

## Ritaskrá starfsmanna Landbúnaðarháskóla Íslands 2018

Ritrýnt efni úr flokkum A2.1, A2.2, A2.3, A3.1, A3.2, A3.3, A4.1, A4.2, A4.3 og A5.1  
í matskerfi opinberra háskóla

**Aegisdottir, H.H. & B. Orradottir**, 2018. Land and quality education — building the capacities of the change agents of the future. In: *A better world*, volume 4. Tudor Rose, Leicester, UK.  
<http://digital.tudor-rose.co.uk/a-better-world-vol-4/20/>

**Aradottir, A. L.** & G. Halldorsson 2018. Colonization of woodland species during restoration: seed or safe site limitation? *Restoration Ecology* 26:S73-S83.  
<https://onlinelibrary.wiley.com/doi/pdf/10.1111/rec.12645>

**Barrio, I.C.**, D.S. Hik, J. Thórsson, K. Svavarsdóttir, B. Marteinsdóttir, I.S. Jónsdóttir, 2018. The sheep in wolf's clothing? Recognizing threats for land degradation in Iceland using state-and-transition models. *Land Degradation and Development* 29(6):1714-1725  
<https://onlinelibrary.wiley.com/doi/full/10.1002/ldr.2978>

Bjarnadóttir, B., **B.D. Sigurðsson** og B.E. Guðleifsson, 2018. Áhrif eitrunar á útbreiðslu skógarkerfils. *Náttúrufræðingurinn* 88:37-48

Bjornsson, H., **Gudmundsson. Th.** & **Thorvaldsson, G.**, 2018. Áhrif nituráburðar á uppskeru af grasi og nýting hans í langtímatilraun á snauðri sandjörð. Skrína 2018, 4. árg.

Bjornsson, H., **Gudmundsson. Th.** & **Thorvaldsson, G.**, 2018. Brennisteinn í langtímatilraunum á Geitasandi. Skrína 2018, 4. árg.

**Gudmundsson. Th.**, Bjornsson, H. & **Thorvaldsson, G.**, 2018. Langtímaáhrif nituráburðar á kolefni, nitur og auðleyst næringarefni í snauðri sandjörð. Skrína 2018, 4. árg.

Holmstrup M., B.K. Ehlers, S. Slotsbo, K. Ilieva-Makulec, **B.D. Sigurdsson**, N. Leblans, J. Ellers and M. Berg, 2018. Functional diversity of Collembola is reduced in soils subjected to short-term, but not long-term, geothermal warming. *Functional Ecology* 32(5): 1304-1316  
<https://www.researchgate.net/publication/323043261>

Kavan, J., **P. Dagsson-Waldhauserova**, J.-B. Renard, K. Laska, K. Ambrozova, 2018. Aerosol concentrations in relationship to local atmospheric conditions on James Ross Island, Antarctica. *Frontiers in Earth Science* 6:207, 207-223  
<https://www.frontiersin.org/articles/10.3389/feart.2018.00207/abstract>

Liimatainen, M., C. Voigt, P.J. Martikainen, J. Hytönen, K. Regina, **H. Óskarsson**, M. Maljanen, 2018. Factors controlling nitrous oxide emissions from managed northern peat soils with low carbon to nitrogen ratio. *Soil Biology and Biochemistry* 122: 186-195  
<https://www.researchgate.net/publication/324835609>

Maljanen, M., H. R. Bhattachari, C. Biasi & **B.D. Sigurdsson**, 2018. The effect of elevated soil temperatures on the production of carbon dioxide ( $\text{CO}_2$ ), methane ( $\text{CH}_4$ ), nitrous oxide ( $\text{N}_2\text{O}$ ), nitric oxide (NO) and nitrous acid (HONO) from volcanic soils in southern Iceland. *Icelandic Agricultural Sciences* 31, 11-22 <http://ias.is/wp-content/uploads/2018/09/The-effect-of-geothermal-soil-warming-on-the-production-of-carbon.pdf>

Marañón-Jiménez S., J.L. Soong, N.I. Leblans, **B.D. Sigurdsson**, J. Peñuelas, A. Richter, D. Asensio, E. Fransen, I.A. Janssens, 2018. Geothermally warmed soils reveal persistent increases in the

respiratory costs of soil microbes contributing to substantial C losses. *Biogeochemistry* 138:244-260 <https://link.springer.com/article/10.1007%2Fs10533-018-0443-0>

Moroni, B., O. Arnalds, P. Dagsson-Waldhauserová, S. Crocchianti, R. Vivani and D. Cappelletti 2018. Mineralogical and Chemical Records of Icelandic Dust Sources Upon Ny-Ålesund (Svalbard Islands). *Frontiers in Earth Science*, vol. 6 article 187 <https://www.frontiersin.org/articles/10.3389/feart.2018.00187/full>

Parts K., L. Tedersoo, A. Schindlbacher, B.D. Sigurdsson, N. Leblans, E. Oddsdottir, W. Borken, I. Ostonen, 2018. Acclimation of fine root systems to soil warming: comparison of an experimental setup and a natural soil temperature gradient. *Ecosystems* <https://doi.org/10.1007/s10021-018-0280-y>

Radujković, D., E. Verbruggen, B.D. Sigurdsson, N.I. W. Leblans, I. Janssens, S. Dauwe, S. Vicca, J.T. Weedon, 2018. Prolonged exposure does not increase soil microbial community response to warming along geothermal gradients. *FEMS Microbiology Ecology* 94(2): fix174. <https://doi.org/10.1093/femsec/fix174>

Rosenstock N., M. Ellström, E. Oddsdottir, B.D. Sigurdsson & H. Wallander, 2018. Carbon sequestration and community composition of ectomycorrhizal fungi across a geothermal warming gradient in an Icelandic spruce forest. *Fungal Ecology* <https://doi.org/10.1016/j.funeco.2018.05.010>

Soininen, E. M., I. Barrio, J.U. Jepsen, D. Ehrich, V.T. Ravalainen, J.D.M. Speed, 2018. Evidence of effects of herbivory on Arctic vegetation: a systematic map protocol. *Environmental Evidence* 7(1):23 <https://munin.uit.no/handle/10037/13894>

Steingrímsdóttir, L., G. Thorkelsson, E. Eythórsdóttir, 2018. Food, Nutrition, and Health in Iceland. In: V. Andersen, E. Bar, G. Wirtanen (editors) Nutritional and Health Aspects of Food in Nordic Countries. Elsevier Traditional and Ethnic Food Series. Academic Press, London UK, pp 145-177. <https://www.elsevier.com/books/nutritional-and-health-aspects-of-food-in-nordic-countries/andersen/978-0-12-809416-7>

Vicca S., B.D. Stocker, S. Reed, W.R. Wieder, M. Bahn, P.A. Fay, I.A. Janssens, H. Lambers, J. Peñuelas, S. Piao, K.T. Rebel, J. Sardans, B.D. Sigurdsson, K. Van Sundert, Y.-P. Wang, S. Zaehle, P. Ciais, 2018. Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. *Environmental Research Letters* 13(12): 125006. <https://doi.org/10.1088/1748-9326/aaeae7>

Walker T.W.N., C. Kaiser, F. Strasser, N.I. W. Leblans, D. Woebken, I.A. Janssens, B.D. Sigurdsson & A. Richter, 2018. Microbial temperature sensitivity and biomass change explain soil carbon loss with warming. *Nature Climate Change* 8: 885-889 <https://www.nature.com/articles/s41558-018-0259-x>

Xu, S.-S., L. Gao, X.-L. Xie, Y.-L. Ren, Z.-Q. Shen, F. Wang, M. Shen, E. Eythorsdottir, J. H. Hallsson, T. Kiseleva, J. Kantanen and M.-H. Li, 2018. Genome-wide association analyses highlights the potential for different genetic mechanisms for litter size among sheep breeds. *Frontiers in Genetics* <https://www.frontiersin.org/articles/10.3389/fgene.2018.00118/full>