen and carbon is as intense in the subsoil as in the topsoil

Jones, D., Magthab, E., Gleeson, D. B., Hill, P., Sanchez-Rodriguez, A. R., Roberts, P., Ge, T. & Murphy, D. V., Feb 2018, In : Soil Biology and Biochemistry. 117, p. 72-82

Moisture activation and carbon use efficiency of soil microbial communities along an aridity gradient in the Atacama Desert

Jones, D. L., Olivera-Ardid, S., Klumpp, E., Knief, C., Huil, P. W., Lehdorff, E. & Bol, R., Feb 2018, In : Soil Biology and Biochemistry. 117, p. 68-71

Impact of microbial activity on the leaching of soluble N forms in soil

Carswell, A. M., Hill, P., Jones, D., Blackwell, M. S. A., Johnes, P. J., Chadwick, D. & Dixon, E. R., Jan 2018, In : Biology and Fertility of Soils. 54, 1, p. 21-25

Detecting macroecological patterns in bacterial communities across independent studies of global soils

Ramirez, K. S., Knight, C. G., Hollander, M., Brearley, F. Q., Constantinides, B., Cotton, T. E. A., Creer, S., Crowther, T. W., Davison, J., Delgado-Baquerizo, M., Dorrepaal, E., Elliott, D. R., Fox, G., Griffiths, R., Hale, C., Hartman, K., Houlden, A., Jones, D., Krab, E. J., Maestre, F. T., McGuire, K. L., Monteux, S., Orr, C. H., van der Putten, W. H., Roberts, I. S., Robinson, D., Rocca, J., Rowntree, J., Schlaeppli, K., Shepherd, M., Singh, B. K., Straathof, A., Talbot, J. M., Thion, C., van der Heijden, M. & de Vries, F. T., 2018, In : Nature Microbiology. 3, p. 189-196 8 p.

Evaluation of mesofauna communities as soil quality indicators in a national-level monitoring programme

George, P., Keith, A. M., Creer, S., Barrett, G. L., Lebron, I., Emmett, B. A., Robinson, D. & Jones, D., 1 Dec 2017, In : Soil Biology and Biochemistry. 115, p. 537-546

Microbial use of low molecular weight DOM in filtered and unfiltered freshwater: Role of ultra-small microorganisms and implications for water quality monitoring

Brailsford, F., Glanville, H., Marshall, M., Golyshin, P., Jones, P. J., Yates, C. A., Owen, A. T. & Jones, D. L., 15 Nov 2017, In : Science of the Total Environment. 598, p. 377-384

Potential contribution of soil diversity and abundance metrics to identifying high nature value farmland (HNV)

Jones, D., 1 Nov 2017, In : Geoderma. 305, p. 417-432

Influence of biochar produced from different pyrolysis temperature on nutrient retention and leaching

Cheng, H., Jones, D. L., Hill, P., Bastami, M. S. B. & Tu, C. I., 5 Oct 2017, In : Archives of Agronomy and Soil Science. 64, 6, p. 850-859

Stability and dynamics of enzyme activity patterns in the rice rhizosphere: Effects of plant growth and temperature
Jones, D., 1 Oct 2017, In : Soil Biology and Biochemistry. 113, p. 108-115

Physicochemical Factors Influence the Abundance and Culturability of Human Enteric Pathogens and Fecal Indicator Organisms in Estuarine Water and Sediment

Hassard, F., Andrews, A., Jones, D. L., Parsons, L., Jones, V., Cox, B. A., Daldorph, P., Brett, H., McDonald, J. & Malham, S., Oct 2017, In : Frontiers in Microbiology. 8, 1996.

Evaluation of Two Triplex One-Step qRT-PCR Assays for the Quantification of Human Enteric Viruses in Environmental Samples

Farkas, K., Peters, D. E., McDonald, J., de Rougemont, A., Malham, S. & Jones, D., Sep 2017, In : Food and Environmental Virology. 9, 3, p. 342-349

Ferrous iron- and ammonium-rich diffuse vents support habitat-specific communities in a shallow hydrothermal field off the Basiluzzo Islet (Aeolian Volcanic Archipelago)

Bortoluzzi, G., Romeo, T., La Cono, V., La Spada, G., Smedile, F., Esposito, V., Sabatino, G., Di Bella, M., Canese, S., Scotti, G., Bo, M., Giuliano, L., Golyshin, P., Jones, D., Yakimov, M. M. & Andaloro, F., Sep 2017, In : Geobiology. 15, 5, p. 664-677

DMPP is ineffective at mitigating N₂O emissions from sheep urine patches in a UK grassland under summer conditions
Marsden, K., Jones, D. & Chadwick, D., 1 Aug 2017, In : Agriculture, Ecosystems and Environment. 246, p. 1-11 11 p.

Critical comparison of the impact of biochar and wood ash on soil organic matter cycling and grassland productivity
Jones, D., Hill, P. & Chadwick, D., Jul 2017, In : Soil Biology and Biochemistry. 110, p. 134-142

Thresholds of biodiversity and ecosystem function in a forest ecosystem undergoing dieback
Jones, D., Jul 2017, In : Scientific Reports. 7, 6775.

Crop residues exacerbate the negative effects of extreme flooding on soil quality
Hill, P., Jones, D. & Chadwick, D., 19 Jun 2017, In : Biology and Fertility of Soils.

Biochar stimulates the decomposition of simple organic matter and suppresses the decomposition of complex organic matter in sandy loam soil

Cheng, H., Hill, P., Bastami, M. S. & Jones, D., Jun 2017, In : GCB Bioenergy. p. 1110-1121

Critical Review on the Public Health Impact of Norovirus Contamination in Shellfish and the Environment: A UK Perspective

Hassard, F., Sharp, J., Taft, H., Le Vay, L., Harris, J., McDonald, J., Tuson, K., Wilson, J., Jones, D. & Malham, S., Jun 2017, In : Food and Environmental Virology. 9, 2, p. 123-141

Leaf dry matter content is better at predicting above-ground net primary production than specific leaf area

Smart, S. M., Glanville, H., del Carmen Blanes, M., Mercado, L. M., Emmett, B., Cosby, B., Jones, D., Marrs, R. H., Butler, A., Marshall, M., Reinsch, S., Herrero-Jauregui, C. & Hodgson, J. G., Jun 2017, In : Functional Ecology. 31, 6, p. 1336-1344

Rice rhizodeposition and carbon stabilisation in paddy soil are regulated via drying-rewetting cycles and nitrogen fertilisation

Jones, D., 1 May 2017, In : Biology and Fertility of Soils. 53, 4, p. 407 417 p.

Different ways in which CO₂ can be released during the turnover of roots in soil

Marella, V. S., Roberts, P., Hill, P. & Jones, D. L., May 2017, In : Biology and Fertility of Soils. 53, 4, p. 369-374

Effects of grazing on the acquisition of nitrogen by plants and microorganisms in an alpine grassland on the Tibetan plateau

Jiang, L., Wang, S., Zhe, P., Wang, C., Kardol, P., Zhong, L., Yu, Q., Lan, Z., Wang, Y., Xu, X., Kuzyakov, Y., Luo, C., Zhang, Z. & Jones, D. L., 9 Mar 2017, In : *Plant and Soil*. 416, 1-2, p. 297-308

Response of soil microbial community to afforestation with pure and mixed specie

Gunina, A., Smith, A., Godbold, D., Jones, D. & Kuzyakov, Y., 1 Mar 2017, In : *Plant and Soil*. 412, 1-2, p. 357-368

Microbial uptake and utilization of low molecular weight organic substrates in soil depend on carbon oxidation state

Gunina, A., Smith, A., Jones, D. & Kuzyakov, Y., Mar 2017, In : *Biogeochemistry*. 133, 1, p. 89-100

Evaluation of Molecular Methods for the Detection and Quantification of Pathogen-Derived Nucleic Acids in Sediment

Farkas, K., Hassard, F., McDonald, J., Malham, S. & Jones, D., 24 Jan 2017, In : *Frontiers in Microbiology*. 6, p. 1-12 53.

Greenhouse gas emissions from intensively managed peat soils in an arable production system

Taft, H., Cross, P., Edwards-Jones, G., Moorhouse, E. R. & Jones, D., 16 Jan 2017, In : *Agriculture, Ecosystems and Environment*. 237, p. 162 172 p.

Long-Term Recovery of Microbial Communities in the Boreal Bryosphere Following Fire Disturbance

Cutler, N., Arroniz-Crespo, M., Street, L. E., Jones, D., Chaput, D. L. & DeLuca, T. H., 1 Jan 2017, In : *Microbial Ecology*. 73, 1, p. 75-90

Rice rhizodeposition and its utilization by microbial groups depends on N fertilization

Ge, T., Li, B., Zhu, Z., Hu, Y., Yuan, H., Dorodnikov, M., Jones, D., Wu, J. & Kuzyakov, Y., 1 Jan 2017, In : *Biology and Fertility of Soils*. 53, 1, p. 37 48 p.

Waste Water Treatment

Jones, D., Freeman, C. & Sánchez-Rodríguez, A. R., 1 Jan 2017, *Encyclopedia of Applied Plant Sciences*. Thomas, B., Murray, B. G. & Murphy, D. J. (eds.). 2 ed. Elsevier, Vol. 3. p. 352 10 p.

Biochar concomitantly increases simazine sorption in sandy loam soil and lowers its dissipation

Cheng, H., Jones, D., Hill, P. & Bastami, M. S., 2017, In : *Archives of Agronomy and Soil Science*. 63, 8, p. 1082-1092

Effectiveness of a wool based packaging system on the abundance of surface spoilage microorganisms on meat products

Curling, S., Jones, D., Ormondroyd, G. & Williams, A., 2017, In : *Arab Gulf Journal of Scientific Research*. 34, 2/3

Decay rates of faecal indicator bacteria from sewage and ovine faeces in brackish and freshwater microcosms with contrasting suspended particulate matter concentrations

Perkins, T. L., Perrow, K. A., Rajko-Nenow, P., Jago, C. F., Jones, D. L., Malham, S. K. & McDonald, J. E., 1 Dec 2016, In : *Science of the Total Environment*. 572, p. 1645-1652

Is the fate of glucose-derived carbon more strongly driven by nutrient availability, soil texture, or microbial biomass size?

Creamer, C. A., Jones, D. L., Baldock, J. A., Rui, Y., Murphy, D. V., Hoyle, F. C. & Farrell, M., 1 Dec 2016, In : *Soil Biology and Biochemistry*. 103, p. 201-212

Mineralisation and sorption of dissolved organic nitrogen compounds in litter and soil from sugarcane fields

Mariano, E., Jones, D. L., Hill, P. W. & Trivelin, P. C. O., 1 Dec 2016, In : *Soil Biology and Biochemistry*. 103, p. 522-532

Spatial patterns and environmental constraints on ecosystem services at a catchment scale

Emmett, B., Cooper, D., Smart, S., Jackson, B., Thomas, A., Cosby, B., Evans, C., Glanville, H., McDonald, J., Malham, S., Marshall, M., Jarvis, S., Rajko-Nenow, P., Webb, G. P., Ward, S., Rowe, E., Jones, L., Vanbergen, E. J., Keith, A., Carter, H., Pereira, M. G., Hughes, S., Lebron, I., Wade, A. & Jones, D., 1 Dec 2016, In : *Science of the Total Environment*. 572, p. 1586-1600

Limited effects of land use on soil dissolved organic matter chemistry as assessed by excitation–emission fluorescence spectroscopy and molecular weight fractionation

Roberts, P., Gibbons, J., Hill, P., Jones, D. & Farrell, M., Dec 2016, In : Soil Use and Management. 32, 4, p. 662-665

Use of *Mytilus edulis* biosentinels to investigate spatial patterns of norovirus and faecal indicator organism contamination around coastal sewage discharges

Winterbourn, J., Clements, K., Lowther, J. A., Malham, S., McDonald, J. & Jones, D., 15 Nov 2016, In : Water Research. 105, November, p. 241-250

Abundance and Distribution of Enteric Bacteria and Viruses in Coastal and Estuarine Sediments—a Review

Hassard, F., Gwyther, C. L., Farkas, K., Andrews, A., Jones, V., Cox, B., Brett, H., Jones, D., McDonald, J. & Malham, S., 1 Nov 2016, In : Frontiers in Microbiology.

Mineral nitrogen forms alter C-14-glucose mineralisation and nitrogen transformations in litter and soil from two sugarcane fields

Mariano, E., Hill, P. W., Trivelin, P. C. O. & Jones, D., 1 Nov 2016, In : Applied Soil Ecology. 107, p. 154-161

Reduction of Methane Emission during Slurry Storage by the Addition of Effective Microorganisms and Excessive Carbon Source from Brewing Sugar

Bastami, M. S. B., Jones, D. L. & Chadwick, D. R., 1 Nov 2016, In : Journal of Environmental Quality. 45, 6, p. 2016-2022

Improving livestock production efficiencies presents a major opportunity to reduce sectoral greenhouse gas emissions

Hyland, J., Styles, D., Jones, D. & Williams, A., 1 Sep 2016, In : Agricultural Systems. 147, p. 123-131

Use of a coupled soil-root-leaf model to optimise phosphate fertiliser use efficiency in barley

Heppell, J., Payvandi, S., Talboys, P., Zygalkis, K. C., Langton, D., Sylvester-Bradley, R., Edwards, A. C., Walker, R., Withers, P., Jones, D. & Roose, T., 1 Sep 2016, In : Plant and Soil. 406, 1-2, p. 341-357

Warming alters competition for organic and inorganic nitrogen between co-existing grassland plant species

Kuster, T. M., Wilkinson, A., Hill, P. W., Bardgett, R. D. & Jones, D., 1 Sep 2016, In : Plant and Soil. 406, 1-2, p. 117-129

Characterising the within-field scale spatial variation of nitrogen in a grassland soil to inform the efficient design of in-situ nitrogen sensor networks for precision agriculture

Shaw, R., Lark, R. M., Williams, A. P., Chadwick, D. R. & Jones, D., 16 Aug 2016, In : Agriculture, Ecosystems and Environment. 230, p. 294-306

Integration of biochar with animal manure and nitrogen for improving maize yields and soil properties in calcareous semi-arid agroecosystems

Arif, M., Ali, K., Jan, M. T., Shah, Z., Jones, D. & Quilliam, R. S., 15 Aug 2016, In : Field Crops Research. 195, p. 28-35

Transformations in DOC along a source to sea continuum; impacts of photo-degradation, biological processes and mixing

Jones, T. G., Evans, C. D., Jones, D., Hill, P. W. & Freeman, C., 1 Jul 2016, In : Aquatic Sciences. 78, 3, p. 433-446

Microbial turnover of above and belowground litter components in shrublands

Marella, V. S., Hill, P., Jones, D. & Roberts, P., Jul 2016, In : Pedobiologia. 59, 4, p. 229-232

Effects of warming and grazing on dissolved organic nitrogen in a Tibetan alpine meadow ecosystem

Jiang, L., Wang, S., Luo, C., Zhu, X., Kardol, P., Zhang, Z., Li, Y., Wang, C., Wang, Y. & Jones, D., 1 May 2016, In : SOIL & TILLAGE RESEARCH. 158, May, p. 156-164

Short-term biotic removal of dissolved organic nitrogen (DON) compounds from soil solution and subsequent mineralisation in contrasting grassland soils

Carswell, A. M., Hill, P. W., Jones, D., Blackwell, M. S. A., Johnes, P. & Chadwick, D. R., 1 May 2016, In : Soil Biology and Biochemistry. 96, p. 82-85

The mobility of nitrification inhibitors under simulated ruminant urine deposition and rainfall: a comparison between DCD and DMPP

Marsden, K. A., Marin-Martinez, A. J., Vallejo, A., Hill, P. W., Jones, D. & Chadwick, D. R., 1 May 2016, In : *Biology and Fertility of Soils*. 52, 4, p. 491-503

Effectiveness of a wool based packaging system on the abundance of surface spoilage microorganisms on meat products

Lahmer, R. A., Morris, A., Curling, S., Ormondroyd, G., Jones, D. & Williams, A., May 2016, In : *Assiut Journal of Agricultural Sciences (AJAS)*. 47, 2, p. 24-28

Imaging the interaction of roots and phosphate fertiliser granules using 4D X-ray tomography

Ahmed, S., Klassen, T. N., Keyes, S., Daly, M., Mavrogordato, M., Sinclair, I., Jones, D. & Roose, T., 1 Apr 2016, In : *Plant and Soil*. 401, 1-2, p. 125-134

Modelling the optimal phosphate fertiliser and soil management strategy for crops

Heppell, J., Payvandi, S., Talboys, P., Zygalkis, K. C., Fliege, J., Langton, D., Sylvester-Bradley, R., Walker, R., Jones, D. & Roose, T., 1 Apr 2016, In : *Plant and Soil*. 401, 1-2, p. 135-149

Struvite: a slow-release fertiliser for sustainable phosphorus management?

Withers, P. J., Talboys, P. J., Heppell, J., Roose, T., Healey, J. R. & Jones, D. L., 1 Apr 2016, In : *Plant and Soil*. 401, 1, p. 109-123

Freeze-thaw cycles have minimal effect on the mineralisation of low molecular weight, dissolved organic carbon in Arctic soils

Foster, A., Jones, D. L., Cooper, E. J. & Roberts, P., 11 Mar 2016, In : *Polar Biology*. p. 1-15

Assessing biochar ecotoxicology for soil amendment by root phytotoxicity bioassays

Visioli, G., Conti, F. D., Menta, C., Bandiera, M., Malcevski, A., Jones, D. & Vamerali, T., 1 Mar 2016, In : *Environmental Monitoring and Assessment*. 188, 3

Do Effective Micro-Organisms Affect Greenhouse Gas Emissions from Slurry Crusts?

Bastami, M. S. B., Chadwick, D. & Jones, D., 1 Mar 2016, In : *Journal of Advanced Agricultural Technologies*. 3, 1

Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?

Graham, E. B., Knelman, J. E., Schindlbacher, A., Siciliano, S., Breulmann, M., Yannarell, A., Bemans, J. M., Abell, G., Philippot, L., Prosser, J., Foulquier, A., Yuste, J. C., Glanville, H. C., Jones, D., Angel, F., Salminen, J., Newton, R. J., Buergermann, H., Ingram, L. J., Hamer, U., Siljanen, H. M. P., Peltoniemi, K., Potthast, K., Banerjee, S., Banerjee, S., Yu, R.-Q., Nogaro, G., Richter, A., Koranda, M., Castle, S. C., Goberna, M., Song, B., Chatterjee, A., Nunes, O. C., Lopes, A. R., Cao, Y., Kaisermann, A., Hallin, S., Strickland, M. S., Garcia-Pausas, J., Barba, J., Kang, H., Isobe, K., Papaspyrou, S., Pastorelli, R., Lagomarsino, A., Lindstrom, E. S., Basiliko, N. & Nemergut, D. R., 24 Feb 2016, In : *Frontiers in Microbiology*. 7

Disentangling the effect of sheep urine patch size and nitrogen loading rate on cumulative N₂O emissions

Marsden, K., Jones, D. L. & Chadwick, D., 9 Feb 2016, In : *Animal Production Science*. 56, 3, p. 265-275

Experimental evidence for drought induced alternative stable states of soil moisture.

Robinson, D., Jones, S. B., Lebron, I., Reinsch, S., Dominguez, M., Smith, A., Jones, D., Marshall, M. & Emmett, B., 25 Jan 2016, In : *Scientific Reports*. 6, 20018 .

The urine patch diffusional area: An important N₂O source?

Marsden, K. A., Jones, D. & Chadwick, D. R., Jan 2016, In : *Soil Biology and Biochemistry*. 92, January, p. 161-170

Combined use of empirical data and mathematical modelling to better estimate the microbial turnover of isotopically labelled carbon substrates in soil

Glanville, H., Hill, P. W., Schnepf, A., Oburger, E. & Jones, D. L., 14 Dec 2015, In : Soil Biology and Biochemistry. 94, March 2016, p. 154-168

Plant acquisition and metabolism of the synthetic nitrification inhibitor dicyandiamide and naturally-occurring guanidine from agricultural soils

Marsden, K. A., Scowen, M., Hill, P. W., Jones, D. L. & Chadwick, D. R., Oct 2015, In : Plant and Soil. 395, 1, p. 201-214

Humic and fulvic acids as biostimulants in horticulture

Canellas, L. P., Olivares, F. L., Aguiar, N. O., Jones, D. L., Nebbioso, A., Mazzei, P. & Piccolo, A., 26 Sep 2015, In : Scientia Horticulturae. 196, p. 15-27

Developing farm-specific marginal abatement cost curves: Cost-effective greenhouse gas mitigation opportunities in sheep farming systems

Jones, A. K., Jones, D. L. & Cross, P., 12 Sep 2015, In : Land Use Policy. 49, p. 394-403

Differential acquisition of amino acid and peptide enantiomers within the soil microbial community and its implications for carbon and nitrogen cycling in soil

Broughton, R. C., Newsham, K. K., Hill, P. W., Stott, A. & Jones, D. L., Sep 2015, In : Soil Biology and Biochemistry. 88, p. 83-89

Tree species identity influences the vertical distribution of labile and recalcitrant carbon in a temperate deciduous forest soil

Ahmed, I. U., Smith, A. R., Jones, D. L. & Godbold, D. L., 26 Jul 2015, In : Forest Ecology and Management. 359, p. 352-360

Root exudate carbon mitigates nitrogen loss in a semi-arid soil

Fisk, L. M., Barton, L., Jones, D. L., Glanville, H. C. & Murphy, D. V., 20 Jun 2015, In : Soil Biology and Biochemistry. 88, p. 380-389

A novel biologically-based approach to evaluating soil phosphorus availability across complex landscapes

Emmett, B., DeLuca, T. H., Glanville, H. C., Harris, M., Emmett, B. A., Pingree, M. R., de Sosa, L. L., Cerda-Moreno, C. & Jones, D. L., 2 Jun 2015, In : Soil Biology and Biochemistry. 88, p. 110-119

Farmers' perceptions of climate change: identifying types

Hyland, J., Jones, D., Parkhill, K. A., Barnes, A. P. & Williams, A., 13 May 2015, In : Agriculture and Human Values. 33, 2, p. 323-339

Dissolved organic nitrogen: A relevant, complementary source of nitrogen for the seagrass *Zostera marina*

Alexandre, A., Hill, P. W., Jones, D. L. & Santos, R., 3 Apr 2015, In : Limnology and Oceanography. 60, 5, p. 1477-1483

Consequential life cycle assessment of biogas, biofuel and biomass energy options within an arable crop rotation

Styles, D., Gibbons, J., Williams, A. P., Dauber, J., Stichnothe, H., Urban, B., Chadwick, D. R. & Jones, D. L., 26 Feb 2015, In : GCB Bioenergy. 7, 6, p. 1305-1320

Living roots magnify the response of soil organic carbon decomposition to temperature in temperate grassland

Hill, P. W., Garnett, M. H., Farrar, J. F., Iqbal, Z., Khalid, M., Soleman, N. & Jones, D. L., 17 Feb 2015, In : Global Change Biology. 21, 3, p. 1368-1375

Priming of the decomposition of ageing soil organic matter: concentration dependence and microbial control

Rousk, J., Hill, P. W. & Jones, D. L., 12 Feb 2015, In : Functional Ecology. 29, 2, p. 285-296

Can macrophyte harvesting from eutrophic water close the loop on nutrient loss from agricultural land?

Quilliam, R. S., van Niekerk, M. A., Chadwick, D. R., Cross, P., Hanley, N., Jones, D. L., Vinten, A. J., Willby, N. & Oliver, D. M., 7 Feb 2015, In : Journal of Environmental Management. 152, p. 210-217

INTEGRATED USE OF BIOCHAR: A TOOL FOR IMPROVING SOIL AND WHEAT QUALITY OF DEGRADED SOIL UNDER WHEAT-MAIZE CROPPING PATTERN

Ali, K., Arif, M., Jan, M. T., Khan, M. J. & Jones, D. L., 1 Feb 2015, In : Pakistan Journal of Botany. 47, 1, p. 233-240

Integrated use of Biochar: A tool for improving soil and wheat quality of degraded soil under wheat-maiza cropping pattern

Ali, K., Arif, M., Jan, M. T., Khan, M. J. & Jones, D. L., 1 Feb 2015, In : Pakistan Journal of Botany. 47, 1, p. 233-240

Uptake of an amino acid (alanine) and its peptide (triplanine) by the saltmarsh halophytes *Salicornia europaea* and *Aster tripolium* and its potential role in ecosystem N cycling and marine aquaculture wastewater treatment

Quinta, R., Hill, P. W., Jones, D. L., Santos, R., Thomas, D. N. & Le Vay, L., Feb 2015, In : Ecological Engineering. 75, p. 145-154

How changing root system architecture can help tackle a reduction in soil phosphate (P) levels for better plant P acquisition

Heppell, J., Talboys, P., Payvandi, S., Zygalkis, K. C., Fliege, J., Withers, P. J. A., Jones, D. & Roose, T., Jan 2015, In : Plant Cell and Environment. 38, 1, p. 118-128

A real-time test of food hazard awareness

Millman, C., Rigby, D., Jones, D. & Edwards-Jones, G., 2015, In : British Food Journal. 117, 8, p. 2112-2128

Challenging the paradigm of nitrogen cycling: no evidence of in situ resource partitioning by coexisting plant species in grasslands of contrasting fertility

Wilkinson, A., Hill, P. W., Vaieretti, M. V., Farrar, J. F., Jones, D. L. & Bardgett, R. D., 23 Dec 2014, In : Ecology and Evolution. 5, 2, p. 275-287

Sediment Composition Influences Spatial Variation in the Abundance of Human Pathogen Indicator Bacteria within an Estuarine Environment

Perkins, T. L., Clements, K., Baas, J. H., Jago, C. F., Jones, D. L., Malham, S. K. & McDonald, J. E., 14 Nov 2014, In : PLoS ONE. 9, 11

Spatial and temporal heterogeneity of bacteria across an intertidal shellfish bed: Implications for regulatory monitoring of faecal indicator organisms

Malham, S., Clements, K., Quilliam, R. S., Jones, D. L., Wilson, J. & Malham, S. K., 14 Nov 2014, In : Science of the Total Environment. 506, p. 1-9

Assessing Soil Nitrogen Availability using Microdialysis-Derived Diffusive Flux Measurements

Shaw, R., Williams, A. & Jones, D., 25 Sep 2014, In : Soil Science Society of America Journal. 78, 5, p. 1797-1803

Phosphate depletion modulates auxin transport in *Triticum aestivum* leading to altered root branching

Talboys, P., Talboys, P. J., Healey, J. R., Withers, P. J. & Jones, D. L., 17 Sep 2014, In : Journal of Experimental Botany. 65, 17, p. 5023-5032

Effects of biochar amendment on the net greenhouse gas emission and greenhouse gas intensity in a Chinese double rice cropping system

Liu, J. Y., Shen, J. L., Li, Y., Su, Y. R., Ge, T., Jones, D. L. & Wu, J. S., 16 Sep 2014, In : European Journal of Soil Biology. 65, p. 30-39

Stoichiometric controls upon low molecular weight carbon decomposition

Creamer, C. A., Jones, D. L., Baldock, J. A. & Farrell, M., 7 Sep 2014, In : Soil Biology and Biochemistry. 79, p. 50-56

Amino acid dynamics across a grassland altitudinal gradient

Farrell, M., Macdonald, L. M., Hill, P. W., Wanniarachchi, S. D., Farrar, J., Bardgett, R. D. & Jones, D. L., 1 Sep 2014, In : Soil Biology and Biochemistry. 76, p. 179-182

Differential Utilization of Dissolved Organic and Inorganic Nitrogen by Wheat (*Triticum Aestivum* L.)

Iqbal, Z., Khalid, M., Soleman, N. & Jones, D. L., 28 Aug 2014, In : Journal of Plant Nutrition. 37, 13, p. 2094-2107

Deciduous woodland exposed to elevated atmospheric CO₂ has species-specific impacts on anecic earthworms

Scullion, J., Smith, A. R., Gwynn-Jones, D., Jones, D. L. & Godbold, D. L., 1 Aug 2014, In : Applied Soil Ecology. 80, p. 84-92

Effectiveness of cooking to reduce Norovirus and infectious F-specific RNA bacteriophage concentrations in *Mytilus edulis*

Flannery, J., Rajko-Nenow, P., Winterbourn, J. B., Malham, S. K. & Jones, D. L., 1 Aug 2014, In : Journal of Applied Microbiology. 117, 2, p. 564-571

A quantitative risk assessment for the safety of carcase storage systems for scrapie infected farms

Adkin, A., Jones, D. L., Eckford, R. L., Edwards-Jones, G. & Williams, A. P., 21 Jul 2014, In : Journal of Applied Microbiology. 117, 4, p. 940-948

Distribution and diversity of members of the bacterial phylum Fibrobacteres in environments where cellulose degradation occurs

Ransom-Jones, E., Jones, D. L., Edwards, A. & McDonald, J. E., 17 Jul 2014, In : Systematic and Applied Microbiology. 37, 7, p. 502-509

Metal contaminated biochar and wood ash negatively affect plant growth and soil quality after land application

Jones, D. L. & Quilliam, R. S., 15 Jul 2014, In : Journal of Hazardous Materials. 276, p. 362-370

Soil microbial organic nitrogen uptake is regulated by carbon availability

Farrell, M., Prendergast-Miller, M., Jones, D. L., Hill, P. W. & Condon, L. M., 9 Jul 2014, In : Soil Biology and Biochemistry. 77, p. 261-267

The interaction of human microbial pathogens, particulate material and nutrients in estuarine environments and their impacts on recreational and shellfish waters

Malham, S. K., Rajko-Nenow, P., Howlett, E., Tuson, K. E., Perkins, T. L., Pallett, D. W., Wang, H., Jago, C. F., Jones, D. L. & McDonald, J. E., 7 Jul 2014, In : Environmental Science: Processes and Impacts. 16, p. 2145-2155

Using the concentration-dependence of respiration arising from glucose addition to estimate in situ concentrations of labile carbon in grassland soil

Rousk, J., Hill, P. W. & Jones, D. L., 3 Jul 2014, In : Soil Biology and Biochemistry. 77, p. 81-88

Feed the Crop Not the Soil: Rethinking Phosphorus Management in the Food Chain

Talboys, P., Withers, P. J., Sylvester-Bradley, R., Jones, D. L., Healey, J. R. & Talboys, P. J., 19 May 2014, In : Environmental Science and Technology. 48, 12, p. 6523-6530

Organic acids alleviate iron chlorosis in chickpea grown on two p-fertilized soils

Sanchez-Rodriguez, A. R., del Campillo, M. C., Torrent, J. & Jones, D., 12 May 2014, In : Journal of Soil Science and Plant Nutrition. 14, 2, p. 290-301

Moss-nitrogen input to boreal forest soils: Tracking 15N in a field experiment

Rousk, K., Jones, D. L. & DeLuca, T. H., 1 May 2014, In : Soil Biology and Biochemistry. 72, p. 100-104

Rapid microbial uptake and mineralization of amino acids and peptides along a grassland productivity gradient

Wilkinson, A., Hill, P. W., Farrar, J. F., Jones, D. L. & Bardgett, R. D., 1 May 2014, In : Soil Biology and Biochemistry. 72, p. 75-83

Contrasting effects of straw and straw-derived biochar amendments on greenhouse gas emissions within double rice cropping systems

Shen, J., Tang, H., Liu, J., Wang, C., Li, Y., Ge, T., Jones, D. L. & Wu, J., 15 Apr 2014, In : Agriculture, Ecosystems and Environment. 188, p. 264-274

Sustainable nutrient management at field, farm and regional level: Soil testing, nutrient budgets and the trade-off between lime application and greenhouse gas emissions

Gibbons, J. M., Williamson, J. C., Williams, A. P., Withers, P. J., Hockley, N., Harris, I. A., Hughes, J. W., Taylor, R. L., Jones, D. L. & Healey, J. R., 15 Apr 2014, In : Agriculture, Ecosystems and Environment. 188, p. 48-56

The resilience of nitrogen fixation in feather moss (*Pleurozium schreberi*)-cyanobacteria associations after a drying and rewetting cycle

Rousk, K., Jones, D. L. & DeLuca, T. H., 1 Apr 2014, In : Plant and Soil. 377, p. 159-167

The carbon footprint of UK sheep production: current knowledge and opportunities for reduction in temperate zones

Jones, A. K., Jones, D. L. & Cross, P., Apr 2014, In : Journal of Agricultural Science. 152, 2, p. 288-308

Evaluation of Dissolved Organic Carbon as a Soil Quality Indicator in National Monitoring Schemes

Jones, D. L., Simfukwe, P., Hill, P. W., Mills, R. T. & Emmett, B., 14 Mar 2014, In : PLoS ONE. 9, 3, e90882.

Evaluating effects of land management on greenhouse gas fluxes and carbon balances in boreo-temperate lowland peatland systems

Haddaway, N. R., Burden, A., Evans, C., Healey, J. R., Jones, D. L., Dalrymple, S. E. & Pullin, A. S., 3 Mar 2014, In : Environmental Evidence. 5, 3

A Mathematical Model of Water and Nutrient Transport in Xylem Vessels of a Wheat Plant

Payvandi, S., Daly, K. R., Jones, D. L., Talboys, P., Zygalkakis, K. C. & Roose, T., 1 Mar 2014, In : Bulletin of Mathematical Biology. 76, 3, p. 566-596

Increased bioavailability of metals in two contrasting agricultural soils treated with waste wood-derived biochar and ash

Lucchini, P., Quilliam, R. S., DeLuca, T. H., Vamerali, T. & Jones, D. L., 1 Mar 2014, In : Environmental Science and Pollution Research. 21, 5, p. 3230-3240

Changes in the physicochemical properties and enzymatic activity of waste during bioreduction of pig carcasses

Gwyther, C. L., Jones, D. L., Gertler, C., Edwards-Jones, G. & Williams, A. P., 28 Feb 2014, In : Environmental Technology. 35, 15, p. 1904-1915

Reply to the Comment by J.P. Gustafsson and D.G. Lumsdon on "Citrate adsorption can decrease soluble phosphate concentration in soils: Results of theoretical modeling" by M. Duputel, N. Devau, M. Brossard, B. Jaillard, D.L. Jones, P. Hinsinger, and F. Gérard

Duputel, M., Deveau, N., Brossard, M., Jaillard, B., Jones, D. L., Hinsinger, P. & Gerard, F., 22 Feb 2014, In : Applied Geochemistry. 46, p. 90-94

Auxin secretion by *Bacillus amyloliquefaciens* FZB42 both stimulates root exudation and limits phosphorus uptake in *Triticum aestivum*

Talboys, P., Talboys, P. J., Owen, D. W., Healey, J. R., Withers, P. J. & Jones, D. L., 21 Feb 2014, In : BMC Plant Biology. 14, p. 51

Does biochar application alter heavy metal dynamics in agricultural soil?

Lucchini, P., Quilliam, R. S., DeLuca, T. H., Vamerali, T. & Jones, D. L., 1 Feb 2014, In : Agriculture, Ecosystems and Environment. 184, p. 149-157

Susceptibility of *Escherichia coli* O157 to chitosan-arginine in beef liquid purge is affected by bacterial cell growth phase

Lahmer, R. A., Jones, D. L., Townsend, S., Baker, S. & Williams, A. P., 1 Feb 2014, In : International Journal of Food Science and Technology. 49, p. 515-520

Perceptions, behaviours and kitchen hygiene of people who have and have not suffered campylobacteriosis: A case control study

Jones, D. L., Millman, C., Rigby, D., Edward-Jones, G., Lighton, L. & Jones, D., 14 Jan 2014, In : Food Control. 41, p. 82-90

The carbon footprint of lamb: Sources of variation and opportunities for mitigation

Jones, A. K., Jones, D. L. & Cross, P., 1 Jan 2014, In : Agricultural Systems. 123, p. 97-107

Exposure to nitrogen does not eliminate N-2 fixation in the feather moss *Pleurozium schreberi* (Brid.) Mitt.

Rousk, K., Jones, D. L. & DeLuca, T. H., 18 Dec 2013, In : Plant and Soil. 374, 1-2, p. 513-521

Investigating the long-term legacy of drought and warming on the soil microbial community across five European shrubland ecosystems

Rousk, J., Smith, A. R. & Jones, D. L., Dec 2013, In : Global Change Biology. 19, 12, p. 3872-3884

Competition between plant and bacterial cells at the microscale regulates the dynamics of nitrogen acquisition in wheat (*Triticum aestivum*)

Jones, D. L., Clode, P. L., Kilburn, M. R., Stockdale, E. A. & Murphy, D. V., 1 Nov 2013, In : New Phytologist. 200, 3, p. 796-807

Life in the 'charosphere' - Does biochar in agricultural soil provide a significant habitat for microorganisms?

Quilliam, R. S., Glanville, H. C., Wade, S. C. & Jones, D. L., 1 Oct 2013, In : Soil Biology and Biochemistry. 65, p. 287-293

Temperature adaptation of bacterial growth and C-14-glucose mineralisation in a laboratory study

Birgander, J., Reischke, S., Jones, D. L. & Rousk, J., 1 Oct 2013, In : Soil Biology and Biochemistry. 65, p. 294-303

Microbial biomass, activity, and community structure in horticultural soils under conventional and organic management strategies

Ge, T., Hunan., C. A. O., Yuan, H., Li, B., Zhu, H., Peng, P., Li, K., Jones, D. L. & Wu, J., 30 Sep 2013, In : European Journal of Soil Biology. 58, p. 122-128

Absence of *Escherichia coli* O157:H7 in sheep and cattle faeces in North Wales

Alhefli, N. A., Adam, H., Jones, D. & Williams, P., 10 Aug 2013, In : Veterinary Record. 173, 6, p. 143-143

Declining reactivation ability of *Escherichia coli* O157 following incubation within soil

Williams, A. P., Gordon, H. E., Jones, D. L., Killham, K., Strachan, N. J. & Forbes, K. J., 1 Aug 2013, In : Soil Biology and Biochemistry. 63, p. 85-88

Epizootic Barnacles Act as Pathogen Reservoirs on Shellfish Beds

Clements, K., Gimenez Noya, L., Jones, D., Wilson, J. & Malham, S. K., Aug 2013, In : Journal of Shellfish Research. 32, 2, p. 533-538

Assessing the Potential for Ion Selective Electrodes and Dual Wavelength UV Spectroscopy as a Rapid on-Farm Measurement of Soil Nitrate Concentration

Shaw, R., Williams, A., Miller, A. & Jones, D., 2 Jul 2013, In : Agriculture. 3, 3, p. 327-341

Moss-cyanobacteria associations as biogenic sources of nitrogen in boreal forest ecosystems

Rousk, K., Jones, D. L. & DeLuca, T. H., 17 Jun 2013, In : Frontiers in Terrestrial Microbiology. 4, p. Article 150

Feather moss nitrogen acquisition across natural fertility gradients in boreal forests

Rousk, K., Rousk, J., Jones, D. L., Zackrisson, O. & DeLuca, T. H., 1 Jun 2013, In : Soil Biology and Biochemistry. 61, p. 86-95

High resolution synchrotron imaging of wheat root hairs growing in soil and image based modelling of phosphate uptake
Keyes, S. D., Daly, K. R., Gostling, N. J., Jones, D. L., Talkboys, P., Pinzer, B. R., Boardman, R., Sinclair, I., Marchant, A. & Roose, T., 1 Jun 2013, In : *New Phytologist*. 198, 4, p. 1023-1029

Bracken fern (*Pteridium aquilinum* L. kuhn) promotes an open nitrogen cycle in heathland soils
DeLuca, T. H., Zewdie, S. A., Zackrisson, O., Healey, J. R. & Jones, D. L., Jun 2013, In : *Plant and Soil*. 367, 1

How significant to plant N nutrition is the direct consumption of soil microbes by roots?
Hill, P. W., Marsden, K. A. & Jones, D. L., 30 May 2013, In : *New Phytologist*. 199, 4, p. 948-955

A systematic review of the effectiveness of liming to mitigate impacts of river acidification on fish and macro-invertebrates
Mant, R. C., Jones, D. L., Reynolds, B., Ormerod, S. J. & Pullin, A. S., 22 May 2013, In : *Environmental Pollution*. 179, p. 285-293

Bioreduction of Sheep Carcasses Effectively Contains and Reduces Pathogen Levels under Operational and Simulated Breakdown Conditions
Golyshin, P., Gwyther, C. L., Jones, D. L., Golyshin, P. N., Edwards-Jones, G., McKillen, J., McNair, I., McDonald, J. E. & Williams, A. P., 21 May 2013, In : *Environmental Science and Technology*. 47, 10, p. 5267-5275

Nutrient stripping: the global disparity between food security and soil nutrient stocks
Jones, D. L., Cross, P., Withers, P., DeLuca, T., Quilliam, R., Harris, I., Chadwick, D. & Edwards-Jones, G., 8 May 2013, In : *Journal of Applied Ecology*. 50, p. 851-862

Biochar application reduces nodulation but increases nitrogenase activity in clover
Quilliam, R. S., DeLuca, T. H. & Jones, D., May 2013, In : *Plant and Soil*. 366, 1-2, p. 83-92

Informing decision making in agricultural greenhouse gas mitigation policy: A Best-Worst Scaling survey of expert and farmer opinion in the sheep industry
Jones, A. K., Jones, D., Edwards-Jones, G. & Cross, P., May 2013, In : *Environmental Science and Policy*. 29, p. 46-56

Is biochar a source or sink for polycyclic aromatic hydrocarbon (PAH) compounds in agricultural soils?
Quilliam, R. S., Rangecroft, S., Emmett, B. A., DeLuca, T. H. & Jones, D. L., 1 Mar 2013, In : *Global Change Biology Bioenergy*. 5, 2, p. 96-103

The role of the natural environment in the emergence of antibiotic resistance in Gram-negative bacteria
Wellington, E. M., Boxall, A. B., Cross, P., Feil, E. J., Gaze, W. H., Hawkey, P. M., Johnson-Rollings, A. S., Jones, D. L., Otten, W., Thomas, C. M. & Williams, A. P., 1 Feb 2013, In : *Lancet Infectious Diseases*. 13, 2, p. 155-165

Grazing effects on microbial community composition, growth and nutrient cycling in salt marsh and sand dune grasslands
Ford, H., Rousk, J., Garbutt, A., Jones, L. & Jones, D. L., 1 Jan 2013, In : *Biology and Fertility of Soils*. 49, 1, p. 89-98

Evaluation of spatial contamination patterns for norovirus and faecal indicator bacteria near to a coastal sewage discharge using *Mytilus edulis* as biosentinels
Winterbourn, J. B., Clements, K., Malham, S., McDonald, J. & Jones, D. L., Jan 2013, *92 McLeod et al (eds.). Proc. 9th Int. Conf. Molluscan Shellfish Safety* . p. 89-92

Oligopeptides Represent a Preferred Source of Organic N Uptake: a global phenomenon?
Farrell, M., Hill, P., DeLuca, T., Roberts, P., Kielland, K., Dahlgren, R., Murphy, D. V., Hobbs, P. J., Bardgett, R. D. & Jones, D. L., Jan 2013, In : *Ecosystems*. 16, 1, p. 133-145

Grazing management in saltmarsh ecosystems drives invertebrate diversity, abundance and functional group structure
Ford, H., Garbutt, A., Jones, L. & Jones, D. L., 2013, In : *Insect Conservation and Diversity*. 6, p. 189-200

Replacing inorganic fertilizer with anaerobic digestate may maintain agricultural productivity at less environmental cost
Walsh, J. J., Jones, D. L., Edwards-Jones, G. & Williams, A. P., 1 Dec 2012, In : Journal of Plant Nutrition and Soil Science. 175, 6, p. 840-845

Temperature and water controls on vegetation emergence, microbial dynamics, and soil carbon and nitrogen fluxes in a high Arctic tundra ecosystem

Glanville, H. C., Hill, P. W., Maccarone, L. D., Golyshin, P. N., Murphy, D. V. & Jones, D. L., 1 Dec 2012, In : Functional Ecology. 26, 6, p. 1366-1380

Amino acid, peptide and protein mineralization dynamics in a taiga forest soil

Jones, D. L. & Kielland, K., Dec 2012, In : Soil Biology and Biochemistry. 55, p. 60-69

Methane, carbon dioxide and nitrous oxide fluxes from a temperate salt marsh: Grazing management does not alter Global Warming Potential

Ford, H., Garbutt, A., Jones, L. & Jones, D., 10 Nov 2012, In : Estuarine, Coastal and Shelf Science. 113, p. 182-191

Impacts of grazing abandonment on ecosystem service provision: Coastal grassland as a model system

Ford, H., Garbutt, A., Jones, D. L. & Jones, L., 1 Nov 2012, In : Agriculture, Ecosystems and Environment. 162, p. 108-115

Nutrient dynamics, microbial growth and weed emergence in biochar amended soil are influenced by time since application and reapplication rate

Quilliam, R. S., Marsden, K. A., Gertler, C., Rousk, J., DeLuca, T. H. & Jones, D. L., 1 Sep 2012, In : Agriculture, Ecosystems and Environment. 158, p. 192-199

Seasonal nitrous oxide emissions from different land uses and their controlling factors in a tropical riparian ecosystem

Kachenchart, B., Jones, D. L., Gajaseeni, N., Edwards-Jones, G. & Limsakul, A., 1 Sep 2012, In : Agriculture, Ecosystems and Environment. 158, p. 15-30

Survival and metabolic activity of lux-marked Escherichia coli O157:H7 in different types of milk

Alhelfi, N. A., Lahmer, R. A., Jones, D. & Williams, A. P., Aug 2012, In : Journal of Dairy Research. 79, 3, p. 257-261

Antibacterial action of chitosan-arginine against Escherichia coli O157 in chicken juice

Lahmer, R. A., Williams, A. P., Townsend, S., Baker, S. & Jones, D. L., 1 Jul 2012, In : Food Control. 26, 1, p. 206-211

Influence of Land Use and Nutrient Flux on Metabolic Activity of E. coli O157 in River Water

Williams, A. P., Quilliam, R. S., Thorn, C. E., Cooper, D., Reynolds, B. & Jones, D. L., 1 Jul 2012, In : Water, Air and Soil Pollution. 223, 6, p. 3077-3083

Discrete functional pools of soil organic matter in a UK grassland soil are differentially affected by temperature and priming

Farrar, J., Boddy, E., Hill, P. W. & Jones, D. L., 1 Jun 2012, In : Soil Biology and Biochemistry. 49, p. 52-60

Clay and biochar amendments decreased inorganic but not dissolved organic nitrogen leaching in soil

Dempster, D. N., Jones, D. L. & Murphy, D. V., 25 May 2012, In : SOIL & TILLAGE RESEARCH. 50, 3, p. 216-221

Bigger may be better in soil N cycling: Does rapid acquisition of small L-peptides by soil microbes dominate fluxes of protein-derived N in soil?

Hill, P. W., Farrell, M. & Jones, D. L., 1 May 2012, In : Soil Biology and Biochemistry. 48, p. 106-112

Fate of pathogens in a simulated bioreduction system for livestock carcasses

Golyshin, P., Gwyther, C. L., Jones, D. L., Golyshin, P. N., Edwards-Jones, G. & Williams, A. P., 1 May 2012, In : Waste Management. 32, 5, p. 933-938

Mineralization of low molecular weight carbon substrates in soil solution under laboratory and field conditions

Glanville, H., Rousk, J., Golyshin, P. & Jones, D. L., 1 May 2012, In : Soil Biology and Biochemistry. 48, p. 88-95

Evidence for host-specificity of culturable fungal root endophytes from the carnivorous plant *Pinguicula vulgaris* (Common Butterwort)

Quilliam, R. S. & Jones, D. L., May 2012, In : Mycological Progress. 11, 2, p. 583-585

Fungal and bacterial growth following the application of slurry and anaerobic digestate of livestock manure to temperate pasture soils

Walsh, J. J., Rousk, J., Edwards-Jones, G., Jones, D. L. & Williams, A. P., 3 Apr 2012, In : Biology and Fertility of Soils. 48, 8, p. 889-897

Comparative Toxicity of Nanoparticulate CuO and ZnO to Soil Bacterial Communities

Rousk, J., Ackermann, K., Curling, S. F. & Jones, D. L., 29 Mar 2012, In : PLoS ONE. 7, 3, p. e34197

Lettuce Cultivar Mediates Both Phyllosphere and Rhizosphere Activity of *Escherichia coli* O157:H7

Quilliam, R., Williams, P. & Jones, D. L., 16 Mar 2012, In : PLoS ONE. 7, 3, p. e33842

Seroprevalence and Risk Factors Associated with *Escherichia coli* O157 in a Farming Population

Quilliam, R. S., Chalmers, R. M., Williams, A. P., Chart, H., Willshaw, G. A., Kench, S. M., Edwards-Jones, G., Evans, J., Thomas, D. R., Salmon, R. L. & Jones, D. L., 1 Mar 2012, In : Zoonoses and Public Health. 59, 2, p. 83-88

The Fibrobacteres: an Important Phylum of Cellulose-Degrading Bacteria

Ransom-Jones, E., Jones, D., McCarthy, A. J. & McDonald, J. E., Feb 2012, In : Microbial Ecology. 63, 2, p. 267-281

Amino acid and peptide dynamics in horticultural soils under conventional and organic management strategies

Ge, T., Yuan, H., Roberts, P., Jones, D. L., Qin, H., Tong, C. & Hunan., C. A. O., 15 Dec 2011, In : Journal of Soils and Sediments. 12, 3, p. 323-333

Soil- and enantiomer-specific metabolism of amino acids and their peptides by Antarctic soil microorganisms

Hill, P. W., Farrell, M., Roberts, P., Farrar, J., Grant, H., Newsham, K. K., Hopkins, D. W., Bardgett, R. D. & Jones, D. L., 1 Dec 2011, In : Soil Biology and Biochemistry. 43, 12, p. 2410-2416

Spatial variation of waterborne *Escherichia coli* - implications for routine water quality monitoring

Quilliam, R. S., Clements, K., Duce, C. E., Cottrill, S. B., Malham, S. K. & Jones, D. L., 1 Dec 2011, In : Journal of Water and Health. 9, 4, p. 734-737

Enhanced zinc uptake by rice through phytosiderophore secretion: a modelling study

Ptashnyk, M., Roose, T., Jones, D. L. & Kirk, G. J. D., Dec 2011, In : Plant Cell and Environment. 34, 12, p. 2038-2046

Enhanced nitrogen deposition exacerbates the negative effect of increasing background ozone in *Dactylis glomerata*, but not *Ranunculus acris*

Wyness, K., Hydrology, C. F. E., Hydrology, C. F. E., University, N. & Jones, D. L., 1 Oct 2011, In : Environmental Pollution. 159, 10, p. 2493-2499

Bacterial salt tolerance is unrelated to soil salinity across an arid agroecosystem salinity gradient

Rousk, J., Elyaagubi, F. K., Jones, D. L. & Godbold, D. L., 1 Sep 2011, In : Soil Biology and Biochemistry. 43, 9, p. 1881-1887

Rapid peptide metabolism: A major component of soil nitrogen cycling?

Farrell, M., Hill, P. W., Wanniarachchi, S. D., Farrar, J., Bardgett, R. D. & Jones, D. L., 1 Sep 2011, In : Global Biogeochemical Cycles. 25, 3, p. 1-11

Carbon and Nitrogen Dynamics in an Oxisol as Affected by Liming and Crop Residues under No-Till

Garbuio, F. J., Jones, D., Alleoni, L. R. F., Murphy, D. V. & Caires, E. F., Sep 2011, In : Soil Science Society of America Journal. 75, 5, p. 1723-1730

Soil classification provides a poor indicator of carbon turnover rates in soil

Simfukwe, P., Hill, P. W., Emmett, B. A. & Jones, D. L., 1 Aug 2011, In : Soil Biology and Biochemistry. 43, 8, p. 1688-1696

Soil respiration across three contrasting ecosystem types: comparison of two portable IRGA systems

Mills, R., Glanville, H., McGovern, S., Emmett, B. & Jones, D. L., 1 Aug 2011, In : Journal of Plant Nutrition and Soil Science. 174, 4, p. 532-535

Effects of salinity, DOM and metals on the fate and microbial toxicology of propetamphos formulations in river and estuarine sediment

Garcia-Ortega, S., Holliman, P. J. & Jones, D., May 2011, In : Chemosphere. 83, 8, p. 1117-1123

Acquisition and Assimilation of Nitrogen as Peptide-Bound and D-Enantiomers of Amino Acids by Wheat

Hill, P. W., Quilliam, R. S., DeLuca, T. H., Farrar, J., Farrell, M., Roberts, P., Newsham, K. K., Hopkins, D. W., Bardgett, R. D. & Jones, D. L., 26 Apr 2011, In : PLoS ONE. 6, 4, p. e19220

Seasonal variation in soluble soil carbon and nitrogen across a grassland productivity gradient.

Farrell, M., Hill, P. W., Farrar, J. F., Bardgett, R. D. & Jones, D. L., 1 Apr 2011, In : Soil Biology and Biochemistry. 43, 4, p. 835-844

The environmental and biosecurity characteristics of livestock carcass disposal methods: a review.

Gwyther, C. L., Williams, A. P., Golyshin, P. N., Edwards-Jones, G. & Jones, D. L., 1 Apr 2011, In : Waste Management. 31, 4, p. 767-778

Vascular plant success in a warming Antarctic may be due to efficient nitrogen acquisition.

Hill, P. W., Farrar, J. F., Roberts, P., Marrell, M., Grant, H., Newsham, K. K., Hopkins, D. W., Bardgett, R. D. & Jones, D. L., 1 Apr 2011, In : Nature Climate Change. 1, 1, p. 50-53

Evaluation of near infrared spectroscopy and software sensor methods for determination of total alkalinity in anaerobic digesters

Ward, A. J., Hobbs, P. J., Holliman, P. J. & Jones, D. L., 1 Mar 2011, In : Bioresource technology . 102, 5, p. 4083-90 8 p.

Unearthing human pathogens at the agricultural–environment interface: A review of current methods for the detection of Escherichia coli O157 in freshwater ecosystems

Quilliam, R. S., Williams, A. P., Avery, L. M., Malham, S. & Jones, D. L., 1 Mar 2011, In : Agriculture, Ecosystems and Environment. 140, 3-4, p. 354-360

Alleviation of both water and nutrient limitations is necessary to accelerate ecological restoration of waste rock tips.

Williamson, J. C., Rowe, E. C., Hill, P. W., Nason, M. A., Jones, D. L. & Healey, J. R., Mar 2011, In : Restoration Ecology. 19, 2, p. 194-204

Cattle grazing drives nitrogen and carbon cycling in a temperate salt marsh

Olsen, Y., Dausse, A., Garbutt, A., Ford, H., Thomas, D. N. & Jones, D. L., Mar 2011, In : Soil Biology and Biochemistry. 43, 3, p. 531-541

Modelling Nutrient Uptake by Individual Hyphae of Arbuscular Mycorrhizal Fungi: Temporal and Spatial Scales for an Experimental Design

Schnepf, A., Jones, D. & Roose, T., 12 Jan 2011, In : Bulletin of Mathematical Biology. 73, 9, p. 2175-2200

Development of Microbial Diversity and Functional Potential in Bauxite Residue Sand under Rehabilitation

Australia, U. O., Phillips, I. R., Jones, D. L. & Australia, U. O., 6 Jan 2011, In : Restoration Ecology. 19, p. 78-87

Can a mesotrophic grassland community be restored on a post-industrial sandy site with compost made from waste materials?

Tandy, S., Wallace, H. L., Jones, D. L., Nason, M. A., Williamson, J. C. & Healey, J. R., Jan 2011, In : Biological Conservation. 144, 1, p. 500-510

Loss of low molecular weight dissolved organic carbon (DOC) and nitrogen (DON) in H₂O and 0.5 M K₂SO₄ soil extracts

Rousk, J. & Jones, D. L., 1 Dec 2010, In : Soil Biology and Biochemistry. 42, 12, p. 2331-2335

Use of organic amendments for remediation: turning waste to good use

Jones, D. L. & Healey, J. R., 1 Dec 2010, In : Elements. 6, 6, p. 369-375

Estimating the component of soil respiration not dependent on living plant roots: comparison of the indirect y-intercept regression approach and direct bare plot approach.

Koerber, G. R., Hill, P. W., Edwards-Jones, G. & Jones, D. L., 1 Oct 2010, In : Soil Biology and Biochemistry. 42, 10, p. 1835-1841

Sporulation of arbuscular mycorrhizal fungi in organic-rich patches following host excision

Quilliam, R. S., Hodge, A. & Jones, D. L., 1 Oct 2010, In : Applied Soil Ecology. 46, 2, p. 247-250

How do draining and re-wetting affect carbon stores and greenhouse gas fluxes in peat soils?

Bussell, J., Jones, D. L., Healey, J. R. & Pullin, A. S., 25 Sep 2010, The Collaboration for Environmental Evidence.

Greenhouse gas sink or health risk? Assessing the fate of polycyclic aromatic hydrocarbons (PAHs) in biochar within the plant-soil system

Rangecroft, S., DeLuca, T., Emmett, B. & Jones, D., 22 Aug 2010, In : Abstracts of papers - American Chemical Society. 240

Food waste composting: Its use as a peat replacement.

Farrell, M. & Jones, D. L., 1 Aug 2010, In : Waste Management. 30, 8-9, p. 1495-1501

FT-IR as an alternative method for measuring chemical properties during composting

Tandy, S., Healey, J. R., Nason, M. A., Williamson, J. C., Jones, D. L. & Thain, S. C., 1 Jul 2010, In : Bioresource Technology. 101, 14, p. 5431-5436

Fate of prions in soil: degradation of recombinant prion in aqueous extracts from soil and casts of two earthworm species.

Golyshin, P., Nechitaylo, T. Y., Timmis, K. N., Byzov, B. A., Kurakov, A. V., Belogolova, E., Jones, D. L., Ferrer, M. & Golyshin, P. N., 1 Jul 2010, In : Soil Biology and Biochemistry. 42, 7, p. 1168-1171

Application of nanoscale secondary ion mass spectrometry to plant cell research

Kilburn, M. R., Clode, P. L., Cliff, J. B., Stockdale, E. A., Herrmann, A. M., Murphy, D. V. & Jones, D. L., 1 Jun 2010, In : Plant Signaling and Behavior. 5, 6, p. 760-2 3 p.

Fungal root endophytes of the carnivorous plant *Drosera rotundifolia*.

Quilliam, R. S. & Jones, D. L., 1 Jun 2010, In : Mycorrhiza. 20, 5, p. 341-348

Microbiological quality of chicken wings damaged on the farm or in the processing plant.

Malpass, M. C., Williams, A. P., Jones, D. L. & Omed, H. M., 1 Jun 2010, In : Food Microbiology. 27, 4, p. 521-525

Dynamics of nitrogen speciation in horticultural soils in suburbs of Shanghai, China.

Ge, T. D., Huang, D. F., Roberts, P., Jones, D. L. & Song, S. W., 1 Apr 2010, In : Pedosphere. 20, 2, p. 261-272

Effect of the earthworms *lumbricus terrestris* and *Aporrectodea caliginosa* on bacterial diversity in soil.

Nechitaylo, T. Y., Yakimov, M. M., Godinho, M., Timmis, K. N., Belogolova, E., Byzov, B. A., Kurakov, A. V., Jones, D. L. & Golyshin, P. N., 1 Apr 2010, In : *Microbial Ecology*. 59, 3, p. 574-587

Use of composts in the remediation of heavy metal contaminated soil.

Farrell, M. & Jones, D. L., 15 Mar 2010, In : *Journal of Hazardous Materials*. 175, 1-3, p. 575-582

Modification of fertility of soil materials for restoration of acid grassland habitat.

Farrell, M., Healey, J. R., Godbold, D. L., Nason, M. A., Tandy, S. & Jones, D. L., 12 Mar 2010, In : *Restoration Ecology*. 19, 4, p. 509-519

Microbial diversity and activity are increased by compost amendment of metal-contaminated soil.

Farrell, M., Griffith, G. W., Hobbs, P. J., Perkins, W. T. & Jones, D. L., 1 Jan 2010, In : *Fems Microbiology Ecology*. 71, 1, p. 94-105

Migration of heavy metals in soil as influenced by compost amendments.

Farrell, M., Perkins, W. T., Hobbs, P. J., Griffith, G. W. & Jones, D. L., 1 Jan 2010, In : *Environmental Pollution*. 158, 1, p. 55-64

How do draining and re-wetting affect carbon stores and greenhouse gas fluxes in peat soils? Systematic Review

Bussell, J., Jones, D., Healey, J. & Pullin, A., 2010, In : *Environmental Evidence*. SR49.

In situ mapping of nutrient uptake in the rhizosphere using nanoscale secondary ion mass spectrometry.

Clode, P. L., Kilburn, M. R., Jones, D. L., Stockdale, E. A., Cliff, J. B., Herrmann, A. K. & Murphy, D. V., 1 Dec 2009, In : *Plant Physiology*. 151, 4, p. 1751-1757

Protein breakdown represents a major bottleneck in nitrogen cycling in grassland soils

Jan, M. T., Roberts, P., Tonheim, S. K. & Jones, D., 1 Nov 2009, In : *Soil Biology and Biochemistry*. 41, 11, p. 2272-2282

Critical evaluation of municipal solid waste composting and potential compost markets.

Farrell, M. & Jones, D. L., 1 Oct 2009, In : *Bioresource Technology*. 100, 19, p. 4301-4310

Despite high uptake efficiency, non-mycorrhizal *Rumex acetosella* increases available phosphorous in the rhizosphere soil, whereas *Viscaria vulgaris*, *Plantago lanceolata* and *Achillea millefolium* does not.

Sandberg, J., Jones, D. L. & Fransson, A. M., 1 Oct 2009, In : *Nordic Journal of Botany*. 27, 5, p. 444-448

Heavy metal contamination of a mixed waste compost: metal speciation and fate.

Farrell, M. & Jones, D. L., 1 Oct 2009, In : *Bioresource Technology*. 100, 19, p. 4423-4432

Amino acids as a nitrogen source for tomato seedlings: the use of dual-labeled (¹³C, ¹⁵N) glycine to test for direct uptake by tomato seedlings.

Ge, T., Song, S., Roberts, P., Jones, D. L., Huang, D. & Iwasaki, K., 1 Sep 2009, In : *Environmental and Experimental Botany*. 66, 3, p. 357-361

Heavy metal fractionation during the co-composting of biosolids, deinking paper fibre and green waste.

Tandy, S., Healey, J. R., Nason, M. A., Williamson, J. & Jones, D. L., 1 Sep 2009, In : *Bioresource Technology*. 100, 18, p. 4220-4226

In-vessel bioreduction provides an effective storage and pre-treatment method for livestock carcasses prior to final disposal

Edwards-Jones, G., Jones, D. & Williams, A., 1 Sep 2009, In : *Bioresource Technology*. 100, p. 4032-4040 9 p.

Substrate mineralization studies in the laboratory show different microbial C partitioning dynamics than in the field.

Oburger, E. & Jones, D. L., 1 Sep 2009, In : *Soil Biology and Biochemistry*. 41, 9, p. 1951-1956

RHIZOSPHERE 2 International Conference, Montpellier, August 2007

Jones, D., Sep 2009, In : Soil Biology and Biochemistry. 41, 9, p. 1767-1767

Carbon flow in the rhizosphere: carbon trading at the soil-root interface.

Jones, D. L., Nguyen, C. & Finlay, R. D., 1 Aug 2009, In : Plant and Soil. 321, 1-2, p. 5-33

Carbon-to-nitrogen ration is a poor predictor of low molecular weight organic nitrogen mineralization in soil

Roberts, P., Stockdale, R., Khalid, M., Iqbal, Z. & Jones, D. L., 1 Aug 2009, In : Soil Biology and Biochemistry. 41, 8, p. 1750-1752

Vegetation cover regulates the quantity, quality and temporal dynamics of dissolved organic carbon and nitrogen in Antarctic soils.

Roberts, P., Newsham, K. K., Bardgett, R. D., Farrar, J. & Jones, D. L., 1 Jul 2009, In : Polar Biology. 32, 7, p. 999-1008

Vulnerability of exporting nations to the development of a carbon label in the United Kingdom

Edwards-Jones, G., Plassmann, K., York, E., Hounsome, B., Jones, D. & Mila I Canals, L., 1 Jun 2009, In : Environmental Science and Policy. 12, 4, p. 479-490

Contaminated land clean-up using composted wastes and impacts of VOCs on land.

Williamson, J. C., Akinola, M., Nason, M. A., Tandy, S., Healey, J. R. & Jones, D. L., 1 May 2009, In : Waste Management. 29, 5, p. 1772-1778

Heat and lime-treatment as effective control methods for E.coli 0157:H7 in organic wastes

Avery, L. M., Williams, P., Killham, K. & Jones, D. L., 1 May 2009, In : Bioresource Technology. 100, 10, p. 2692-2698

Soil characteristics below Erythrina poeppigiana in organic and conventional Costa Rican coffee plantations

Payan, F., Jones, D. L., Beer, J. & Marmand, J. M., 1 May 2009, In : Agroforestry Systems. 76, 1, p. 81-93

Bioremediation of Poly-Aromatic Hydrocarbon (PAH)-Contaminated Soil by Composting.

Loick, N., Hobbs, P. J., Hale, M. D. & Jones, D. L., 1 Apr 2009, In : Critical Reviews in Environmental Science and Technology. 39, 4, p. 271-332

Geographical variation in carbon dioxide fluxes from soils in agro-ecosystems and its implications for life-cycle assessment.

Koerber, G. R., Edwards-Jones, G., Hill, P. W., Mila I Canals, L., Nyeko, P., York, E. H. & Jones, D. L., 1 Apr 2009, In : Journal of Applied Ecology. 46, 2, p. 306-314

Organic acid mediated nutrient extraction efficiency in three calcareous soils.

Khademi, Z., Jones, D. L., Malakouti, M. J., Asadi, F. & Ardebili, M., 31 Mar 2009, In : Australian Journal of Soil Research. 47, 2, p. 213-220

Soil organic nitrogen mineralization across a global latitudinal gradient.

Jones, D. L., Kielland, K., Sinclair, F. L., Dahlgren, R. A., Newsham, K. K., Farrar, J. F. & Murphy, D. V., 24 Mar 2009, In : Global Biogeochemical Cycles. 23, p. GB1016

Interactive effects of organic acids in the rhizosphere.

Oburger, E., Kirk, G. J., Wenzel, W. W., Puschenreiter, M. & Jones, D. L., 1 Mar 2009, In : Soil Biology and Biochemistry. 41, 3, p. 449-457

Whole tree harvesting can reduce second rotation forest productivity

Walmsley, J. D., Jones, D. L., Reynolds, B., Price, M. H. & Healey, J. R., 10 Feb 2009, In : Forest Ecology and Management. 257, 3, p. 1104-1111

Remediation of metal polluted mine soil with compost: Co-composting versus incorporation.

Tandy, S., Healey, J. R., Nason, M., Williamson, J. & Jones, D., 1 Feb 2009, In : Environmental Pollution. 157, 2, p. 690-697

Resilience of soil microbial activity and of amino acid dynamics to the removal of plant carbon inputs during winter.

Avramides, E. J., Christou, M. & Jones, D. L., 1 Feb 2009, In : Scientia Agricola. 66, 1, p. 132-135

Urine enhances the leaching and persistence of estrogens in soils.

Lucas, S. D. & Jones, D. L., 1 Feb 2009, In : Soil Biology and Biochemistry. 41, 2, p. 236-242

Assessing the addition of mineral processing waste to green waste-derived compost: an agronomic, environmental and economic appraisal.

Jones, D. L., Chesworth, S., Khalid, M. & Iqbal, Z., 1 Jan 2009, In : Bioresource Technology. 100, 2, p. 770-777

Dissolved organic carbon and nitrogen dynamics in temperate coniferous forest plantations.

Jones, D. L., Hughes, L. T., Murphy, D. V. & Healey, J. R., 1 Dec 2008, In : European Journal of Soil Science. 59, 6, p. 1038-1048

Moisture, sawdust, and bleach regulate the persistence of Escherichia coli O157:H7 on floor surfaces in butcher shops

Williams, A. P., Avery, L. M., Killham, K. & Jones, D. L., 1 Dec 2008, In : Food Control. 19, 12, p. 1119-1125

Leaching of bioluminescent Escherichia coli O157:H7 from sheep and cattle faeces during simulated rainstorm events

Williams, A. P., Gordon, H., Jones, D. L., Strachan, N. J., Avery, L. M. & Killham, K., 1 Nov 2008, In : Journal of Applied Microbiology. 105, 5, p. 1452-1460

Optimisation of the anaerobic digestion of agricultural resources.

Ward, A. J., Hobbs, P. J., Holliman, P. J. & Jones, D. L., 1 Nov 2008, In : Bioresource Technology. 99, 17, p. 7928-7940

Persistence and metabolic activity of Escherichia coli O157:H7 in farm animal faeces

Williams, A. P., McGregor, K. A., Killham, K. & Jones, D. L., 1 Oct 2008, In : FEMS Microbiology Letters. 287, 2, p. 168-173

The rhizosphere: complex by design

Jones, D. & Hinsinger, P., 20 Sep 2008, In : Plant and Soil. 312, 1-2, p. 1-6

Regulation of amino acid biodegradation in soil as affected by depth.

Kemmitt, S. J., Wright, D., Murphy, D. V. & Jones, D. L., 1 Aug 2008, In : Biology and Fertility of Soils. 44, 7, p. 933-941

Influence of inorganic and organic nitrogen on enzymes of nitrogen assimilation and growth in tomato seedlings

Ge, T-D., Roberts, P., Jones, D. L., Yang, D-D., Song, S-W., Lu-Bo, Ming-Ding & Huang, D-F., 1 Jul 2008, In : JOURNAL OF HORTICULTURAL SCIENCE & BIOTECHNOLOGY. 83, 4, p. 513-519

Turnover of low molecular weight dissolved organic C (DOC) and microbial C exhibit different temperature sensitivities in Arctic tundra soils.

Boddy, E., Roberts, P., Hill, P., Farrar, J. & Jones, D., 1 Jul 2008, In : Soil Biology and Biochemistry. 40, 7, p. 1557-1566

Critical evaluation of methods for determining protein in soil solution.

Roberts, P. & Jones, D. L., 1 Jun 2008, In : Soil Biology and Biochemistry. 40, 6, p. 1485-1495

Deinking paper fibre application to agricultural land: soil quality enhancer or copper polluter?

Tandy, S., Williamson, J. C., Nason, M. A., Healey, J. R. & Jones, D. L., 1 Jun 2008, In : Soil Use and Management. 24, 2, p. 217-220

Real-time PCR and microscopy: are the two methods measuring the same unit of arbuscular mycorrhizal fungal abundance?

Gamper, H. A., Young, J. P. W., Hodge, A. & Jones, D. L., 1 May 2008, In : Fungal genetics and biology : FG & B. 45, 5, p. 581-96 16 p.

Testing the assertion that 'local food is best': the challenges of an evidence-based approach

Edwards-Jones, G., Canals, L. M., Hounsome, N., Truninger, M., Koerber, G., Hounsome, B., Cross, P., York, E., Hospido, A., Plassmann, K., Harris, I. M., Edwards, R. T., Day, G., Tomos, D., Cowell, S. J. & Jones, D., 1 May 2008, In : Trends in Food Science and Technology. 19, 5, p. 265-274

Decoupling of microbial glucose uptake and mineralization in soil.

Hill, P. W., Farrar, J. F. & Jones, D. L., 1 Mar 2008, In : Soil Biology and Biochemistry. 40, 3, p. 616-624

Survival of Escherichia coli, O157 : H7 in waters from lakes, rivers, puddles and animal-drinking troughs.

Avery, L. M., Williams, P., Killham, K. & Jones, D. L., 25 Jan 2008, In : Science of the Total Environment. 389, 2-3, p. 378-385

Bioreduction of fallen stock – An evaluation of in-vessel bioreduction for containment of sheep prior to disposal: Final report

Williams, A. P., Edwards-Jones, G. & Jones, D. L., 1 Jan 2008, 2008 ed. Unknown.

Dissolved organic nitrogen and mechanisms of its uptake by plants in agricultural systems.

Jones, D. L., Farrar, J. F., Macdonald, A. J., Kemmitt, S. J., Murphy, D. V., Ma, L. (ed.), Ahuja, L. R. (ed.) & Bruulsema, T. (ed.), 1 Jan 2008, *Quantifying and Understanding Plant Nitrogen Uptake for Systems Modeling*. 2008 ed. CRC Press, p. 95-126

How do draining and re-wetting affect carbon stores and greenhouse gas fluxes in peat soils?

Bussell, J. A., Jones, D. L., Healey, J. R. & Pullin, A. S., 1 Jan 2008.

Free amino sugar reactions in soil in relation to soil carbon and nitrogen cycling.

Roberts, P., Bol, R. & Jones, D. L., 1 Dec 2007, In : Soil Biology and Biochemistry. 39, 12, p. 3081-3092

Yield responses of wheat (*Triticum aestivum*) to vermicompost applications

Roberts, P., Edwards-Jones, G. & Jones, D. L., 1 Dec 2007, In : Compost Science and Utilization. 15, 1, p. 6-15

Evaluating the growth characteristics of lettuce in vermicompost and green waste compost

Ali, M., Griffiths, A. J., Williams, K. P. & Jones, D. L., 1 Nov 2007, In : European Journal of Soil Biology. 43, p. S316-S319

In-vessel co-composting of green waste with biosolids and paper waste.

Roberts, P., Edwards-Jones, G. & Jones, D. L., 1 Oct 2007, In : Compost Science and Utilization. 15, 4, p. 272-282

In-vessel cocomposting of green waste with biosolids and paper waste.

Roberts, P., Edwards-Jones, G. & Jones, D. L., 1 Oct 2007, In : Compost Science and Utilization. 15, 4, p. 272-282

Dynamics of size-density fractions of soil organic matter following the addition of tree litter to organic coffee farms.

Payan, F., Jones, D. L. & Beer, J., 15 Sep 2007, In : Geoderma. 141, 1-2, p. 15-22

Yield and vitamin C content of tomatoes grown in vermicomposted wastes.

Roberts, P., Jones, D. & Edwards-Jones, G., 15 Aug 2007, In : Journal of the Science of Food and Agriculture. 87, 10, p. 1957-1963

Microbial response time to sugar and amino acid additions to soil.

Jones, D. L. & Murphy, D. V., 1 Aug 2007, In : Soil Biology and Biochemistry. 39, 8, p. 2178-2182

Responses of common pot grown flower species to commercial plant growth media substituted with vermicomposts

Roberts, P., Edwards, C. A., Edwards-Jones, G. & Jones, D. L., 1 Jul 2007, In : Compost Science and Utilization. 15, 3, p. 159-166

Responses of pot-grown flower species to commercial plant media substituted with vermicompost.

Roberts, P., Edwards, C. A., Edwards-Jones, G. & Jones, D. L., 1 Jul 2007, In : Compost Science and Utilization. 15, 3, p. 159-166

Phosphatase activity does not limit the microbial use of low molecular weight organic-P substrates in soil.

Fransson, A. M. & Jones, D. L., 1 May 2007, In : Soil Biology and Biochemistry. 39, 5, p. 1213-1217

Fast turnover of low molecular weight components of the dissolved organic carbon pool of temperate grassland field soils.

Boddy, E., Hill, P. W., Farrar, J. F. & Jones, D. L., 1 Apr 2007, In : Soil Biology and Biochemistry. 39, 4, p. 827-835

Persistence, dissipation, and activity of Escherichia coli O157:H7 within sand and seawater environments.

Williams, A. P., Avery, L. M., Killham, K. & Jones, D. L., 1 Apr 2007, In : Fems Microbiology Ecology. 60, 1, p. 24-32

Response of root respiration and root exudation to alterations in root C supply and demand in wheat

Hill, P., Kuzyakov, Y., Jones, D. L. & Farrar, J., 1 Feb 2007, In : Plant and Soil. 291, 1-2, p. 131-141

Survival of Escherichia coli O157:H7 in the rhizosphere of maize grown in waste-amended soil.

Williams, A. P., Avery, L. M., Killham, K. & Jones, D. L., 1 Feb 2007, In : Journal of Applied Microbiology. 102, 2, p. 319-326

The fate of photosynthetically-fixed carbon in Lolium perenne grassland as modified by elevated CO₂ and sward management

Hill, P. W., Marshall, C., Williams, G. G., Blum, H., Harmens, H., Jones, D. L. & Farrar, J. F., 5 Jan 2007, In : New Phytologist. 173, 4, p. 766-777

Grassland plants affect dissolved organic carbon and nitrogen dynamics in soil.

Khalid, M., Soleman, N. & Jones, D. L., 1 Jan 2007, In : Soil Biology and Biochemistry. 39, 1, p. 378-381

Root exudate components change litter decomposition in a simulated rhizosphere depending on temperature.

Kuzyakov, Y., Hill, P. W. & Jones, D., 1 Jan 2007, In : Plant and Soil. 290, 1-2, p. 293-305

Using organic wastes and composts to remediate and restore land: best practice manual

Nason, M. A., Williamson, J., Tandy, S., Christou, M., Jones, D. L. & Healey, J. R., 1 Jan 2007, Unknown.

Earthworms as vectors of Escherichia coli O157:H7 in soil and vermicomposts.

Williams, A. P., Roberts, P., Avery, L. M., Killham, K. & Jones, D. L., 1 Oct 2006, In : Fems Microbiology Ecology. 58, 1, p. 54-64

Fertilizer application during primary succession changes the structure of plant and herbivore communities.

Rowe, E. C., Healey, J. R., Edwards-Jones, G., Hills, J., Howells, M. & Jones, D. L., 1 Sep 2006, In : Biological Conservation. 131, 4, p. 510-522

Overview of Biomass Energy in Wales, UK

Walmsley, J. D., Jones, D. L. & Healey, J. R., 1 Sep 2006.

Recycling of Wood Ash to Forests in the UK

Walmsley, J. D., Jones, D. L. & Healey, J. R., 1 Sep 2006.

Recycling of Wood Ash to Forests: Application to PAWS Sites

Pitman, R., Walmsley, J. D., Healey, J. R. & Jones, D. A., 1 Sep 2006.

Recycling of Wood Ash to Forests: Application to PAWS Sites

Pitman, R., Walmsley, J. D., Healey, J. R. & Jones, D. L., 1 Sep 2006.

Toxicology and fate of Pestanal® and commercial propetamphos formulations in river and estuarine sediment

Garcia-Ortega, S., Holliman, P. J. & Jones, D. L., 1 Aug 2006, In : Science of the Total Environment. 366, 2-3, p. 826-836

Behaviour of the endocrine-disrupting chemical nonylphenol in soil: assessing the risk associated with spreading contaminated waste to land.

Roberts, P., Roberts, J. P. & Jones, D. L., 1 Jul 2006, In : Soil Biology and Biochemistry. 38, 7, p. 1812-1822

Spatial coordination of aluminium uptake, production of reactive oxygen species, callose production and wall rigidification in maize roots.

Jones, D. L., Blancaflor, E. B., Kochian, L. V. & Gilroy, S., 1 Jul 2006, In : Plant, Cell and Environment. 29, 7, p. 1309-1318

Temporal and spatial dynamics of soil solution C and N concentrations during Lolium perenne L. sward establishment and the effects of elevated CO₂ and N additions

Hill, P., Jones, D., Marshall, C. & Farrar, J. F., 1 Jun 2006, In : Soil Biology and Biochemistry. 38, 6, p. 1290-1297

Recycling of wood ash to forests in North Wales, UK.

Walmsley, J. D., Healey, J. R. & Jones, D. L., 30 May 2006, p. 347-351.

Recycling of wood ash to forests in North Wales, UK

Walmsley, J. D., Healey, J. R. & Jones, D. L., 1 May 2006.

pH regulation of carbon and nitrogen dynamics in two agricultural soils.

Kemmitt, S. J., Wright, D., Goulding, K. W. & Jones, D. L., 1 May 2006, In : Soil Biology and Biochemistry. 38, 5, p. 898-911

Potential pitfalls in the quantitative molecular detection of Escherichia coli O157 : H7 in environmental matrices

Artz, R. R. E., Avery, L. M., Jones, D. L. & Killham, K., May 2006, In : Canadian Journal of Microbiology. 52, 5, p. 482-488

Pathogen survival patterns in waste-derived composts destined for land restoration

Williamson, J. C., Holmberg, J., Nason, M. A., Tandy, S., Jones, R., Healey, J. R. & Jones, D. L., 1 Jan 2006, p. 733-738.

Pathogen survival patterns in waste-derived composts destined for land restoration

Williamson, J. C., Holmberg, J., Nason, M. A., Tandy, S., Jones, R., Healey, J. R., Jones, D. L., Vegh, B. (ed.) & Royle, J. (ed.), 1 Jan 2006, *Proceedings of Waste 2006: sustainable waste and resource management, Stratford-upon-Avon, Warwickshire*. 2006 ed. The Waste Conference Limited, p. 733-738

Physical and chemical characteristics of composted wastes can be altered to make them suitable for large scale habitat creation

Nason, M. A., Tandy, S., Williamson, J. C., Farrell, M., Healey, J. R., Jones, D. L., Vegh, B. (ed.) & Royle, J. (ed.), 1 Jan 2006, *Proceedings of Waste 2006: sustainable waste and resource management, Stratford-upon-Avon, Warwickshire*. 2006 ed. The Waste Conference Limited, p. 739-744

Recycling of wood ash to forests in North Wales, UK.

Walmsley, J. D., Healey, J. R. & Jones, D. L., 1 Jan 2006, *Proceedings of Second World Bioenergy Conference, 30 May-1 June 2006, Jönköping, Sweden*. 2006 ed. Swedish Bioenergy Association, p. 347-351

Oxalate and ferricrocin exudation by the extramatrical mycelium of an ectomycorrhizal fungus in symbiosis with *Pinus sylvestris*.

Van Hees, P. A., Rosling, A., Essen, S., Godbold, D. L., Jones, D. L. & Finlay, R. D., 25 Nov 2005, In : *New Phytologist*. 169, 2, p. 367-377

Organic acid behaviour in a calcareous soil: implications for rhizosphere nutrient cycling.

Strom, L., Owen, A. G., Godbold, D. L. & Jones, D. L., 1 Nov 2005, In : *Soil Biology and Biochemistry*. 37, 11, p. 2046-2054

Interference by amino acids during the determination of N-15 ammonium in soil.

Herrmann, A., Willett, V. B., Stockdale, E. A. & Jones, D. L., 1 Sep 2005, In : *Soil Biology and Biochemistry*. 37, 9, p. 1747-1750

Dissolved organic nitrogen in contrasting agricultural ecosystems.

Christou, M., Avramides, E. J., Roberts, J. P. & Jones, D. L., 1 Aug 2005, In : *Soil Biology and Biochemistry*. 37, 8, p. 1560-1563

Rapid intrinsic rates of amino acid biodegradation in soils are unaffected by agricultural management strategy.

Jones, D., Kemmitt, S. J., Wright, D., Cuttle, S. P., Bol, R. & Edwards, A. C., 1 Jul 2005, In : *Soil Biology and Biochemistry*. 37, 7, p. 1267-1275

Initial tree establishment on blocky quarry waste ameliorated with hydrogel or slate processing fines

Rowe, E. C., Williamson, J. C., Jones, D. L., Holliman, P. J. & Healey, J. R., 1 May 2005, In : *Journal of Environmental Quality*. 34, 3, p. 994-1003

Soil acidification used as a management strategy to reduce nitrate losses from agricultural land

Kemmitt, S. J., Wright, D. & Jones, D. L., 1 May 2005, In : *Soil Biology and Biochemistry*. 37, 5, p. 867-875

Organic acid concentrations in soil solution: effects of young coniferous trees and ectomycorrhizal fungi.

Jentschke, G. W., Van Hees, P. A., Jones, D. L., Jentschke, G. & Godbold, D. L., 1 Apr 2005, In : *Soil Biology and Biochemistry*. 37, 4, p. 771-776

Dissolved organic nitrogen uptake by plants - an important N uptake pathway?

Jones, D. L., Healey, J. R., Willett, V. B., Farrar, J. F. & Hodge, A., 1 Mar 2005, In : *Soil Biology and Biochemistry*. 37, 3, p. 413-423

Modelling low molecular weight organic acid dynamics in forest soils.

Van Hees, P. A., Jones, D. L., Nyberg, L., Holmstrom, S. J., Godbold, D. L. & Lundstrom, U. S., 1 Mar 2005, In : *Soil Biology and Biochemistry*. 37, 3, p. 517-531

Persistence of *Escherichia coli* O157 on farm surfaces under different environmental conditions.

Williams, A. P., Avery, L. M., Killham, K. & Jones, D. L., 18 Feb 2005, In : *Journal of Applied Microbiology*. 98, 5, p. 1075-1083

Model and field studies of the degradation of cross-linked polyacrylamide gels used during the revegetation of slate waste

Holliman, P., Clark, J., Williamson, J. & Jones, D. L., 5 Jan 2005, In : *Science of the Total Environment*. 336, 1-3, p. 13-24

Survival of *E. coli* O157:H7 in organic wastes destined for land application.

Avery, L. M., Killham, K. & Jones, D. L., 1 Jan 2005, In : *Journal of Applied Microbiology*. 98, 4, p. 814-822

The carbon we do not see - the impact of low molecular weight compounds on carbon dynamics and respiration in forest soils: a review

Van Hees, P. A., Jones, D. L., Finlay, R., Godbold, D. & Lundstrom, U. L., 1 Jan 2005, In : *Soil Biology and Biochemistry*. 37, 1, p. 1-13

Carbon sequestration: Do N inputs and elevated atmospheric CO₂ alter soil solution chemistry and respiratory C losses?
Hill, P. W., Marshall, C., Harmens, H., Jones, D. L. & Farrar, J. F., 1 Dec 2004, In : *Water, Air and Soil Pollution: Focus*. 4, 6, p. 177-186

Escherichia coli O157 survival following the surface and sub-surface application of human pathogen contaminated organic waste to soil.

Avery, L. M., Hill, P. W., Killham, K. & Jones, D. L., 1 Dec 2004, In : *Soil Biology and Biochemistry*. 36, 12, p. 2101-2103

Rapid amino acid cycling in arctic and antarctic soils.

Jones, D. L., Farrar, J. F. & Newsham, K. K., 1 Dec 2004, In : *Water, Air and Soil Pollution: Focus*. 4, 6, p. 169-175

Cytological and enzymatic responses to aluminium stress in root tips of Norway spruce seedlings.

Nagy, N. E., Dalen, L. S., Jones, D. L., Swensen, B., Fossdal, C. G. & Eldhuset, T. D., 1 Sep 2004, In : *New Phytologist*. 163, 3, p. 595-607

Plant and mycorrhizal regulation of rhizodeposition.

Jones, D. L., Hodge, A. & Kuzyakov, Y., 1 Sep 2004, In : *New Phytologist*. 163, 3, p. 459-480

Bacterioplankton production in freshwater Antarctic lakes.

Laybourn-Parry, J., Henshaw, T., Jones, D. L. & Quayle, W., 1 Jun 2004, In : *Freshwater Biology*. 49, 6, p. 735-744

Role of dissolved organic nitrogen (DON) in soil N cycling in grassland soils

Jones, D. L., Shannon, D., Murphy, D. V. & Farrar, J., 1 May 2004, In : *Soil Biology and Biochemistry*. 36, 5, p. 749-756

A global assessment using PCR techniques of mycorrhizal fungal populations colonising *Tithonia diversifolia*

Sharrock, R. A., Sinclair, F., Gliddon, C. J., Rao, I. M., Barrios, E., Mustonen, P. J., Smithson, P., Jones, D. & Godbold, D., 1 Apr 2004, In : *Mycorrhiza*. 14, 2, p. 103-109

Mobilization of aluminium, iron and silicon by *Picea abies* and ectomycorrhizas in a forest soil.

Jentschke, G. W., Van Hees, P. A., Jones, D. L., Jentschke, G. & Godbold, D. L., 1 Mar 2004, In : *European Journal of Soil Science*. 55, 1, p. 101-111

Aluminium complexation suppresses citrate uptake by acid forest soil microorganisms.

Fransson, A. M., Vinogradoff, S., Godbold, D. L., Van Hees, P. A. & Jones, D. L., 1 Feb 2004, In : *Soil Biology and Biochemistry*. 36, 2, p. 353-357

Temporal dynamics of carbon partitioning and rhizodeposition in wheat.

Dilkes, N. B., Jones, D. L. & Farrar, J. F., 1 Feb 2004, In : *Plant Physiology*. 134, 2, p. 706-715

Dissolved organic nitrogen concentration in two grassland soils.

Jones, D. L., Farrar, J. F., Willett, V. B., Hatch, D. J. (ed.), Chadwick, D. R., Jarvis, S. C. & Roker, J. A. (ed.), 1 Jan 2004, *Controlling Nitrogen Flows and Losses*. 2004 ed. Wageningen Academic Publishers, p. 441-443

Dissolved organic nitrogen regulation in freshwaters.

Willett, V. B., Reynolds, B. A., Stevens, P. A., Ormerod, S. J. & Jones, D. L., 1 Jan 2004, In : *Journal of Environmental Quality*. 33, 1, p. 201-209

Matching supply with demand.

Murphy, D. V., Stockdale, E. A., Hoyle, F. C., Smith, J. U., Fillery, I. R., Milton, N., Cookson, W. R., Brussaard, L., Jones, D. L., Hatch, D. J. (ed.), Chadwick, D. R., Jarvis, S. C. & Roker, J. A. (ed.), 1 Jan 2004, *Controlling nitrogen flows and losses*. 2004 ed. Wageningen Academic Publishers, p. 101-112

Missing N: is the solution in dissolved N?

Macdonald, A. J., Jones, D. L., Hatch, D. J. (ed.), Chadwick, D. R., Jarvis, S. C. (ed.) & Roker, J. A. (ed.), 1 Jan 2004, *Controlling nitrogen flows and losses*. 2004 ed. Wageningen Academic Publishers, p. 600-605

Impact of ectomycorrhizas on the concentration and biodegradation of simple organic acids in a forest soil

Van Hees, P. A., Godbold, D., Jentschke, G. W. & Jones, D., 1 Dec 2003, In : *European Journal of Soil Science*. 54, 4, p. 697-706

Low molecular weight organic acid adsorption in forest soils: effects on soil solution concentrations and biodegradation rates.

Van Hees, P. A., Vinogradoff, S. I., Edwards, A. C., Godbold, D. L. & Jones, D. L., 1 Aug 2003, In : *Soil Biology and Biochemistry*. 35, 8, p. 1015-1026

Biodegradation of low molecular weight organic acids in a limed forest soil.

Van Hees, P. A., Jones, D. L. & Godbold, D. L., 1 Jul 2003, In : *Water, Air and Soil Pollution: Focus*. 3, 4, p. 121-144

Effects of acidification and its mitigation with lime and wood ash on forest soil processes in southern Sweden: a joint multidisciplinary study.

Lundstrom, U. S., Bain, D. C., Taylor, A. F., Van Hees, P. A., Geibe, C. E., Holmstrom, S. J., Melkerud, P. A., Finlay, R., Jones, D. L., Nyberg, L., Gustafsson, J. P., Riise, G. & Strand, L. T., 1 Jul 2003, In : *Water, Air and Soil Pollution: Focus*. 3, 4, p. 167-188

A stable bioluminescent construct of Escherichia coli O157:H7 for hazard assessments of long-term survival in the environment.

Ritchie, J. M., Campbell, G. R., Shepherd, J., Beaton, V., Jones, D. L., Killham, K. & Artz, R. R., 1 Jun 2003, In : *Applied and Environmental Microbiology*. 69, 6, p. 3359-3367

How roots control the flux of carbon to the rhizosphere

Farrar, J. F., Hawes, M., Jones, D. L. & Lindow, S., 1 Apr 2003, In : *Ecology*. 84, 4, p. 827-837

Aluminium toxicity.

Jones, D. L., Ryan, P. R., Thomas, B. (ed.), Murphy, D. (ed.) & Murray, B. (ed.), 1 Jan 2003, *Encyclopaedia of applied plant science*. 2003 ed. Academic Press, p. 656-664

Associative nitrogen fixation and root exudation - What is theoretically possible in the rhizosphere?

Jones, D. L., Farrar, J. F. & Giller, K. E., 1 Jan 2003, In : *Symbiosis*. 35, 1-3, p. 19-38

Organic acid behavior in soils: misconceptions and knowledge gaps.

Jones, D. L., Dennis, P. G., Owen, A. G. & Van Hees, P. A., 1 Jan 2003, In : *Plant and Soil*. 248, 1-2, p. 31-41

Plants and the environment: land reclamation and remediation: Principles and practice

Jones, D. L., Rowe, E. C., Thomas, B. (ed.), Murphy, D. (ed.) & Murray, B. (ed.), 1 Jan 2003, *Encyclopaedia of applied plant science*. 2003 ed. Academic Press, p. 741-748

Restoring habitats of high conservation value after quarrying: best practice manual

Williamson, J. C., Rowe, E. C., Rendell, T., Healey, J. R., Jones, D. L., Holliman, P. J. & Nason, M. A., 1 Jan 2003, University of Wales, Bangor, Institute of Environmental Science.

Rhizosphere methods in agroforestry research.

Jones, D. L., Schroth, G. (ed.) & Sinclair, F., 1 Jan 2003, *Trees: crops and soil fertility: concepts and research methods*. 2003 ed. CAB International, p. 289-301

Soil functioning in natural and planted woodlands on slate waste

Williamson, J. C., Jones, D. L., Rowe, E. C., Healey, J. R., Bardgett, R., Hobbs, P., Moore, H. M. (ed.), Fox, H. R. (ed.) & Elliott, S. (ed.), 1 Jan 2003, *Land reclamation*. 2003 ed. Swets & Zeitlinger, p. 315-318

Soil functioning in natural and planted woodlands on slate waste

Williamson, J. C., Jones, D. L., Rowe, E. C., Healey, J. R., Bardgett, R., Hobbs, P., Moore, H. M. (ed.), Fox, H. R. (ed.) & Elliott, S. (ed.), 1 Jan 2003, *Land Reclamation: Extending the Boundaries*. 2003 ed. Taylor & Francis, p. 315-318

The control of carbon acquisition by and growth of roots.

Farrar, J. F., Jones, D. L., De Kroon, H. (ed.) & Visser, E. J. (ed.), 1 Jan 2003, *Root Ecology*. 2003 ed. Springer-Verlag Berlin and Heidelberg GmbH, p. 91-124

Waste water treatment.

Jones, D. L., Freeman, C., Thomas, B. (ed.), Murphy, D. (ed.) & Murray, B. (ed.), 1 Jan 2003, *Encyclopaedia of applied plant science*. 2003 ed. Academic Press, p. 772-781

Simple method to enable the high resolution determination of total free amino acids in soil solutions and soil extracts

Jones, D. L., Owen, A. G. & Farrar, J. F., 1 Dec 2002, In : *Soil Biology and Biochemistry*. 34, 12, p. 1893-1902

Biodegradation of low molecular weight organic acids in coniferous forest podzolic soils.

Van Hees, P. A., Jones, D. L. & Godbold, D. L., 1 Sep 2002, In : *Soil Biology and Biochemistry*. 34, 9, p. 1261-1272

Re-creating a woodland and heathland on slate waste in Wales

Williamson, J. C., Rowe, E. C., Rendell, T., Healey, J. R., Jones, D. L., Holliman, P. J. & Nason, M. A., 9 Jun 2002, p. 449-458.

Organic acid mediated P mobilization in the rhizosphere and uptake by maize roots.

Strom, L., Owen, A. G., Godbold, D. L. & Jones, D. L., 1 May 2002, In : *Soil Biology and Biochemistry*. 34, 5, p. 703-710

Soil amino acid turnover dominates the nitrogen flux in permafrost-dominated taiga forest soils.

Jones, D. L. & Kielland, K., 1 Feb 2002, In : *Soil Biology and Biochemistry*. 34, 2, p. 209-219

Human enteric pathogens in the farming environment.

Jones, D. L., Campbell, G., Kaspar, C. W., Haygarth, P. M. (ed.) & Jarvis, S. C., 1 Jan 2002, *Agriculture: hydrology and water quality*. 2002 ed. CAB International, p. 133-154

Sustainable post-industrial land restoration and recreation of high biodiversity natural habitats

Williamson, J. C., Rowe, E. C., Healey, J. R., Jones, D. L., Holliman, P. J. & Nason, M. A., 1 Jan 2002.

Changes in water holding capacity of fine slate waste during decomposition of added plant litters

Nason, M., Farrar, J. F., Healey, J. F., Jones, D. L., Williamson, J. C. & Rowe, E. C., 18 Dec 2001.

Soil functioning in natural and restored systems on slate waste.

Williamson, J. C., Jones, D. L., Bardgett, R. D., Hobbs, P. J., Rowe, E. C., Nason, M. A. & Healey, J. R., 18 Dec 2001.

Water and nutrient limitations to tree establishment on slate waste.

Rowe, E. C., Williamson, J. C., Jones, D. L. & Healey, J. R., 18 Dec 2001.

Organic acid behaviour in a calcareous soil: sorption reactions and biodegradation rates.

Strom, L., Owen, A. G., Godbold, D. L. & Jones, D. L., 1 Dec 2001, In : *Soil Biology and Biochemistry*. 33, 15, p. 2125-2133

Soil microbial community patterns that are related to the history and intensity of grazing in sub-montane ecosystems.
Bardgett, R. D., Jones, A. C., Jones, D. L., Kemmitt, S. J., Cook, R. & Hobbs, P. J., 1 Oct 2001, In : Soil Biology and Biochemistry. 33, 12-13, p. 1653-1664

Aluminium effects on organic acid mineralization in a Norway spruce forest soil.

Jones, D. L., Eldhuset, T., De Wit, H. A. & Swensen, B., 1 Jul 2001, In : Soil Biology and Biochemistry. 33, 9, p. 1259-1267

Control of amino acid mineralization and microbial metabolism by temperature.

Vinolas, L. C., Vallejo, V. R. & Jones, D. L., 1 Jun 2001, In : Soil Biology and Biochemistry. 33, 7-8, p. 1137-1140

Function and mechanism of organic anion exudation from plant roots.

Ryan, P. R., Delhaize, E. & Jones, D. L., 1 Jun 2001, In : Annual Review of Plant Physiology and Plant Molecular Biology. 52, p. 527-560

Competition for amino acids between wheat roots and rhizosphere microorganisms and the role of amino acids in plant N acquisition.

Owen, A. G. & Jones, D. L., 1 Apr 2001, In : Soil Biology and Biochemistry. 33, 4-5, p. 651-657

Procedure for determining the biodegradation of radiolabeled substrates in a calcareous soil

Strom, L., Godbold, D. L. & Jones, D. L., 1 Mar 2001, In : Soil Science Society of America Journal. 65, 2, p. 347-351

Kinetics of soil microbial uptake of free amino acids.

Vinolas, L. C., Healey, J. R. & Jones, D. L., 1 Jan 2001, In : Biology and Fertility of Soils. 33, 1, p. 67-74

Organic acid root-tip tissue concentration in *Brachiaria decumbens* and *Brachiaria ruziziensis*

Grundy, S. P., Jones, D. L., Godbold, D. L., Horst, W. W. (ed.), Sattelmacher, B. (ed.), Schmidhalter, U. (ed.), Schubert, S. (ed.), Von Wiren, N. (ed.), Wittenmayer, L. (ed.), Schenk, M. K. (ed.), Burkert, A. (ed.), Claassen, N. (ed.) & Flessa, H. (ed.), 1 Jan 2001, *Plant nutrition - food security and sustainability of agro-ecosystems through applied and basic research..* 2001 ed. Kluwer Academic Publishers, p. 506-507

The control of carbon acquisition by roots

Farrar, J. F. & Jones, D. L., 1 Jul 2000, In : New Phytologist. 147, 1, p. 43-53

Awards

Do agricultural microplastics undermine food security and sustainable development in developing countries?

Jones, D.

NERC: £940,590.00

Projects

80835 - Flexible Integrated Systems (FLEXIS)

Jones, D.

1/10/16 → 31/03/21

A Strategic Conservation Assessment

Jones, D.

25/06/07 → 29/02/08

Agri-Environment Monitoring and Services Contract Lot 3 (Studentship)

Jones, D.

1/06/09 → 1/08/12

Axis II (Welsh Government GMEP)

Jones, D.
1/02/15 → 31/01/17

Axis II: Agri-environment monitoring

Jones, D.
1/09/12 → 1/08/19

BBSRC-Brazil (FAPESP) joint funding of research

Jones, D.
1/01/16 → 1/08/19

Biodiversity and Ecosystem Services in semi-natural systems

Jones, D.
1/11/08 → 31/10/11

Bioreduction: An alternative strategy for disposing of fallen stock in the UK livestock sector (studentship)

Jones, D.
1/11/08 → 6/03/12

Boreal Nitrogen Gap: Impacts of nitrogen fixation in forest ecosystems

Jones, D.
1/03/12 → 22/09/15

Breaking Barriers to Soil testing on Pastures (Breaking - STEP)

Jones, D.
1/01/21 → 31/07/21

Breaking the Barriers to Soil Testing on Pastures (Breaking-STEP)

Jones, D.
1/01/19 → 31/01/21

Challenging The Paradigm For Plant-Micro

Jones, D.
1/06/08 → 1/08/19

Characterising the impact of dissolved organic N, P, C

Jones, D.
1/09/13 → 31/05/17

Characterising the impact of dissolved organic N, P, C

Jones, D.
1/04/14 → 1/08/19

Climate smart strategy for grassland designs

Jones, D.
1/09/15 → 1/08/19

Covid 19 monitoring in Wales

Jones, D.
1/07/20 → 28/02/21

Dissolved Nitrogen Cycling In Antarctic

Jones, D.
28/07/05 → 15/07/08

Do agricultural microplastics undermine food security and sustainable development in developing countries?

Jones, D.

4/01/21 → 3/02/25

Ecological tipping points in agricultural systems

Jones, D.

1/05/20 → 31/07/20

Esf - Phd 04/07 - Mon Afon

Jones, D.

4/10/04 → 22/02/08

INCREASE - An Integrated Network on Climate Research Activities on Shrubland Ecosystems (at negotiation stage: GA no 227628 - changing from subcontract to full partner)

Jones, D.

1/10/09 → 25/08/16

INCREASE: Effects of climate change on carbon balance and plant biodiversity

Jones, D.

1/10/09 → 30/09/12

Intas-Plant Genotypes Kazakhstan Flora

Jones, D.

1/08/01 → 18/08/10

KESS II MRes with ICL Speciality Fertilisers- BUK2195

Jones, D.

1/01/20 → 1/04/21

KESS II PhD upgrade Project with Centre for Ecology and Hydrology

Jones, D.

1/10/15 → 28/02/20

KESS II Phd with NRM Laboratories- BUK2119

Jones, D.

1/04/18 → 1/11/21

KESS II Phd with NRW- BUK268

Jones, D.

1/10/16 → 30/08/20

Legacy effects of extreme flood events on soil quality and ecosystem functioning

Jones, D.

1/03/14 → 1/08/19

Life cycle assessment of bioreduction systems

Jones, D.

1/06/09 → 31/08/11

Managing agricultural systems on lowland peat for decreased greenhouse gas emissions whilst maintaining agricultural productivity

Jones, D.

1/02/19 → 30/04/22

Modelling Integrative Behaviour Of Soil

Jones, D.

1/11/05 → 1/08/19

NASPA

Jones, D.

1/12/17 → 31/07/21

NITROZONE

Jones, D.

16/02/17 → 4/09/20

National COVID-19 Wastewater Epidemiology Surveillance Programme (N-WESP)

Jones, D.

6/07/20 → 5/12/21

New Pathways Of Plant Nutrition & Resous

Jones, D.

6/05/08 → 1/08/19

New approaches for the quantitative detection of human pathogenic viruses.

Jones, D.

1/05/15 → 1/08/19

ONS Wastewater Surveillance project England and Wales: COVID-19

Jones, D.

1/07/20 → 30/04/21

Optimization of foliar fertilisers

Jones, D.

1/10/18 → 1/08/19

Proposal writing fellowship - Kata Farkas

Jones, D.

1/06/18 → 31/08/18

Quantifying Arbuscular Mycorrhizal

Jones, D.

26/03/07 → 13/08/10

ReBALAN:CE-Recycling Biomass to Agricultural LAND

Jones, D.

1/04/13 → 1/11/13

Real-time in situ sensing of soil nitrogen status to promote enhanced nitrogen use efficiency in agricultural systems

Jones, D.

1/05/17 → 31/01/21

Real-time in situ sensing of soil nitrogen status to promote enhanced nitrogen use efficiency in agricultural systems

Jones, D.

1/01/21 → 31/10/21

Restoring soil quality through re-integration of leys and sheep into arable rotations

Jones, D.
1/04/19 → 30/11/22

SEFLOS - Securing long-term ecosystem function in lowland organic soils. Defra Contribution

Jones, D.
1/08/18 → 1/08/19

SEREN (Lot 2) Carbon Soil Sequestration: Long term impacts

Jones, D.
1/08/11 → 31/08/15

Saving our lowland peatlands

Jones, D.
1/10/17 → 30/04/21

Securing long-term ecosystem function in lowland organic soils (SEFLOS)

Jones, D.
1/04/17 → 1/08/19

Short circuits in nitrogen cycle regulate ecosystem in Antarctic

Jones, D.
1/12/11 → 15/08/16

Soil Classification

Jones, D.
1/09/09 → 15/02/11

The role of rhizodeposition in carbon sequestration and nutrient mobilization

Jones, D.
20/10/15 → 30/08/20

Uk China Network -Visit To Uk Dr Li-Youg

Jones, D.
1/01/01 → 31/07/09

Understanding the Natural Environment through Internet of Things Technology

Jones, D.
1/07/14 → 27/05/17

Understanding the role of root, mycorrhizal and microbial turnover in forests

Jones, D.
1/11/14 → 1/08/19

Use of real-time in situ nitrate sensors

Jones, D.
1/12/11 → 30/07/15

Use of wastewater to evaluate the incidence of COVID-19

Jones, D.
15/04/20 → 14/04/21

Wales Waste And Resource Research Centre

Jones, D.
1/11/06 → 31/07/09

Water management and mitigation of greenhouse gas emissions from agricultural lowland peatlands

Jones, D.

1/10/20 → 31/10/21

Welsh Government Land Use and Climate Change Group Report

Jones, D.

1/03/14 → 10/06/16

Welsh Soil C Monitoring Options

Jones, D.

1/07/09 → 17/02/14

on-site sewage treatment systems in rural catchments

Jones, D.

1/10/13 → 20/02/17

Impacts

Enhanced carbon footprinting of food products

Gareth Edwards-Jones (Participant), Paul Cross (Participant), David Jones (Participant) & Ian Harris (Participant)