



LI-8100

Publications List

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- Abideen, Z., H.-W. Koyro, B. Huchzermeyer, G. U. L. Bilquees and M. A. Khan (2020). "Impact of a biochar or a biochar-compost mixture on water relation, nutrient uptake and photosynthesis of *Phragmites karka*." *Pedosphere* 30(4): 466-477.
- Ahirwal, J. and S. K. Maiti (2018). Carbon sequestration and Soil CO₂ flux in reclaimed coal mine lands from India. *Bio-Geotechnologies for Mine Site Rehabilitation*, Elsevier: 371-392.
- Ahirwal, J. and S. K. Maiti (2018). "CARBON SEQUESTRATION AND SOIL COAL CO MINE 2 FLUX LANDS IN RECLAIMED FROM INDIA." *Bio-Geotechnologies for Mine Site Rehabilitation*: 371.
- Aimé, J., M. Allenbach, C. Bourgeois, A. Léopold, A. Jacotot, T. Van Vinh, N. T. Nho, L. Della Patrona and C. Marchand (2018). "Variability of CO₂ emissions during the rearing cycle of a semi-intensive shrimp farm in a mangrove coastal zone (New Caledonia)." *Marine pollution bulletin* 129(1): 194-206.
- Ali, S., Y. Xu, I. Ahmad, Q. Jia, H. Fangyuan, I. Daur, T. Wei, T. Cai, X. Ren and P. Zhang (2018). "The ridge furrow cropping technique indirectly improves seed filling endogenous hormonal changes and winter wheat production under simulated rainfall conditions." *Agricultural Water Management* 204: 138-148.
- Ali, S., Y. Xu, X. Ma, I. Ahmad, Q. Jia, M. Akmal, Z. Hussain, M. Arif, T. Cai and J. Zhang (2019). "Deficit irrigation strategies to improve winter wheat productivity and regulating root growth under different planting patterns." *Agricultural Water Management* 219: 1-11.
- Alibert, C. (2020). Contrôles physiques, chimiques et biologiques des flux de gaz à l'interface sol-atmosphère PhD Thesis, Université Paris sciences et lettres.
- Alice, C. E., S. Clément, B. Benoit, V. den Berge Joke, B. Daniel, B. Laëtitia, S. J. Larned, A. Nicola, P. Josep and J. I. August "Automatic high-frequency measurements of full soil greenhouse gas fluxes in a tropical forest."
- Alice, C. E., S. Clément, B. Benoit, V. den Berge Joke, B. Daniel, B. Laëtitia, S. J. Larned, A. Nicola, P. Josep and J. I. August "Automatic high-frequency measurements of full soil greenhouse gas fluxes in a tropical forest."
- Ameur, D., F. Zehetner, S. Johnen, L. Jöchlinger, G. Pardeller, B. Wimmer, F. Rosner, F. Faber, G. Dersch and S. Zechmeister-Boltenstern (2018). "Activated biochar alters activities of carbon and nitrogen acquiring soil enzymes." *Pedobiologia* 69: 1-10.
- Ava, M., D. A. Polosukhina, S. V. Verkhovets and P. Asa (2018). "Influence of precipitation on CO₂ soil emission in pine forests of the Central Siberia boreal zone."
- Aydin, M., R. S. Pacaldo and T. A. Volk (2018). "Soil respiration in shrub willow (*Salix x dasyclados*) biomass crop increased on the third year after removal." *International Journal of Global Warming* 15(1): 54-66.
- Aydin, M., R. S. Pacaldo and T. A. Volk (2018). "Soil respiration in shrub willow (*Salix x dasyclados*) biomass crop increased on the third year after removal." *International Journal of Global Warming* 15(1): 54-66.
- Aydin, M., R. S. Pacaldo and T. A. Volk (2018). "Soil respiration in shrub willow (*Salix x dasyclados*) biomass crop increased on the third year after removal." *International Journal of Global Warming* 15(1): 54-66.
- Bai, W., G. Wang, J. Xi, Y. Liu and P. Yin (2019). "Short-term responses of ecosystem respiration to warming and nitrogen addition in an alpine swamp meadow." *European Journal of Soil Biology* 92: 16-23.
- Bao, T., R. Zhu, X. Li, W. Ye and X. Cheng (2018). "Effects of multiple environmental variables on tundra ecosystem respiration in maritime Antarctica." *Scientific reports* 8(1): 1-12.
- Bao, T., R. Zhu, X. Li, W. Ye and X. Cheng (2018). "Effects of multiple environmental variables on tundra ecosystem respiration in maritime Antarctica." *Scientific reports* 8(1): 1-12.
- Barba, J., R. Poyatos and R. Vargas (2019). "Automated measurements of greenhouse gases fluxes from tree

- stems and soils: magnitudes, patterns and drivers." *Scientific reports* 9(1): 1-13.
- Barron-Gafford, G. A., J. F. Knowles, E. P. Sanchez-Cañete, R. L. Minor, E. Lee, L. Sutter, N. Tran, P. Murphy, E. P. Hamerlynck and P. Kumar (2021). "Hydraulic redistribution buffers climate variability and regulates grass-tree interactions in a semiarid riparian savanna." *Ecohydrology* 14(3): e2271.
- Barron-Gafford, G. A., J. F. Knowles, E. P. Sanchez-Cañete, R. L. Minor, E. Lee, L. Sutter, N. Tran, P. Murphy, E. P. Hamerlynck and P. Kumar (2021). "Hydraulic redistribution buffers climate variability and regulates grass-tree interactions in a semiarid riparian savanna." *Ecohydrology* 14(3): e2271.
- Batalla, J. D. K. (2018). Tracing organic carbon cycling in agricultural soils of different catch crop management systems by ^{13}C pulse labelling PhD Thesis.
- Bogena, H. R., C. Montzka, J. A. Huisman, A. Graf, M. Schmidt, M. Stockinger, C. Von Hebel, H. J. Hendricks-Franssen, J. Van der Kruk and W. Tappe (2018). "The TERENO-Rur hydrological observatory: A multiscale multi-compartment research platform for the advancement of hydrological science." *Vadose Zone Journal* 17(1): 1-22.
- Bogena, H. R., C. Montzka, J. A. Huisman, A. Graf, M. Schmidt, M. Stockinger, C. Von Hebel, H. J. Hendricks-Franssen, J. Van der Kruk and W. Tappe (2018). "The TERENO-Rur hydrological observatory: A multiscale multi-compartment research platform for the advancement of hydrological science." *Vadose Zone Journal* 17(1): 1-22.
- Bogužas, V., A. Sinkevičienė, K. Romaneckas, V. Steponavičienė, L. Skinulienė and L. M. Butkevičienė (2018). "The impact of tillage intensity and meteorological conditions on soil temperature, moisture content and CO_2 efflux in maize and spring barley cultivation." *Zemdirbyste-Agriculture* 105(4).
- Bogužas, V., A. Sinkevičienė, K. Romaneckas, V. Steponavičienė, L. Skinulienė and L. M. Butkevičienė (2018). "The impact of tillage intensity and meteorological conditions on soil temperature, moisture content and CO_2 efflux in maize and spring barley cultivation." *Zemdirbyste-Agriculture* 105(4).
- Boyd, A. (2020). "Reducing Topsoil Injury to Bermudagrass Utilizing Micronutrients."
- Brændholt, A., A. Ibrom, P. Ambus, K. S. Larsen and K. Pilegaard (2019). "Combining a quantum cascade laser spectrometer with an automated closed-chamber system for $\delta^{13}\text{C}$ measurements of forest soil, tree stem and tree root CO_2 fluxes." *Forests* 10(5): 432.
- Brændholt, A., A. Ibrom, P. Ambus, K. S. Larsen and K. Pilegaard (2019). "Combining a quantum cascade laser spectrometer with an automated closed-chamber system for $\delta^{13}\text{C}$ measurements of forest soil, tree stem and tree root CO_2 fluxes." *Forests* 10(5): 432.
- Brændholt, A., A. Ibrom, K. S. Larsen and K. Pilegaard (2018). "Partitioning of ecosystem respiration in a beech forest." *Agricultural and Forest Meteorology* 252: 88-98.
- Brændholt, A., A. Ibrom, K. S. Larsen and K. Pilegaard (2018). "Partitioning of ecosystem respiration in a beech forest." *Agricultural and Forest Meteorology* 252: 88-98.
- Brændholt, A., A. Ibrom, K. S. Larsen and K. Pilegaard (2018). "Partitioning of ecosystem respiration in a beech forest." *Agricultural and Forest Meteorology* 252: 88-98.
- Brændholt, A., A. Ibrom, K. S. Larsen and K. Pilegaard (2018). "Partitioning of ecosystem respiration in a beech forest." *Agricultural and Forest Meteorology* 252: 88-98.
- Brändle, J. and N. Kunert (2019). "A new automated stem CO_2 efflux chamber based on industrial ultra-low-cost sensors." *Tree physiology* 39(12): 1975-1983.
- Bréchet, L. M., W. Daniel, C. Stahl, B. Burban, J.-Y. Goret, R. L. Salomón and I. A. Janssens (2021). "Simultaneous tree stem and soil greenhouse gas (CO_2 , CH_4 , N_2O) flux measurements: a novel design for continuous monitoring towards improving flux estimates and temporal resolution." *New Phytologist*.
- Briones, M. J. I., M. H. Garnett and P. Ineson (2021). "No evidence for increased loss of old carbon in a temperate organic soil after 13 years of simulated climatic warming despite increased CO_2 emissions." *Global Change Biology* 27(9): 1836-1847.
- Burba, G. (2021). *Atmospheric flux measurements. Advances in Spectroscopic Monitoring of the Atmosphere*, Elsevier: 443-520.
- Cahill, A. G., B. Ladd, J. Chao, J. Soares, T. Cary, N. Finke, C. Manning, C. Chopra, I. Hawthorne and O. N. Forde (2018). "Implementation and operation of a multidisciplinary field investigation involving a subsurface controlled natural gas release, northeastern

- British Columbia." Geoscience BC Summary of Activities: 2019-2002.
- Cahill, A. G., B. Ladd, J. Chao, J. Soares, T. Cary, N. Finke, C. Manning, A. L. Popp, C. Chopra and K. U. Mayer "Controlled Natural Gas Release Experiment in a Confined Aquifer, Northeastern British Columbia (NTS 094A/04): Activity Report 2018–2019."
- Callesen, I., A. Brændholt, M. Schrumph, L. Vesterdal, A. Magnussen, M. Vorenhout and K. S. Larsen (2021). "A High-Resolution Digital Elevation Model in Combination With Water Table Depth and Continuous Soil Redox Potential Measurements Explain Soil Respiration and Soil Carbon Stocks at the ICOS Site Sorø. *Front. For. Glob. Change* 3: 563355.
- Calvo-Rodríguez, S., R. Kiese and G. A. Sánchez-Azofeifa (2020). "Seasonality and budgets of soil greenhouse gas emissions from a tropical dry forest successional gradient in Costa Rica." *Journal of Geophysical Research: Biogeosciences* 125(9): e2020JG005647.
- Campoe, O. C., C. A. Alvares, R. L. Carneiro, D. Binkley, M. G. Ryan, R. M. Hubbard, J. Stahl, G. Moreira, L. F. Moraes and J. L. Stape (2020). "Climate and genotype influences on carbon fluxes and partitioning in Eucalyptus plantations." *Forest Ecology and Management* 475: 118445.
- Campos Mantovanelli, B., L. Coutinho Alho, M. C. C. Campos, J. M. d. Cunha and I. Amorim Oliveira (2020). "Pedoindicators attributes in the variation of CO₂ efflux in Indian black earth and non-anthropogenic soils." *Carbon Management* 11(5): 511-523.
- Canteral, K. F. F. (2020). "Aprendizado de máquina na modelagem temporal da emissão de CO₂ do solo em áreas agrícolas no Cerrado brasileiro."
- Capooci, M., J. Barba, A. L. Seyfferth and R. Vargas (2019). "Experimental influence of storm-surge salinity on soil greenhouse gas emissions from a tidal salt marsh." *Science of the total environment* 686: 1164-1172.
- Carvalho, J. B. d. (2019). "Equações estruturais aplicadas ao entendimento da dinâmica do carbono do solo em sistemas agroflorestais no cerrado brasileiro."
- Casas, C. C., A. Graf, N. Brüggemann, C. J. Schaschke and M. E. Jorat (2020). "Dolerite fines used as a calcium source for microbially induced calcite precipitation reduce the environmental carbon cost in sandy soil." *Frontiers in microbiology* 11: 2181.
- Chen, F., G. Yan, Y. Xing, J. Zhang, Q. Wang, H. Wang, B. Huang, Z. Hong, G. Dai and X. Zheng (2019). "Effects of N addition and precipitation reduction on soil respiration and its components in a temperate forest." *Agricultural and forest meteorology* 271: 336-345.
- Chen, J., Y. Luo, J. Xia, X. Zhou, S. Niu, S. Shelton, W. Guo, S. Liu, W. Dai and J. Cao (2018). "Divergent responses of ecosystem respiration components to livestock exclusion on the Qinghai Tibetan Plateau." *Land Degradation & Development* 29(6): 1726-1737.
- Chen, J., Y. Zhang, Y. Luo, X. Zhou, Y. Jiang, J. Zhao, Y. Chen, C. Wang, L. Guo and J. Cao (2019). "Contrasting responses after fires of the source components of soil respiration and ecosystem respiration." *European Journal of Soil Science* 70(3): 616-629.
- Chen, Z., Y. Niu, R. Zhao, C. Han, H. Han and H. Luo (2019). "The combination of limited irrigation and high plant density optimizes canopy structure and improves the water use efficiency of cotton." *Agricultural Water Management* 218: 139-148.
- Cheng, X., H. Han, J. Zhu, X. Peng, B. Li, H. Liu and H. E. Epstein (2021). "Forest thinning and organic matter manipulation drives changes in soil respiration in a *Larix principis-rupprechtii* plantation in China." *Soil and Tillage Research* 211: 104996.
- Cicuéndez, V., M. Rodríguez-Rastrero, L. Recuero, M. Huesca, T. Schmid, R. Inclán, J. Litago, V. Sánchez-Girón and A. Palacios-Orueta (2020). "First Insights on Soil Respiration Prediction across the Growth Stages of Rainfed Barley Based on Simulated MODIS and Sentinel-2 Spectral Indices." *Remote Sensing* 12(17): 2724.
- Cicuéndez, V., M. Rodríguez-Rastrero, L. Recuero, M. Huesca, T. Schmid, R. Inclán, J. Litago, V. Sánchez-Girón and A. Palacios-Orueta (2020). "First Insights on Soil Respiration Prediction across the Growth Stages of Rainfed Barley Based on Simulated MODIS and Sentinel-2 Spectral Indices." *Remote Sensing* 12(17): 2724.
- Couch, R. L., N. Luckai, D. Morris and A. Diochon (2020). "Short-term effects of wood ash application on soil properties, growth, and foliar nutrition of *Picea mariana* and *Picea glauca* seedlings in a plantation trial." *Canadian Journal of Soil Science* 101: 1-13.
- Courtois, E. A., C. Stahl, B. Burban, J. V. d. Berge, D.

- Berveiller, L. Bréchet, J. L. Soong, N. Arriga, J. Peñuelas and I. A. Janssens (2019). "Automatic high-frequency measurements of full soil greenhouse gas fluxes in a tropical forest." *Biogeosciences* 16(3): 785-796.
- Courtois, E. A., C. Stahl, B. Burban, J. V. d. Berge, D. Berveiller, L. Bréchet, J. L. Soong, N. Arriga, J. Peñuelas and I. A. Janssens (2019). "Automatic high-frequency measurements of full soil greenhouse gas fluxes in a tropical forest." *Biogeosciences* 16(3): 785-796.
- Crause, D. H., E. L. da Vitória, C. da Penha Simon, É. das Graça Lacerda, T. F. Rodrigues, Y. S. Avancini, J. M. Valle and J. L. dos Santos (2019). "Emission of CO₂ and Organic Carbon Content in Different Pasture Management Systems." *International Journal of Plant & Soil Science*: 1-9.
- Cui, H., J. Bai, S. Du, J. Wang, G. N. Keculah, W. Wang, G. Zhang and J. Jia (2021). "Interactive effects of groundwater level and salinity on soil respiration in coastal wetlands of a Chinese Delta." *Environmental Pollution*: 117400.
- da Penha Simon, C., E. L. da Vitória, E. das Graça Lacerda, Y. S. Avancini, T. F. Rodrigues and C. A. Simon (2019). "Emissão de CO₂, atributos físicos e carbono orgânico total em diferentes sistemas de preparo do solo." *Nativa* 7(5): 494-499.
- da Penha Simon, C., E. L. da Vitória, E. das Graça Lacerda, Y. S. Avancini, T. F. Rodrigues and C. A. Simon (2019). "Emissão de CO₂, atributos físicos e carbono orgânico total em diferentes sistemas de preparo do solo." *Nativa* 7(5): 494-499.
- da Silva Cardoso, A., J. B. Junqueira, R. A. Reis and A. C. Ruggieri (2020). "How do greenhouse gas emissions vary with biofertilizer type and soil temperature and moisture in a tropical grassland?" *Pedosphere* 30(5): 607-617.
- da Silva, D. A. P., M. C. C. Campos, B. C. Mantovanelli, L. A. C. do Santos, M. D. R. Soares and J. M. da Cunha (2019). "Spatial variability of CO₂ emission, temperature and soil moisture in an area under pasture in the Amazon region, Brazil." *Revista de Ciências Agroveterinárias* 18(1): 119-126.
- da Silva, D. A. P., M. C. C. Campos, B. C. Mantovanelli, L. A. C. do Santos, M. D. R. Soares and J. M. da Cunha (2019). "Variabilidade espacial da emissão de CO₂, temperatura e umidade do solo em área de pastagem na região Amazônica, Brasil." *Revista de Ciências Agroveterinárias* 18(1): 119-126.
- da Silva, D. M. N., C. H. P. Venturim, M. E. O. V. Capucho, F. L. de Oliveira and E. de Sá Mendonça (2018). "Impact of soil cover systems on soil quality and organic production of yacon." *Scientia Horticulturae* 235: 407-412.
- da Silva, D. M. N., C. H. P. Venturim, M. E. O. V. Capucho, F. L. de Oliveira and E. de Sá Mendonça (2018). "Impact of soil cover systems on soil quality and organic production of yacon." *Scientia Horticulturae* 235: 407-412.
- da Silva, P. A., B. H. De Lima, N. La Scala Jr, N. J. Peruzzi, F. R. Chavarette and A. R. Panosso (2020). "Spatial variation of soil carbon stability in sugarcane crops, central-south of Brazil." *Soil and Tillage Research* 202: 104667.
- da Silva, P. A., M. E. Vicentini, A. R. Panosso, B. C. de Lima Candido and G. de Sousa Rolim "INFLUÊNCIA DOS ATRIBUTOS FÍSICOS-QUÍMICOS DO SOLO NOS PROCESSOS DO FLUXO DE CO₂ EM ÁREAS DE CANA CRUA INFLUENCIA DE LOS ATRIBUTOS FÍSICO-QUÍMICOS DEL SUELO EN LOS PROCESOS DE FLUJO DE CO₂ EN ÁREAS CRUDAS DE CAÑA INFLUENCE OF SOIL PHYSICAL-CHEMICAL ATTRIBUTES IN THE."
- da Vitória, E. L., C. da Penha Simon, I. Gontijo, I. L. de Jesus Freitas and P. R. R. Junior (2020). "CO₂ flux emissions from Atlantic Rainforest soil: determining the most suitable sampling time." *Ciência e Natura* 42: 20.
- da Vitória, E. L., C. da Penha Simon, I. Gontijo, I. L. de Jesus Freitas and P. R. R. Junior (2020). "CO₂ flux emissions from Atlantic Rainforest soil: determining the most suitable sampling time." *Ciência e Natura* 42: 20.
- Dacal, M., P. García-Palacios, S. Asensio, C. Cano-Díaz, B. Gozalo, V. Ochoa and F. T. Maestre (2020). "Contrasting mechanisms underlie short-and longer-term soil respiration responses to experimental warming in a dryland ecosystem." *Global Change Biology* 26(9): 5254-5266.
- Dacal, M., P. García-Palacios, S. Asensio, B. Gozalo, V. Ochoa and F. T. Maestre (2020). "Abiotic and biotic drivers underly short-and long-term soil respiration responses to experimental warming in a dryland ecosystem." *bioRxiv*.
- Damm, E., M. Angelopolus, B. Delille, B. Koch, F.

- Pätzold, A. Rinke, T. Sachs, J. Verdugo and L. Zhan "6.1 Greenhouse gases." *Polarstern*: 62.
- Darenova, E. and M. Čater (2018). "Different structure of sessile oak stands affects soil moisture and soil CO₂ efflux." *Forest Science* 64(3): 340-348.
- Darenova, E. and M. Čater (2020). "Effect of spatial scale and harvest on heterogeneity of forest floor CO₂ efflux in a sessile oak forest." *Catena* 188: 104455.
- Darenova, E., R. A. Crabbe, R. Knott, B. Uherková and J. Kadavý (2018). "Effect of coppicing, thinning and throughfall reduction on soil water content and soil CO₂ efflux in a sessile oak forest." *Silva Fenn* 52.
- Darenova, E., J. Dušek and L. Mžourková-Macalková (2019). "Are the hydrophobic membrane tubes suitable for instantaneous soil CO₂ concentration measurements?"
- Davissone, M. V. D. M. (2019). "Influência das espécies arbóreas sobre a diversidade e atividade da fauna do solo em sistemas agroflorestais."
- de Aquino, R. E., J. M. Júnior, M. C. C. Campos, L. S. Silva, R. P. Gomes, M. L. Pimentel, I. A. de Oliveira and D. S. Siqueira (2021). "Impact of Land Use On The Variability of Soil Attributes Within Distinct Amazonian Environments."
- de Araújo Santos, G. A., M. R. Moitinho, B. de Oliveira Silva, C. V. Xavier, D. D. B. Teixeira, J. E. Corá and N. L. S. Júnior (2019). "Effects of long-term no-tillage systems with different succession cropping strategies on the variation of soil CO₂ emission." *Science of the total environment* 686: 413-424.
- de Avaliação Externa, C. NCE/18/0000135 Decisão de apresentação de pronúncia-Novo ciclo de estudos PhD Thesis, Instituto Politécnico De Bragança.
- De, I. D. A. C. E. T. and E. N. D. I. Da "EFEITO DO RESÍDUO DA PALHA DE MILHO NO SOLO SOB O PERFILAMENTO DA CANA-DE-AÇÚCAR..... 1662 FITOMASSA E PRODUÇÃO DE NUTRIENTES EM CULTIVOS SOLTEIROS E CONSORCIADOS..... 1668 FONTES, MODO DE APLICAÇÃO E TRANSLOCAÇÃO DE ENXOFRE NO DESENVOLVIMENTO INICIAL DO MILHO."
- de Oliveira Silva, B., M. R. Moitinho, G. A. de Araujo Santos, D. D. B. Teixeira, C. Fernandes and N. La Scala Jr (2019). "Soil CO₂ emission and short-term soil pore class distribution after tillage operations." *Soil and Tillage Research* 186: 224-232.
- Dhanao, M. S., A. Louro, L. M. Cardenas, A. Shepherd, R. Sanderson, S. Lopez and J. France (2020). "A strategy for modelling heavy-tailed greenhouse gases (GHG) data using the generalised extreme value distribution: Are we overestimating GHG flux using the sample mean?" *Atmospheric Environment* 237: 117500.
- Di, D. and G. Huang (2021). "Isotope Analysis Reveals Differential Impacts of Artificial and Natural Afforestation on Soil Organic Carbon Dynamics in Abandoned Farmland."
- Di, D. and G. Huang (2021). "Isotope Analysis Reveals Differential Impacts of Artificial and Natural Afforestation on Soil Organic Carbon Dynamics in Abandoned Farmland."
- Dianpeng, L., W. Hui, S. Tao, L. Suiyunhao, L. Zheng, Z. Kai and J. Hongtao (2018). "Effects of mechanical compaction on soil microbial activities and carbon emission of oasis agricultural soils in Xinjiang." *Transactions of the Chinese Society of Agricultural Engineering* 2018: 20.
- Dietrich, S. T. (2018). "Characterization of soil spatial heterogeneity and improvement of capping materials for oil sands mine reclamation."
- Dietrich, S. T. and M. D. MacKenzie (2018). "Biochar affects aspen seedling growth and reclaimed soil properties in the Athabasca oil sands region." *Canadian Journal of Soil Science* 98(3): 519-530.
- Dietrich, S. T. and M. D. MacKenzie (2018). "Comparing spatial heterogeneity of bioavailable nutrients and soil respiration in boreal sites recovering from natural and anthropogenic disturbance." *Frontiers in Environmental Science* 6: 126.
- Dong, H., L. Qian, J. Yan and L. Wang (2020). "Evaluation of the carbon accumulation capability and carbon storage of different types of wetlands in the Nanhui tidal flat of the Yangtze River estuary." *Environmental Monitoring and Assessment* 192(9): 1-12.
- Dong, L., W. Zeng, A. Wang, J. Tang, X. Yao and W. Wang (2020). "Response of Soil Respiration and Its Components to Warming and Dominant Species Removal along an Elevation Gradient in Alpine Meadow of the Qinghai-Tibetan Plateau." *Environmental Science & Technology* 54(17): 10472-10482.
- Du, Y., H. Han, Y. Wang, M. Zhong, D. Hui, S. Niu and

- S. Wan (2018). "Plant functional groups regulate soil respiration responses to nitrogen addition and mowing over a decade." *Functional Ecology* 32(4): 1117-1127.
- Duan, H., L. Wang, Y. Zhang, X. Fu, Y. Tsang, J. Wu and Y. Le (2018). "Variable decomposition of two plant litters and their effects on the carbon sequestration ability of wetland soil in the Yangtze River estuary." *Geoderma* 319: 230-238.
- Duthoit, M., O. Roupsard, N. Créquy, J. Sauze and K. Van den Meersche (2020). "Conception d'un dispositif automatisé de chambres de mesures d'échanges gazeux du sol à fermeture horizontale."
- Dyukarev, E. A. (2018). Partitioning of net carbon dioxide flux measured by automatic transparent chamber, IOP Publishing.
- Dyukarev, E. A. (2018). Partitioning of net carbon dioxide flux measured by automatic transparent chamber, IOP Publishing.
- Dyukarev, E. A., E. D. Lapshina, E. A. Golovatskaya, N. V. Filippova, E. A. Zarov and I. V. Filippov (2018). Modeling of the net ecosystem exchange, gross primary production, and ecosystem respiration for peatland ecosystems of Western Siberia, IOP Publishing.
- Dyukarev, E. A., E. D. Lapshina, E. A. Golovatskaya, N. V. Filippova, E. A. Zarov and I. V. Filippov (2018). Modeling of the net ecosystem exchange, gross primary production, and ecosystem respiration for peatland ecosystems of Western Siberia, IOP Publishing.
- Evans, S., K. E. O. Todd-Brown, K. Jacobson and P. Jacobson (2020). "Non-rainfall moisture: A key driver of microbial respiration from standing litter in arid, semiarid, and mesic grasslands." *Ecosystems* 23(6): 1154-1169.
- Evans, S. E., K. E. O. Todd-Brown, K. Jacobson and P. Jacobson (2019). "Non-rainfall moisture: a key driver of carbon flux from standing litter in arid, semiarid, and mesic grasslands." *bioRxiv*: 696666.
- Fa, K., Y. Zhang, G. Lei, B. Wu, S. Qin, J. Liu, W. Feng and Z. Lai (2018). "Underestimation of soil respiration in a desert ecosystem." *Catena* 162: 23-28.
- Fa, K., Y. Zhang, G. Lei, B. Wu, S. Qin, J. Liu, W. Feng and Z. Lai (2018). "Underestimation of soil respiration in a desert ecosystem." *Catena* 162: 23-28.
- Fairbairn, L. G. (2020). Linking soil moisture content and carbon dioxide fluxes: From batch experiments to process-based modelling Master's Thesis, University of Waterloo.
- Fan, R., B. Zhang, J. Li, Z. Zhang and A. Liang (2020). "Straw-derived biochar mitigates CO₂ emission through changes in soil pore structure in a wheat-rice rotation system." *Chemosphere* 243: 125329.
- Fan, Y., X. Chang, D. Zhao, X. Hou and X. Li (2020). "Study on Soil Respiration Characteristics and Carbon Balance of Kobresia pygmaea Meadow in Qinghai-Tibet Plateau, China." *Journal of Environmental Protection* 11(08): 636.
- Fang, C., W. Ke, M. Campioli, J. Pei, Z. Yuan, X. Song, J.-S. Ye, F. Li and I. A. Janssens (2020). "Unaltered soil microbial community composition, but decreased metabolic activity in a semiarid grassland after two years of passive experimental warming." *Ecology and evolution* 10(21): 12327-12340.
- Fang, C., F. Li, J. Pei, J. Ren, Y. Gong, Z. Yuan, W. Ke, Y. Zheng, X. Bai and J.-S. Ye (2018). "Impacts of warming and nitrogen addition on soil autotrophic and heterotrophic respiration in a semi-arid environment." *Agricultural and Forest Meteorology* 248: 449-457.
- Fang, F., X. Han, W. Liu and M. Tang (2020). "Carbon dioxide fluxes in a farmland ecosystem of the southern Chinese Loess Plateau measured using a chamber-based method." *PeerJ* 8: e8994.
- February, E., J. Pausch and S. I. Higgins (2020). "Major contribution of grass roots to soil carbon pools and CO₂ fluxes in a mesic savanna." *Plant and Soil* 454(1): 207-215.
- Felton, A. J. (2018). Ecosystem responses to precipitation extremes PhD Thesis, Colorado State University.
- Felton, A. J., A. K. Knapp and M. D. Smith (2019). "Carbon exchange responses of a mesic grassland to an extreme gradient of precipitation." *Oecologia* 189(3): 565-576.
- Fengmin, L. (2020). Effects of warming and nitrogen addition on soil respiration, microbial properties and plant growth in grassland ecosystems PhD Thesis, University of Antwerp.
- Ferraz-Almeida, R., K. A. Spokas and R. C. De Oliveira (2020). "Columns and Detectors Recommended in Gas Chromatography to Measure Greenhouse Emission and O₂ Uptake in Soil: A Review." *Communications in Soil Science and Plant Analysis* 51(5): 582-594.

- Fiedler, D. J. (2020). "Phytoremediation of Saline-sodic Soils in East Central South Dakota Utilizing Perennial Grass Mixtures."
- Fiedler, D. J., D. E. Clay, D. R. Joshi, A. Engel, S.-Y. Marzano, D. Jakubowski, D. Bhattarai, C. L. Reese, S. A. Bruggeman and S. A. Clay (2021). CO₂ and N₂O emissions and microbial community structure from fields that include salt-affected soils.
- Fleming, N. A., T. A. Morais, K. U. Mayer and M. C. Ryan (2021). "Spatiotemporal variability of fugitive gas migration emissions around a petroleum well." *Atmospheric Pollution Research*: 101094.
- Fleming, N. A., T. A. Morais, K. U. Mayer and M. C. Ryan (2021). "Spatiotemporal variability of fugitive gas migration emissions around a petroleum well." *Atmospheric Pollution Research*: 101094.
- Fleming, N. A., T. A. Morais, K. U. Mayer and M. C. Ryan (2021). "Spatiotemporal variability of fugitive gas migration emissions around a petroleum well." *Atmospheric Pollution Research*: 101094.
- Ford, H., J. R. Healey, B. Webb, T. F. Pagella and A. R. Smith (2021). "Hedgerow effects on CO₂ emissions are regulated by soil type and season: Implications for carbon flux dynamics in livestock-grazed pasture." *Geoderma* 382: 114697.
- Forde, O. N. (2019). Fugitive gas migration from leaking oil and gas wells PhD Thesis, University of British Columbia.
- Forde, O. N. (2019). Fugitive gas migration from leaking oil and gas wells PhD Thesis, University of British Columbia.
- Forde, O. N., A. G. Cahill, R. D. Beckie and K. U. Mayer (2019). "Barometric-pumping controls fugitive gas emissions from a vadose zone natural gas release." *Scientific reports* 9(1): 1-9.
- Forde, O. N., A. G. Cahill, R. D. Beckie and K. U. Mayer (2019). "Barometric-pumping controls fugitive gas emissions from a vadose zone natural gas release." *Scientific reports* 9(1): 1-9.
- Forde, O. N., A. G. Cahill, R. D. Beckie and K. U. Mayer (2019). "Barometric-pumping controls fugitive gas emissions from a vadose zone natural gas release." *Scientific reports* 9(1): 1-9.
- Forde, O. N., K. U. Mayer, A. G. Cahill, B. Mayer, J. A. Cherry and B. L. Parker (2018). "Vadose zone gas migration and surface effluxes after a controlled natural gas release into an unconfined shallow aquifer." *Vadose Zone Journal* 17(1): 1-16.
- Forde, O. N., K. U. Mayer, A. G. Cahill, B. Mayer, J. A. Cherry and B. L. Parker (2018). "Vadose zone gas migration and surface effluxes after a controlled natural gas release into an unconfined shallow aquifer." *Vadose Zone Journal* 17(1): 1-16.
- Forde, O. N., K. U. Mayer, A. G. Cahill, B. Mayer, J. A. Cherry and B. L. Parker (2018). "Vadose zone gas migration and surface effluxes after a controlled natural gas release into an unconfined shallow aquifer." *Vadose Zone Journal* 17(1): 1-16.
- Forde, O. N., K. U. Mayer and D. Hunkeler (2019). "Identification, spatial extent and distribution of fugitive gas migration on the well pad scale." *Science of the Total Environment* 652: 356-366.
- Forde, O. N., K. U. Mayer and D. Hunkeler (2019). "Identification, spatial extent and distribution of fugitive gas migration on the well pad scale." *Science of the Total Environment* 652: 356-366.
- Fournier, B., E. Samaritani, B. Frey, C. V. W. Seppey, E. Lara, T. J. Heger and E. A. D. Mitchell (2020). "Higher spatial than seasonal variation in floodplain soil eukaryotic microbial communities." *Soil Biology and Biochemistry* 147: 107842.
- Fraterrigo, J. M., K. Ream and J. D. Knoepp (2018). "Tree mortality from insect infestation enhances carbon stabilization in southern appalachian forest soils." *Journal of Geophysical Research: Biogeosciences* 123(7): 2121-2134.
- Fraterrigo, J. M. and M. K. Rembelski (2021). "Frequent Fire Reduces the Magnitude of Positive Interactions Between an Invasive Grass and Soil Microbes in Temperate Forests." *Ecosystems*: 1-18.
- Freitas, L. P. S., M. L. M. Lopes, L. B. Carvalho, A. R. Panosso, N. L. S. Júnior, R. L. B. Freitas, C. R. Minussi and A. D. P. Lotufo (2018). "Forecasting the spatiotemporal variability of soil CO₂ emissions in sugarcane areas in southeastern Brazil using artificial neural networks." *Environmental monitoring and assessment* 190(12): 1-14.
- Freund, L., P. Mariotte, M. Santonja, A. Buttler and B. Jeangros (2021). "Species identity, rather than species mixtures, drives cover crop effects on nutrient partitioning in unfertilized agricultural soil." *Plant and Soil* 460(1): 149-162.
- Freund, L., P. Mariotte, M. Santonja, A. Buttler and B. Jeangros (2021). "Species identity, rather than species

- mixtures, drives cover crop effects on nutrient partitioning in unfertilized agricultural soil." *Plant and Soil* 460(1): 149-162.
- Frossard, A., J. Donhauser, A. Mestrot, S. Gygax, E. Blaa\laath and B. Frey (2018). "Long-and short-term effects of mercury pollution on the soil microbiome." *Soil Biology and Biochemistry* 120: 191-199.
- Fu, R., X. Xu, Y. Yu, Y. Zhang, Z. Sun and X. Tao (2021). "Forest soil respiration response to increasing nitrogen deposition along an urban–rural gradient." *Global Ecology and Conservation* 27: e01575.
- Gana, C., Y. Nouvellon, N. Marron, J. L. Stape and D. Epron (2018). "Sampling and interpolation strategies derived from the analysis of continuous soil CO₂ flux." *Journal of Plant Nutrition and Soil Science* 181(1): 12-20.
- Gao, D., J. Joseph, R. A. Werner, I. Brunner, A. Zürcher, C. Hug, A. Wang, C. Zhao, E. Bai and K. Meusburger (2021). "Drought alters the carbon footprint of trees in soils—tracking the spatio-temporal fate of 13C-labelled assimilates in the soil of an old-growth pine forest." *Global Change Biology* 27(11): 2491-2506.
- Gao, D., J. Joseph, R. A. Werner, I. Brunner, A. Zürcher, C. Hug, A. Wang, C. Zhao, E. Bai and K. Meusburger (2021). "Drought alters the carbon footprint of trees in soils—tracking the spatio-temporal fate of 13C-labelled assimilates in the soil of an old-growth pine forest." *Global Change Biology* 27(11): 2491-2506.
- Gao, J., H. Han and F. Kang (2019). "Factors Controlling Decomposition Rates of Needle Litter Across a Chronosequence of Chinese Pine (*Pinus tabuliformis* Carr.) Forests." *Polish Journal of Environmental Studies* 28(1).
- Gao, Q., E. Bai, J. Wang, Z. Zheng, J. Xia and W. You (2018). "Effects of litter manipulation on soil respiration under short-term nitrogen addition in a subtropical evergreen forest." *Forest Ecology and Management* 429: 77-83.
- Gao, S., A. Hendratna, Z. Cai, T. Pflaum, R. Qin and C. Phene (2020). "Carbon Dioxide Emissions and Spatial Variability Affected by Drip Irrigation Methods in a Pomegranate Orchard." *International Journal of Environmental Science and Development* 11(5): 217-224.
- Gao, W., Z. Huang, G. Ye, X. Yue and Z. Chen (2018). "Effects of forest cover types and environmental factors on soil respiration dynamics in a coastal sand dune of subtropical China." *Journal of Forestry Research* 29(6): 1645-1655.
- Gao, X., W. Li, A. Salman, R. Wang, L. Du, L. Yao, Y. Hu and S. Guo (2020). "Impact of topsoil removal on soil CO₂ emission and temperature sensitivity in Chinese Loess Plateau." *Science of The Total Environment* 708: 135102.
- Gao, Y., Z. Zhao, Y. Zhang and J. Liu (2021). "Response of abiotic soil CO₂ flux to the difference in air-soil temperature in a desert." *Science of The Total Environment* 785: 147377.
- Gao, Y., Z. Zhao, Y. Zhang and J. Liu (2021). "Response of abiotic soil CO₂ flux to the difference in air-soil temperature in a desert." *Science of The Total Environment* 785: 147377.
- García-Palacios, P., C. Escolar, M. Dacal, M. Delgado-Baquerizo, B. Gozalo, V. Ochoa and F. T. Maestre (2018). "Pathways regulating decreased soil respiration with warming in a biocrust-dominated dryland." *Global change biology* 24(10): 4645-4656.
- Ge, X., Y. Cao, B. Zhou, X. Wang, Z. Yang and M.-H. Li (2019). "Biochar addition increases subsurface soil microbial biomass but has limited effects on soil CO₂ emissions in subtropical moso bamboo plantations." *Applied Soil Ecology* 142: 155-165.
- Ge, X., Y. Cao, B. Zhou, W. Xiao, X. Tian and M.-H. Li (2020). "Combined application of biochar and N increased temperature sensitivity of soil respiration but still decreased the soil CO₂ emissions in moso bamboo plantations." *Science of The Total Environment* 730: 139003.
- Gentsch, N., J. Boy, J. D. K. Batalla, D. Heuermann, N. von Wirén, D. Schweneker, U. Feuerstein, J. Groß, B. Bauer and B. Reinhold-Hurek (2020). "Catch crop diversity increases rhizosphere carbon input and soil microbial biomass." *Biology and Fertility of Soils* 56: 943-957.
- Germon, A. (2019). Consequences of clear-cutting on the production of fine roots, CO₂, CH₄ and N₂O down to the water table in *Eucalyptus grandis* stands conducted in coppice in a throughfall-exclusion experiment PhD Thesis, Montpellier SupAgro.
- Germon, A. (2019). "Consequência do corte raso e da pluviometria sobre a produção de raízes finas, CO₂, N₂O e CH₄ até o lençol freático em povoamentos de

- Eucalyptus grandis conduzidos em talhadia."
- Gimeno, T. E., T. R. McVicar, A. P. O'Grady, D. T. Tissue and D. S. Ellsworth (2018). "Elevated CO₂ did not affect the hydrological balance of a mature native Eucalyptus woodland." *Global change biology* 24(7): 3010-3024.
- Gimeno, T. E., T. R. McVicar, A. P. O'Grady, D. T. Tissue and D. S. Ellsworth (2018). "Elevated CO₂ did not affect the hydrological balance of a mature native Eucalyptus woodland." *Global change biology* 24(7): 3010-3024.
- Gnanamoorthy, P., V. Selvam, R. Ramasubramanian, R. Nagarajan, S. Chakraborty, P. K. D. Burman and A. Karipot (2019). "Diurnal and seasonal patterns of soil CO₂ efflux from the Pichavaram mangroves, India." *Environmental monitoring and assessment* 191(4): 1-12.
- Goodrick, I. (2018). Soil carbon dynamics under oil palm plantations PhD Thesis, James Cook University.
- Goodrick, I. and P. N. Nelson (2018). "Mineralisation of soil organic carbon in two Andisols under oil palm: an incubation study into controlling factors." *Soil Research* 56(1): 105-112.
- Graf, A., A. Klosterhalfen, P. Ney, M. Quade, Y. Rothfuss, D. Weymann, O. Esser, N. Hermes, A. Gottschalk and V. Valler "Instrumental and Data-driven Approaches to Source-Partitioning."
- Griffiths, M., S. Roy, H. Guo, A. Seethepalli, D. Huhman, Y. Ge, R. E. Sharp, F. B. Fritschi and L. M. York (2021). "A multiple ion-uptake phenotyping platform reveals shared mechanisms affecting nutrient uptake by roots." *Plant Physiology* 185(3): 781-795.
- Griffiths, M., X. Wang, K. Dhakal, H. Guo, A. Seethepalli, Y. Kang and L. M. York (2021). "Interactions among rooting traits for deep water and nitrogen uptake in upland and lowland ecotypes of switchgrass (*Panicum virgatum* L.)." *bioRxiv*.
- Griffiths, M. D., S. Roy, H. Guo, A. Seethepalli, D. Huhman, Y. Ge, R. E. Sharp, F. B. Fritschi and L. M. York (2020). "A multiple ion-uptake phenotyping platform reveals shared mechanisms that affect nutrient uptake by maize roots." *BioRxiv*.
- Grignon, F. (2019). "Temperature sensitivity of decomposition decreases with increasing soil organic matter stability."
- Guan, C., X. Li, N. Chen, P. Zhang and C. Zhao (2019). "Warming effects on soil respiration in moss-dominated crusts in the Tengger Desert, northern China." *Plant and Soil* 443(1): 591-603.
- Guan, C., X. Li, N. Chen, P. Zhang and C. Zhao (2019). "Warming effects on soil respiration in moss-dominated crusts in the Tengger Desert, northern China." *Plant and Soil* 443(1): 591-603.
- Guan, C., P. Zhang, C. Zhao and X. Li (2021). "Effects of warming and rainfall pulses on soil respiration in a biological soil crust-dominated desert ecosystem." *Geoderma* 381: 114683.
- Guan, C., P. Zhang, C. Zhao and X. Li (2021). "Effects of warming and rainfall pulses on soil respiration in a biological soil crust-dominated desert ecosystem." *Geoderma* 381: 114683.
- Guan, Y., J. Bai, X. Tian, L. Zhi and Z. Yu (2021). "Integrating ecological and socio-economic systems by carbon metabolism in a typical wetland city of China." *Journal of Cleaner Production* 279: 123342.
- Guimarães, G. P. (2018). "Inibidores de urease, serapilheira e adensamento do cafeeiro arábica: relações com a matéria orgânica do solo."
- Guo, H. and L. M. York (2019). "Maize with fewer nodal roots allocates mass to more lateral and deep roots that improve nitrogen uptake and shoot growth." *Journal of Experimental Botany* 70(19): 5299-5309.
- Guo, H. and L. M. York (2019). "Reallocation to lateral and early-emerging axial roots allows maize (*Zea mays* L.) with reduced nodal root number to more efficiently forage for nitrate." *bioRxiv*: 533042.
- Guo, X., X. Zhou, L. Hale, M. Yuan, J. Feng, D. Ning, Z. Shi, Y. Qin, F. Liu and L. Wu (2018). "Taxonomic and functional responses of soil microbial communities to annual removal of aboveground plant biomass." *Frontiers in microbiology* 9: 954.
- Gutierrez del Arroyo, O. and T. E. Wood (2021). "Large seasonal variation of soil respiration in a secondary tropical moist forest in Puerto Rico." *Ecology and evolution* 11(1): 263-272.
- Gutiérrez del Arroyo, O. and T. E. Wood (2020). "Significant diel variation of soil respiration suggests aboveground and belowground controls in a tropical moist forest in Puerto Rico." *Journal of Geophysical Research: Biogeosciences* 125(3): e2019JG005353.
- Gutiérrez del Arroyo, O. and T. E. Wood (2020). "Significant diel variation of soil respiration suggests aboveground and belowground controls in a tropical

- moist forest in Puerto Rico." *Journal of Geophysical Research: Biogeosciences* 125(3): e2019JG005353.
- Gutiérrez del Arroyo, O. and T. E. Wood (2020). "Soil respiration and climate data from El Tallonal in Arecibo, Puerto Rico (2011-2014)."
- Gutiérrez del Arroyo, O. and T. E. Wood (2020). "Soil respiration and climate data from El Tallonal in Arecibo, Puerto Rico (2011-2014)."
- Habtewold, J. Z., B. L. Helgason, S. F. Yanni, H. H. Janzen, B. H. Ellert and E. G. Gregorich (2021). "Warming effects on the structure of bacterial and fungal communities in diverse soils." *Applied Soil Ecology* 163: 103973.
- Hamad, F. D. (2018). *The Consequences of Land Management, Particularly Compaction, on Soil Ecosystems* PhD Thesis, University of Leicester.
- Hammer, R. L. (2019). *Soil Respiration and Related Abiotic and Remotely Sensed Variables in Different Overstories and Understories in a High Elevation Southern Appalachian Forest* PhD Thesis, Virginia Tech.
- Han, D., P. Yu, X. Zhu, T. Sun and H. Jia (2018). "RELATIONSHIPS BETWEEN SOIL PHYSIOCHEMICAL PROPERTIES AND SOIL RESPIRATION UNDER DIFFERENT LAND USES IN AN ALPINE GRASSLAND DURING FREEZE-THAW PERIOD." *Fresenius Environmental Bulletin* 27(11): 7364-7373.
- Han, G., B. Sun, X. Chu, Q. Xing, W. Song and J. Xia (2018). "Precipitation events reduce soil respiration in a coastal wetland based on four-year continuous field measurements." *Agricultural and Forest Meteorology* 256: 292-303.
- Han, G., B. Sun, X. Chu, Q. Xing, W. Song and J. Xia (2018). "Precipitation events reduce soil respiration in a coastal wetland based on four-year continuous field measurements." *Agricultural and Forest Meteorology* 256: 292-303.
- Han, J., J. Chen, W. Shi, J. Song, D. Hui, J. Ru and S. Wan (2021). "Asymmetric responses of resource use efficiency to previous-year precipitation in a semi-arid grassland." *Functional Ecology* 35(3): 807-814.
- Harris, E., E. Diaz-Pines, E. Stoll, M. Schloter, S. Schulz, C. Duffner, K. Li, K. L. Moore, J. Ingrisch and D. Reinthaler (2021). "Denitrifying pathways dominate nitrous oxide emissions from managed grassland during drought and rewetting." *Science advances* 7(6): eabb7118.
- He, T.-T., J. Wang, Y.-P. Fu, X.-Y. Fu, T. Liu, Y.-K. Li and J.-H. Li (2021). "Effects of Adding Straw and Biochar with Equal Carbon Content on Soil Respiration and Microbial Biomass Carbon and Nitrogen." *Huan Jing ke Xue= Huanjing Kexue* 42(1): 450-458.
- Heckman, R. W., A. R. Khasanova, N. S. Johnson, S. Weber, J. E. Bonnette, M. J. Aspinwall, L. G. Reichmann, T. E. Juenger, P. A. Fay and C. V. Hawkes (2020). "Plant biomass, not plant economics traits, determines responses of soil CO₂ efflux to precipitation in the C4 grass *Panicum virgatum*." *Journal of Ecology* 108(5): 2095-2106.
- Heckman, R. W., A. R. Khasanova, N. S. Johnson, S. Weber, J. E. Bonnette, M. J. Aspinwall, L. G. Reichmann, T. E. Juenger, P. A. Fay and C. V. Hawkes (2020). "Plant biomass, not plant economics traits, determines responses of soil CO₂ efflux to precipitation in the C4 grass *Panicum virgatum*." *Journal of Ecology* 108(5): 2095-2106.
- Heimsch, F. F. "Carbon Fluxes and Pools in a Montane Rainforest in Sulawesi, Indonesia."
- Heimsch, F. F. "Carbon Fluxes and Pools in a Montane Rainforest in Sulawesi, Indonesia."
- Hill, A. C., J. Barba, J. Hom and R. Vargas (2021). "Patterns and drivers of multi-annual CO₂ emissions within a temperate suburban neighborhood." *Biogeochemistry* 152(1): 35-50.
- Hou, T., Y. Wang, F. Guo, Q. Jia, X. Wu, E. Wang and J. Hong (2021). "Soil Respiration Characteristics and Influencing Factors for Apple Orchards in Different Regions on the Loess Plateau of Shaanxi Province." *Sustainability* 13(9): 4780.
- Hoyt, A. M., L. Gandois, J. Eri, F. M. Kai, C. F. Harvey and A. R. Cobb (2019). "CO₂ emissions from an undrained tropical peatland: Interacting influences of temperature, shading and water table depth." *Global change biology* 25(9): 2885-2899.
- Hu, E., P. Sutitarnnontr, M. Tuller and S. B. Jones (2018). "Modeling temperature and moisture dependent emissions of carbon dioxide and methane from drying dairy cow manure."
- Hu, E., P. Sutitarnnontr, M. Tuller and S. B. Jones (2018). "Modeling temperature and moisture dependent emissions of carbon dioxide and methane from drying dairy cow manure."
- Hu, M., Y. Liu, Z. Sun, K. Zhang, Y. Liu, R. Miao and S.

- Wan (2018). "Fire rather than nitrogen addition affects understory plant communities in the short term in a coniferous-broadleaf mixed forest." *Ecology and evolution* 8(16): 8135-8148.
- Hu, M., J. Song, S. Li, Z. Li, Y. Hao, M. Di and S. Wan (2020). "Understanding the effects of fire and nitrogen addition on soil respiration of a field study by combining observations with a meta-analysis." *Agricultural and Forest Meteorology* 292: 108106.
- Hu, S., Y. Li, S. X. Chang, Y. Li, W. Yang, W. Fu, J. Liu, P. Jiang and Z. Lin (2018). "Soil autotrophic and heterotrophic respiration respond differently to land-use change and variations in environmental factors." *Agricultural and Forest Meteorology* 250: 290-298.
- Hu, T., H. Hu, F. Li, X. Dou and L. Sun (2021). "Changes in the non-growing season soil heterotrophic respiration rate are driven by environmental factors after fire in a cold temperate forest ecosystem." *Annals of Forest Science* 78(2): 1-17.
- Hu, T., B. Zhao, F. Li, X. Dou, H. Hu and L. Sun (2021). "Effects of fire on soil respiration and its components in a Dahurian larch (*Larix gmelinii*) forest in northeast China: Implications for forest ecosystem carbon cycling." *Geoderma* 402: 115273.
- Hu, Y., J. Li, S. Zhao and D. Zeng (2019). "Soil respiration response to precipitation reduction in a grassland and a Mongolian pine plantation in semi-arid northeast China." *Journal of Forestry Research* 30(5): 1925-1934.
- Hu, Y., Z. Wang, R. Wang, L. Yao and S. Guo (2020). "Slope sensitivity: A coefficient to represent the dependency of soil CO₂ emissions to slope gradients." *Catena* 193: 104659.
- Hu, Z., G. Wang, X. Sun, J. Wang, X. Chen, C. Song, X. Song and S. Lin (2019). "Variations in belowground carbon use strategies under different climatic conditions." *Agricultural and Forest Meteorology* 268: 32-39.
- Huang, H., J. Ran, M. Ji, Z. Wang, L. Dong, W. Hu, Y. Deng, C. Hou, K. J. Niklas and J. Deng (2020). "Water content quantitatively affects metabolic rates over the course of plant ontogeny." *New Phytologist* 228(5): 1524-1534.
- Huang, H., J. Ran, X. Li, Z. Wang, R. Chen, F. Wu, M. Ye, F. Jia, K. J. Niklas and J. Deng (2020). "A general model for seed and seedling respiratory metabolism." *The American Naturalist* 195(3): 534-546.
- Huang, K., Y. Li, J. Hu, C. Tang, S. Zhang, S. Fu, P. Jiang, T. Ge, Y. Luo and X. Song (2021). "Rates of soil respiration components in response to inorganic and organic fertilizers in an intensively-managed Moso bamboo forest." *Geoderma* 403: 115212.
- Huang, S., G. Ye, J. Lin, K. Chen, X. Xu, H. Ruan, F. Tan and H. Y. H. Chen (2018). "Autotrophic and heterotrophic soil respiration responds asymmetrically to drought in a subtropical forest in the Southeast China." *Soil Biology and Biochemistry* 123: 242-249.
- Ibrahim, A. S. (2019). Carbon Dioxide, Energy Fluxes And Evapotranspiration Of The Oil Palm Canopy On Mineral Soil PhD Thesis, Universiti Sains Malaysia.
- Ibrahim, A. S. (2019). Carbon Dioxide, Energy Fluxes And Evapotranspiration Of The Oil Palm Canopy On Mineral Soil PhD Thesis, Universiti Sains Malaysia.
- Ibrom, A., K. Pilegaard, A. Brændholt, K. S. Larsen and P. Ambus (2019). "Combining a Quantum Cascade Laser Spectrometer with an Automated Closed-Chamber System for $\delta^{13}C$ Measurements of Forest Soil, Tree Stem and Tree Root CO₂ Fluxes." *Forests* (19994907) 10(5).
- Ibrom, A., K. Pilegaard, A. Brændholt, K. S. Larsen and P. Ambus (2019). "Combining a Quantum Cascade Laser Spectrometer with an Automated Closed-Chamber System for $\delta^{13}C$ Measurements of Forest Soil, Tree Stem and Tree Root CO₂ Fluxes." *Forests* (19994907) 10(5).
- Jarvi, M. P. and A. J. Burton (2020). "Root respiration and biomass responses to experimental soil warming vary with root diameter and soil depth." *Plant and Soil* 451: 435-446.
- Jessen, B. J., C. A. Oviatt, R. Rossi, C. Duball, C. Wigand, D. S. Johnson and S. W. Nixon (2021). "Decomposition of mangrove litter under experimental nutrient loading in a fringe *Rhizophora* mangle (L.) forest." *Estuarine, Coastal and Shelf Science* 248: 106981.
- Jia, H., H. Guo, M. J. Walsh, J. Bennett, Y. Zhang and G. Wang (2018). "Long-term maize stalk retention reduces seedtime soil respiration." *Chilean journal of agricultural research* 78(3): 350-359.
- Jia, J., Z. Cao, C. Liu, Z. Zhang, L. Lin, Y. Wang, N. Haghypour, L. Wacker, H. Bao and T. Dittmar (2019). "Climate warming alters subsoil but not topsoil carbon dynamics in alpine grassland." *Global change biology* 25(12): 4383-4393.

- Jia, J., Z. Cao, C. Liu, Z. Zhang, L. Lin, Y. Wang, N. Haghipour, L. Wacker, H. Bao and T. Dittmar (2019). "Climate warming alters subsoil but not topsoil carbon dynamics in alpine grassland." *Global change biology* 25(12): 4383-4393.
- Jia, S., A. Liang, S. Zhang, X. Chen, N. B. McLaughlin, B. Sun, X. Zhang and D. Wu (2021). "Effect of tillage system on soil CO₂ flux, soil microbial community and maize (*Zea mays* L.) yield." *Geoderma* 384: 114813.
- Jiao, Z. and X. Wang (2019). "Contrasting Rhizospheric and Heterotrophic Components of Soil Respiration during Growing and Non-Growing Seasons in a Temperate Deciduous Forest." *Forests* 10(1): 8.
- Jing, Y., Y. Wang, S. Liu, X. Zhang, Q. Wang, K. Liu, Y. Yin and J. Deng (2019). "Interactive effects of soil warming, throughfall reduction, and root exclusion on soil microbial community and residues in warm-temperate oak forests." *Applied Soil Ecology* 142: 52-58.
- Joseph, J., D. Gao, B. Backes, C. Bloch, I. Brunner, G. Gleixner, M. Haeni, H. Hartmann, G. Hoch and C. Hug (2020). "Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation." *Proceedings of the National Academy of Sciences* 117(40): 24885-24892.
- Joseph, J., D. Gao, B. Backes, C. Bloch, I. Brunner, G. Gleixner, M. Haeni, H. Hartmann, G. Hoch and C. Hug (2020). "Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation." *Proceedings of the National Academy of Sciences* 117(40): 24885-24892.
- Joshi Gyawali, A. (2019). A fresh soil health perspective: Soil health dynamics and improved measurement techniques PhD Thesis, Virginia Tech.
- Jung, C. G. (2019). Trends and Variability of Carbon Cycle in Response to Long-Term Experimental Warming in A Tallgrass Prairie PhD Thesis, Northern Arizona University.
- Jung, C. G. (2019). Trends and Variability of Carbon Cycle in Response to Long-Term Experimental Warming in A Tallgrass Prairie PhD Thesis, Northern Arizona University.
- Jung, C. G., Z. Du, O. Hararuk, X. Xu, J. Liang, X. Zhou, D. Li, L. Jiang and Y. Luo (2021). "Long-term measurements in a mixed-grass prairie reveal a change in soil organic carbon recalcitrance and its environmental sensitivity under warming." *Oecologia*: 1-14.
- Jung, C. G., Z. Du, O. Hararuk, X. Xu, J. Liang, X. Zhou, D. Li, L. Jiang and Y. Luo (2021). "Long-term measurements in a mixed-grass prairie reveal a change in soil organic carbon recalcitrance and its environmental sensitivity under warming." *Oecologia*: 1-14.
- Júnior, N. L. A. S., N. J. Peruzzi and F. R. Chavarette "ABORDAGEM MULTIVARIADA DA ESTABILIDADE DO CARBONO DO SOLO SOB O CULTIVO DE CANA-DE-AÇÚCAR NO CERRADO BRASILEIRO."
- Kandel, T. P., P. E. Lærke and L. Elsgaard (2018). "Annual emissions of CO₂, CH₄ and N₂O from a temperate peat bog: Comparison of an undrained and four drained sites under permanent grass and arable crop rotations with cereals and potato." *Agricultural and Forest Meteorology* 256: 470-481.
- Karelin, D. V., D. G. Zamolodchikov, A. V. Shilkin, S. Y. Popov, A. S. Kumanyaev, V. O. L. de Gerenyu, N. O. Tel'nova and M. L. Gitarskiy (2021). "The effect of tree mortality on CO₂ fluxes in an old-growth spruce forest." *European Journal of Forest Research* 140(2): 287-305.
- Karelin, D. V., D. G. Zamolodchikov, A. V. Shilkin, S. Y. Popov, A. S. Kumanyaev, V. O. L. de Gerenyu, N. O. Tel'nova and M. L. Gitarskiy (2021). "The effect of tree mortality on CO₂ fluxes in an old-growth spruce forest." *European Journal of Forest Research* 140(2): 287-305.
- Kautzman, B. (2019). "Seasonal soil carbon fluxes in transitioning agricultural soils in Central Washington State: Relations to land-use, environmental factors and soil carbon-nitrogen characteristics."
- Keane, J. B., R. Morrison, N. P. McNamara and P. Ineson (2019). "Real-time monitoring of greenhouse gas emissions with tall chambers reveals diurnal N₂O variation and increased emissions of CO₂ and N₂O from *Miscanthus* following compost addition." *GCB Bioenergy* 11(12): 1456-1470.
- Kega, S. (2021). EVALUATING THE POTENTIAL FOR INCREASED FORAGE PRODUCTIVITY AND SOIL CARBON SEQUESTRATION IN STRIP-THINNED SILVOPASTURES PhD Thesis, Department of Natural Resource Sciences, Thompson Rivers University.

- Keidel, L. The effect of elevated atmospheric CO₂ on soil C and N dynamics and its feedback on CO₂ and N₂O emissions from a temperate grassland ecosystem PhD Thesis, Justus-Liebig-University Gießen, Germany.
- Kerdraon, D., J. Drewer, B. Castro, A. Wallwork, J. S. Hall and E. J. Sayer (2019). "Litter traits of native and non-native tropical trees influence soil carbon dynamics in timber plantations in Panama." *Forests* 10(3): 209.
- Klosterhalfen, A., A. F. Moene, M. Schmidt, T. M. Scanlon, H. Vereecken and A. Graf (2019). "Sensitivity analysis of a source partitioning method for H₂O and CO₂ fluxes based on high frequency eddy covariance data: Findings from field data and large eddy simulations." *Agricultural and forest meteorology* 265: 152-170.
- Kostyanovsky, K. I., D. R. Huggins, C. O. Stockle, S. Waldo and B. Lamb (2018). "Developing a flow through chamber system for automated measurements of soil N₂O and CO₂ emissions." *Measurement* 113: 172-180.
- Kreuzburg, M. (2019). Impacts of Holocene Peat Deposits on Nearshore Biogeochemical Processes and Trace Gas Production PhD Thesis, Universität Rostock.
- Kreuzburg, M., F. Rezaeehad, T. Milojevic, M. Voss, L. Gosch, S. Liebner, P. Van Cappellen and G. Rehder (2020). "Carbon release and transformation from coastal peat deposits controlled by submarine groundwater discharge: a column experiment study." *Limnology and Oceanography* 65(5): 1116-1135.
- Kulkarni, P. R., C. J. Newell, D. C. King, L. J. Molofsky and S. Garg (2020). "Application of four measurement techniques to understand natural source zone depletion processes at an LNAPL site." *Groundwater Monitoring & Remediation* 40(3): 75-88.
- Kuloyo, O. O. (2019). "The Impact of Community-Driven Methane Oxidation on the Fate of Fugitive Methane in Shallow Groundwater."
- Kuloyo, O. O. (2019). "The Impact of Community-Driven Methane Oxidation on the Fate of Fugitive Methane in Shallow Groundwater."
- Kuloyo, O. O. (2019). "The Impact of Community-Driven Methane Oxidation on the Fate of Fugitive Methane in Shallow Groundwater."
- Kunz, M., J. V. Lavric, R. Gasche, C. Gerbig, R. H. Grant, F.-T. Koch, M. Schumacher, B. Wolf and M. Zeeman (2020). "Surface flux estimates derived from UAS-based mole fraction measurements by means of a nocturnal boundary layer budget approach." *Atmospheric Measurement Techniques* 13(4): 1671-1692.
- Lei, L., W. Xiao, L. Zeng, B. Frey, Z. Huang, J. Zhu, R. Cheng and M.-H. Li (2021). "Effects of thinning intensity and understory removal on soil microbial community in *Pinus massoniana* plantations of subtropical China." *Applied Soil Ecology* 167: 104055.
- Lei, L., W. Xiao, L. Zeng, J. Zhu, Z. Huang, R. Cheng, S. Gao and M.-H. Li (2018). "Thinning but not understory removal increased heterotrophic respiration and total soil respiration in *Pinus massoniana* stands." *Science of the Total Environment* 621: 1360-1369.
- Lei, N. and J. Han (2020). "Effect of precipitation on respiration of different reconstructed soils." *Scientific reports* 10(1): 1-10.
- Lei, N., J. Li and T. Chen (2021). "Respiration characteristics and its responses to hydrothermal seasonal changes in reconstructed soils." *Scientific Reports* 11(1): 1-11.
- Lei, N., Z. H. Sun, H. Y. Wang and Q. G. Dong (2020). "DIURNAL VARIATION IN THE RESPIRATION OF RECONSTRUCTED SOIL MASSES AND HYDROTHERMAL INFLUENCING FACTORS." *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH* 18(3): 4507-4520.
- León-Sobrino, C., J.-B. Ramond, G. Maggs-Kölling and D. A. Cowan (2018). "Nutrient acquisition, rather than stress response over diel cycles, drives microbial transcription in a desiccated Namib Desert soil." *bioRxiv*: 432427.
- León-Sobrino, C., J.-B. Ramond, G. Maggs-Kölling and D. A. Cowan (2019). "Nutrient acquisition, rather than stress response over diel cycles, drives microbial transcription in a hyper-arid Namib Desert soil." *Frontiers in microbiology* 10: 1054.
- Leroy, F., S. Gogo, A. Buttler, L. Bragazza and F. Laggoun-Défarge (2018). "Litter decomposition in peatlands is promoted by mixed plants." *Journal of soils and sediments* 18(3): 739-749.
- Lewandowski, T. E., J. A. Forrester, D. J. Mladenoff, A. W. D'Amato, D. S. A. Fassnacht, E. Padley and K. J. Martin (2019). "Do biological legacies moderate the effects of forest harvesting on soil microbial

- community composition and soil respiration." *Forest Ecology and Management* 432: 298-308.
- Li, C., Y. Peng, X. Nie, Y. Yang, L. Yang, F. Li, K. Fang, Y. Xiao and G. Zhou (2018). "Differential responses of heterotrophic and autotrophic respiration to nitrogen addition and precipitation changes in a Tibetan alpine steppe." *Scientific reports* 8(1): 1-13.
- Li, H., T. Bölscher, M. Winnick, M. M. Tfaily, Z. G. Cardon and M. Keiluweit (2021). "Simple Plant and Microbial Exudates Destabilize Mineral-Associated Organic Matter via Multiple Pathways." *Environmental Science & Technology* 55(5): 3389-3398.
- Li, J., Y. Huang, F. Xu, L. Wu, D. Chen and Y. Bai (2018). "Responses of growing-season soil respiration to water and nitrogen addition as affected by grazing intensity." *Functional Ecology* 32(7): 1890-1901.
- Li, J., H. Li, Q. Zhang, H. Shao, C. Gao and X. Zhang (2019). "Effects of fertilization and straw return methods on the soil carbon pool and CO₂ emission in a reclaimed mine spoil in Shanxi Province, China." *Soil and Tillage Research* 195: 104361.
- Li, J.-T., J.-J. Wang, D.-H. Zeng, S.-Y. Zhao, W.-L. Huang, X.-K. Sun and Y.-L. Hu (2018). "The influence of drought intensity on soil respiration during and after multiple drying-rewetting cycles." *Soil Biology and Biochemistry* 127: 82-89.
- Li, K., M. Niu, W. Bai, Z. Yang and G. Li (2021). "Water-dominated negative effects of nitrogen enrichment on soil respiration in a temperate steppe." *Applied Soil Ecology* 165: 104023.
- Li, R., X. Guan, J. Han, Y. Zhang, W. Zhang, J. Wang, Y. Huang, M. Xu, L. Chen and S. Wang (2021). "Litter decomposition was retarded by understory removal but was unaffected by thinning in a Chinese fir [*Cunninghamia lanceolata* (Lamb.) Hook] plantation." *Applied Soil Ecology* 163: 103968.
- Li, R., W. Zheng, Q. Yang, W. Zhang, Y. Chi, P. Wang, M. Xu, X. Guan, L. Chen and Q. Wang (2019). "The response of soil respiration to thinning was not affected by understory removal in a Chinese fir (*Cunninghamia lanceolata*) plantation." *Geoderma* 353: 47-54.
- Li, S., S. Wang, M. Fan, Y. Wu and Z. Shanguan (2020). "Interactions between biochar and nitrogen impact soil carbon mineralization and the microbial community." *Soil and Tillage Research* 196: 104437.
- Li, W., J. Wang, X. Li, S. Wang, W. Liu, S. Shi and W. Cao (2019). "Nitrogen fertilizer regulates soil respiration by altering the organic carbon storage in root and topsoil in alpine meadow of the north-eastern Qinghai-Tibet Plateau." *Scientific reports* 9(1): 1-13.
- Li, W., R. Zhang, S. Liu, W. Li, J. Li, H. Zhou and J. M. H. Knops (2018). "Effect of loss of plant functional group and simulated nitrogen deposition on subalpine ecosystem properties on the Tibetan Plateau." *Science of the Total Environment* 631: 289-297.
- Li, W., R. Zhang, S. Liu, W. Li, J. Li, H. Zhou and J. M. H. Knops (2018). "Effect of loss of plant functional group and simulated nitrogen deposition on subalpine ecosystem properties on the Tibetan Plateau." *Science of the Total Environment* 631: 289-297.
- Li, W.-J., S.-P. Chen, B.-W. Zhang, X.-R. Tan, S.-S. Wang and C.-H. You (2018). "Partitioning of soil respiration components and evaluating the mycorrhizal contribution to soil respiration in a semiarid grassland." *Chinese Journal of Plant Ecology* 42(8): 850.
- Li, X., N. Hui, Y. Yang, J. Ma, Z. Luo and F. Chen (2021). "Short-term effects of land consolidation of dryland-to-paddy conversion on soil CO₂ flux." *Journal of Environmental Management* 292: 112691.
- Li, Y. (2019). Effects of carbon substrate and irrigation on carbon dioxide emissions and denitrification for three grassland soils: A thesis submitted in partial fulfilment of the requirements for the Degree of Doctor of Philosophy at Lincoln University PhD Thesis, Lincoln University.
- Li, Y., T. J. Clough, G. Y. K. Moinet and D. Whitehead (2021). "Emissions of nitrous oxide, dinitrogen and carbon dioxide from three soils amended with carbon substrates under varying soil matric potential." *European Journal of Soil Science*.
- Li, Y., Y. Li, S. X. Chang, Y. Yang, S. Fu, P. Jiang, Y. Luo, M. Yang, Z. Chen and S. Hu (2018). "Biochar reduces soil heterotrophic respiration in a subtropical plantation through increasing soil organic carbon recalcitrancy and decreasing carbon-degrading microbial activity." *Soil Biology and Biochemistry* 122: 173-185.
- Li, Y., S. Lin, Q. Chen, X. Ma, S. Wang and K. He (2021). "Response of soil respiration to environmental and photosynthetic factors in different subalpine forest-cover types in a loess alpine hilly region." *Journal of Forestry Research*: 1-13.

- Li, Y., Y. Wang, Y. Wang and B. Wang (2019). "Effects of simulated acid rain on soil respiration and its component in a mixed coniferous-broadleaved forest of the three gorges reservoir area in Southwest China." *Forest Ecosystems* 6(1): 1-16.
- Li, Y., Y. Wang and W. Zhang (2021). "Impact of simulated acid rain on the composition of soil microbial communities and soil respiration in typical subtropical forests in Southwest China." *Ecotoxicology and Environmental Safety* 215: 112152.
- Li, Y., Z. Zhou, L. Lei, J. Ru, J. Song, M. Zhong, R. Tian, A. Zhang, M. Zheng and D. Hui (2020). "Asymmetric responses of soil respiration in three temperate steppes along a precipitation gradient in northern China revealed by soil-monolith transplanting experiment." *Agricultural and Forest Meteorology* 294: 108126.
- Li, Z., J. Gao, L. Wen, C. Zou, C. Feng, D. Li and D. Xu (2019). "Dynamics of soil respiration in alpine wetland meadows exposed to different levels of degradation in the Qinghai-Tibet Plateau, China." *Scientific reports* 9(1): 1-14.
- Liang, G., A. Cai, H. Wu, X. Wu, A. A. Houssou, C. Ren, Z. Wang, L. Gao, B. Wang and S. Li (2019). "Soil biochemical parameters in the rhizosphere contribute more to changes in soil respiration and its components than those in the bulk soil under nitrogen application in croplands." *Plant and Soil* 435(1): 111-125.
- Liang, G., H. Wu, A. A. Houssou, D. Cai, X. Wu, L. Gao, B. Wang and S. Li (2018). "Soil respiration, glomalin content, and enzymatic activity response to straw application in a wheat-maize rotation system." *Journal of soils and sediments* 18(3): 697-707.
- Liang, G., X. Wu, A. Cai, H. Dai, L. Zhou, D. Cai, A. Houssou, L. Gao, B. Wang and S. Li (2021). "Correlations among soil biochemical parameters, crop yield, and soil respiration vary with growth stage and soil depth under fertilization." *Agronomy Journal*.
- Liang, J., G. Wang, D. M. Ricciuto, L. Gu, P. J. Hanson, J. Wood and M. A. Mayes (2018). "Evaluating the E3SM Land Model at a temperate forest site using flux and soil water measurements." *Geoscientific Model Development Discussions (Online)* 12(4).
- Liang, J., G. Wang, D. M. Ricciuto, L. Gu, P. J. Hanson, J. D. Wood and M. A. Mayes (2019). "Evaluating the E3SM land model version 0 (ELMv0) at a temperate forest site using flux and soil water measurements." *Geoscientific Model Development* 12(4): 1601-1612.
- Liberati, D., P. Sconocchia, A. Ricci, G. Gigliotti, C. Tacconi, P. Grenni, S. Tariciotti, A. B. Caracciolo, A. Massacci and A. Lagomarsino (2018). "Phyto-dehydration of confined sludge: a sustainable approach for the management of polluted ponds." *Journal of Soils and Sediments* 18(6): 2292-2304.
- Lin, L., X. Sun, Z. Yu, Y. Huang and D. Zeng (2020). "Responses of soil respiration to N fertilization and grazing in a Keerqin sandy grassland in northeast China." *Arid Land Research and Management*: 1-16.
- Linton, N. (2020). *Microbial Communities in Agricultural Soil—Diversity, Abundance and Activity Impacted by Fertilization, Cropping and Tillage Practices* PhD Thesis.
- Linton, N. F., P. V. F. Machado, B. Deen, C. Wagner-Riddle and K. E. Dunfield (2020). "Long-term diverse rotation alters nitrogen cycling bacterial groups and nitrous oxide emissions after nitrogen fertilization." *Soil Biology and Biochemistry* 149: 107917.
- Liu, G., T. Liu, G. Yan, L. Wang, X. Wang, Y. Xing and Q. Wang (2020). "Effects of long-term nitrogen addition on soil respiration and its components in a boreal forest."
- Liu, G., G. Yan, M. Chang, B. Huang, X. Sun, S. Han, Y. Xing and Q. Wang (2021). "Long-term nitrogen addition further increased carbon sequestration in a boreal forest." *European Journal of Forest Research*: 1-14.
- Liu, R., Y. Li, Y. Wang, J. Ma and E. Cieraad (2019). "Variation of water use efficiency across seasons and years: Different role of herbaceous plants in desert ecosystem." *Science of The Total Environment* 647: 827-835.
- Liu, R., Y. Li, Y. Wang, J. Ma and E. Cieraad (2019). "Variation of water use efficiency across seasons and years: Different role of herbaceous plants in desert ecosystem." *Science of The Total Environment* 647: 827-835.
- Liu, S., R. Fan, X. Yang, Z. Zhang, X. Zhang and A. Liang (2019). "Decomposition of maize stover varies with maize type and stover management strategies: A microcosm study on a Black soil (Mollisol) in northeast China." *Journal of environmental management* 234: 226-236.
- Liu, W., S. Chen, J. Liang, X. Qin, S. Kang, J. Ren and D.

- Qin (2018). "The effect of decreasing permafrost stability on ecosystem carbon in the northeastern margin of the Qinghai–Tibet Plateau." *Scientific reports* 8(1): 1-10.
- Liu, Y., Q. Chen, Z. Wang, H. Zheng, Y. Chen, X. Chen, L. Wang, H. Li and J. Zhang (2019). "Nitrogen addition alleviates microbial nitrogen limitations and promotes soil respiration in a subalpine coniferous forest." *Forests* 10(11): 1038.
- Liu, Y., G. Ma, Z. Zan, A. Chen, Y. Miao, D. Wang and R. Miao (2018). "Effects of nitrogen addition and mowing on rodent damage in an Inner Mongolian steppe." *Ecology and evolution* 8(8): 3919-3926.
- Liu, Y., Q. Shang, L. Wang and S. Liu (2019). "Effects of understory shrub biomass on variation of soil respiration in a temperate-subtropical transitional oak forest." *Forests* 10(2): 88.
- Liu, Y., Q. Shang, Z. Wang, K. Zhang and C. Zhao "JOURNAL OF PLANT AND ANIMAL ECOLOGY."
- Liu, Y., C. Zhao, J. Guo, L. Zhang, J. Xuan, A. Chen and C. You (2021). "Short-term phosphorus addition augments the effects of nitrogen addition on soil respiration in a typical steppe." *Science of The Total Environment* 761: 143211.
- Liu, Y., C. Zhao, Q. Shang, L. Su and L. Wang (2019). "Responses of soil respiration to spring drought and precipitation pulse in a temperate oak forest." *Agricultural and Forest Meteorology* 268: 289-298.
- Liu, Y., G. Zhou, H. Du, F. Berninger, F. Mao, X. Li, L. Chen, L. Cui and Y. Li (2018). "Soil respiration of a Moso bamboo forest significantly affected by gross ecosystem productivity and leaf area index in an extreme drought event." *PeerJ* 6: e5747.
- Liu, Y., G. Zhou, H. Du, F. Berninger, F. Mao, X. Li, L. Chen, L. Cui and Y. Li (2018). "Soil respiration of a Moso bamboo forest significantly affected by gross ecosystem productivity and leaf area index in an extreme drought event." *PeerJ* 6: e5747.
- López-Teloxa, L. C. and A. I. Monterroso-Rivas (2020). "RESPIRACIÓN DEL SUELO EN UN SISTEMA AGROSILVOPASTORIL EN EL CENTRO DE MÉXICO†[SOIL RESPIRATION IN AN AGROSILVOPASTORAL SYSTEM IN CENTRAL MEXICO]." *Tropical and Subtropical Agroecosystems* 23: 67.
- López-Teloxa, L. C. and A. I. Monterroso-Rivas (2020). "SOIL RESPIRATION IN AN AGROSILVOPASTORAL SYSTEM IN CENTRAL MEXICO." *Tropical and Subtropical Agroecosystems* 23(2).
- Luan, J., S. Liu, J. Wang, S. X. Chang, X. Liu, H. Lu and Y. Wang (2018). "Tree species diversity promotes soil carbon stability by depressing the temperature sensitivity of soil respiration in temperate forests." *Science of The Total Environment* 645: 623-629.
- Luo, Y., X. Zhao, J. Ding, Y. Li, X. Liu, T. Wang and Y. Luo (2020). "Soil respiration dynamics in a semi-fixed sand dune under the pioneer shrub *Artemisia halodendron* Turcz. ex Bess. in the Horqin sandy land, northeastern China." *Arid Land Research and Management* 34(1): 36-51.
- Lv, W., C. Luo, L. Zhang, H. Niu, Z. Zhang, S. Wang, Y. Wang, L. Jiang, Y. Wang and J. He (2020). "Net neutral carbon responses to warming and grazing in alpine grassland ecosystems." *Agricultural and Forest Meteorology* 280: 107792.
- Lyu, M., C. P. Giardina and C. M. Litton (2021). "Interannual variation in rainfall modulates temperature sensitivity of carbon allocation and flux in a tropical montane wet forest." *Global Change Biology*.
- Ma, J., H. Han, W. Zhang and X. Cheng (2018). "Dynamics of nitrogen and active nitrogen components across seasons under varying stand densities in a *Larix principis-rupprechtii* (Pinaceae) plantation." *PeerJ* 6: e5647.
- Ma, J., H. Han, W. Zhang and X. Cheng (2018). "Moderate thinning increases soil nitrogen in a *Larix principis-rupprechtii* (Pinaceae) plantations." *PeerJ Preprints* 6: e26916v26911.
- Ma, J., F. Kang, X. Cheng and H. Han (2018). "Moderate thinning increases soil organic carbon in *Larix principis-rupprechtii* (Pinaceae) plantations." *Geoderma* 329: 118-128.
- Ma, J., R. Liu, C. Li, L. Fan, G. Xu and Y. Li (2020). "Herbaceous layer determines the relationship between soil respiration and photosynthesis in a shrub-dominated desert plant community." *Plant and Soil*: 1-15.
- Ma, J., R. Liu, C. Li, L. Fan, G. Xu and Y. Li (2020). "Herbaceous layer determines the relationship between soil respiration and photosynthesis in a shrub-dominated desert plant community." *Plant and Soil*: 1-15.
- Ma, L., F. Kong, Z. Wang, Y. Luo, X. Lv, Z. Zhou and Y. Meng (2019). "Growth and yield of cotton as affected

- by different straw returning modes with an equivalent carbon input." *Field Crops Research* 243: 107616.
- Ma, M., Z. Zang, Z. Xie, Q. Chen, W. Xu, C. Zhao and G. Shen (2019). "Soil respiration of four forests along elevation gradient in northern subtropical China." *Ecology and evolution* 9(22): 12846-12857.
- Ma, T., G. Zhu, J. Ma, K. Zhang, S. Wang, T. Han and S. Shang (2020). "Soil respiration in an irrigated oasis agroecosystem: linking environmental controls with plant activities on hourly, daily and monthly timescales." *Plant and Soil* 447(1): 347-364.
- Ma, T., G. Zhu, J. Ma, K. Zhang, S. Wang, T. Han and S. Shang (2020). "Soil respiration in an irrigated oasis agroecosystem: linking environmental controls with plant activities on hourly, daily and monthly timescales." *Plant and Soil* 447(1): 347-364.
- Ma, Z., W. Zhao, M. Liu and Q. Liu (2018). "Responses of soil respiration and its components to experimental warming in an alpine scrub ecosystem on the eastern Qinghai-Tibet Plateau." *Science of the total environment* 643: 1427-1435.
- Makhnykina, A. V., D. A. Polosukhina, N. N. Koshurnikova, S. V. Verkhovets and A. S. Prokushkin "Influence of precipitation on CO₂ soil emission in pine forests of the Central Siberia boreal zone."
- Makhnykina, A. V., D. A. Polosukhina, N. N. Koshurnikova, S. V. Verkhovets and A. S. Prokushkin (2018). Influence of precipitation on CO₂ soil emission in pine forests of the Central Siberia boreal zone, IOP Publishing.
- Mannerheim, N., C. H. Blessing, I. Oren, J. M. Grünzweig, C. Bachofen and N. Buchmann (2020). "Carbon allocation to the root system of tropical tree *Ceiba pentandra* using ¹³C pulse labelling in an aeroponic facility." *Tree physiology* 40(3): 350-366.
- Mannerheim, N., I. Oren, C. H. Blessing, J. M. Grünzweig and N. Buchmann "Carbon allocation belowground in the tropical tree *Ceiba pentandra* is controlled by sink strength." *the Tropical Tree Ceiba Pentandra: Transfer Velocity, Magnitude and Biotic Controls*: 125.
- McCourty, M. A., A. J. Gyawali and R. D. Stewart (2018). "Of macropores and tillage: influence of biomass incorporation on cover crop decomposition and soil respiration." *Soil Use and Management* 34(1): 101-110.
- McDonald, M. D. (2018). Impact of conservation management practices on greenhouse gas emission in semi-arid, intensively cropped regions of Texas PhD Thesis.
- McDonald, M. D. (2018). Impact of conservation management practices on greenhouse gas emission in semi-arid, intensively cropped regions of Texas PhD Thesis.
- Meeran, K., J. Ingrisch, D. Reinthaler, A. Canarini, L. Müller, E. M. Pötsch, A. Richter, W. Wanek and M. Bahn (2021). "Warming and elevated CO₂ intensify drought and recovery responses of grassland carbon allocation to soil respiration." *Global Change Biology*.
- Meeran, K., J. Ingrisch, D. Reinthaler, A. Canarini, L. Müller, E. M. Pötsch, A. Richter, W. Wanek and M. Bahn (2021). "Warming and elevated CO₂ intensify drought and recovery responses of grassland carbon allocation to soil respiration." *Global Change Biology*.
- Meinzer, D. N. and C. J. Still "Ecosystem fluxes of carbonyl sulfide in an old-growth forest: temporal dynamics 1 and responses to diffuse radiation and heat waves 2."
- Miao, R., J. Ma, Y. Liu, Y. Liu, Z. Yang and M. Guo (2019). "Variability of aboveground litter inputs alters soil carbon and nitrogen in a coniferous–broadleaf mixed forest of Central China." *Forests* 10(2): 188.
- Miao, Y., M. Liu, J. Xuan, W. Xu, S. Wang, R. Miao, D. Wang, W. Wu, Y. Liu and S. Han (2020). "Effects of warming on soil respiration during the non-growing seasons in a semiarid temperate steppe." *Journal of Plant Ecology* 13(3): 288-294.
- Miller, G. R. (2018). "Understanding and measuring plant water use."
- Mishra, S., L. B. Chaudhary, M. K. Jain, V. Kumar and S. K. Behera (2019). "Interaction of abiotic factor on soil CO₂ efflux in three forest communities in tropical deciduous forest from India." *Environmental monitoring and assessment* 191(3): 1-15.
- Mishra, S., L. B. Chaudhary, M. K. Jain, V. Kumar and S. K. Behera (2019). "Interaction of abiotic factor on soil CO₂ efflux in three forest communities in tropical deciduous forest from India." *Environmental monitoring and assessment* 191(3): 1-15.
- Missik, J. E. (2020). Impacts of Varying Climate Conditions and Groundwater Accessibility on Semiarid Ecosystem Fluxes PhD Thesis, Washington State University.
- Moinet, G. Y. K. and P. Millard (2020). "Temperature

- sensitivity of decomposition: Discrepancy between field and laboratory estimates is not due to sieving the soil." *Geoderma* 374: 114444.
- Moinet, G. Y. K., M. Moinet, J. E. Hunt, C. Rumpel, A. Chabbi and P. Millard (2020). "Temperature sensitivity of decomposition decreases with increasing soil organic matter stability." *Science of the Total Environment* 704: 135460.
- Moitinho, M. R., A. S. Ferraudo, A. R. Panosso, E. da Silva Bicalho, D. D. B. Teixeira, M. de Andrade Barbosa, S. M. Tsai, B. M. F. Borges, F. de Souza Cannavan and J. A. M. de Souza (2021). "Effects of burned and unburned sugarcane harvesting systems on soil CO₂ emission and soil physical, chemical, and microbiological attributes." *CATENA* 196: 104903.
- Moitinho, M. R., M. P. Padovan, E. da Silva Bicalho, A. S. Ferraudo, D. D. B. Teixeira, A. S. R. de Souza Bahia, D. P. Pinheiro, L. N. Vasquez and N. La Scala Jr (2018). "Short-Term Soil CO₂ Emission and Soil Attributes Under Contrasting Sugarcane Cultivars." *Sugar Tech* 20(6): 658-668.
- Moitinho, M. R., D. D. B. Teixeira, E. da Silva Bicalho, A. R. Panosso, A. S. Ferraudo, G. T. Pereira, S. M. Tsai, B. M. F. Borges and N. La Scala Jr (2021). "Soil CO₂ emission and soil attributes associated with the microbiota of a sugarcane area in southern Brazil." *Scientific Reports* 11(1): 1-15.
- Montagnani, L., A. Badraghi, A. F. Speak, C. Wellstein, L. Borruso, S. Zerbe and D. Zanotelli (2019). "Evidence for a non-linear carbon accumulation pattern along an Alpine glacier retreat chronosequence in Northern Italy." *PeerJ* 7: e7703.
- Montagnani, L., A. Badraghi, A. F. Speak, C. Wellstein, L. Borruso, S. Zerbe and D. Zanotelli (2019). "Evidence for a non-linear carbon accumulation pattern along an Alpine glacier retreat chronosequence in Northern Italy." *PeerJ* 7: e7703.
- Montagnani, L., A. Badraghi, M. Ventura, A. Polo and L. Borruso (2021). "Soil respiration variation along an altitudinal gradient in Italian Alps: Disentangling forest structure and temperature effects." *bioRxiv*.
- Montagnani, L., A. Badraghi, M. Ventura, A. Polo and L. Borruso (2021). "Soil respiration variation along an altitudinal gradient in Italian Alps: Disentangling forest structure and temperature effects." *bioRxiv*.
- Moraes, C. A., J. P. R. Bueno, M. R. B. de Mattos Nascimento, F. H. Litz, L. R. M. Gotardo and E. C. Guimarães (2019). "Bone parameters and organ morphometry of two broiler chicken lines exposed to heat for different periods." *Semina: Ciências Agrárias* 40(5): 2007-2016.
- Mosharrof, M., M. Uddin, S. Jusop, M. F. Sulaiman, S. M. Shamsuzzaman and A. N. A. Haque (2021). "Changes in acidic soil chemical properties and carbon dioxide emission due to biochar and lime treatments." *Agriculture* 11(3): 219.
- Mukhopadhyay, S. and S. K. Maiti (2018). *Techniques for Quantative Evaluation of Mine Site Reclamation Success: Case Study. Bio-Geotechnologies for Mine Site Rehabilitation*, Elsevier: 415-438.
- Myers, M., C. White, B. Pejicic, A. Feitz, J. Roberts, Y.-Y. Oh, L. Xu, L. Ricard, K. Michael and A. Avijegon (2020). "CSIRO In-Situ Lab: A multi-pronged approach to surface gas and groundwater monitoring at geological CO₂ storage sites." *Chemical Geology* 545: 119642.
- Myers, M., C. White, B. Pejicic, A. Feitz, J. Roberts, Y.-Y. Oh, L. Xu, L. Ricard, K. Michael and A. Avijegon (2020). "CSIRO In-Situ Lab: A multi-pronged approach to surface gas and groundwater monitoring at geological CO₂ storage sites." *Chemical Geology* 545: 119642.
- Nascimento, M., F. H. Litz, L. R. M. Gotardo and E. C. Guimarães (2019). "Bone parameters and organ morphometry of two broiler chicken lines exposed to heat for different periods Parâmetros ósseos e morfometria de órgãos de duas linhagens de frangos de corte mantidos sob diferentes tempos de exposição ao calor." *Semina: Ciências Agrárias, Londrina* 40(5): 2007-2016.
- Ney, P. and A. Graf (2018). "High-resolution vertical profile measurements for carbon dioxide and water vapour concentrations within and above crop canopies." *Boundary-layer meteorology* 166(3): 449-473.
- Ney, P., A. Graf, H. Bogena, B. Diekkrüger, C. Drüe, O. Esser, G. Heinemann, A. Klosterhalfen, K. Pick and T. Pütz (2019). "CO₂ fluxes before and after partial deforestation of a Central European spruce forest." *Agricultural and forest meteorology* 274: 61-74.
- Nogueira, D. C. S., R. F. R. Tavanti, R. Montanari, N. L. S. Júnior and A. R. Panosso (2020). "Variabilidade espacial da emissão de CO₂ em sistema silvipastoril e pastagem degradada na região do Cerrado." *Cadernos de Agroecologia* 15(1).

- Nomura, D., M. A. Granskog, A. Fransson, M. Chierici, A. Silyakova, K. I. Ohshima, L. Cohen, B. Delille, S. R. Hudson and G. S. Dieckmann (2018). "CO₂ flux over young and snow-covered Arctic pack ice in winter and spring." *Biogeosciences* 15(11): 3331-3343.
- Nomura, D., P. Wongpan, T. Toyota, T. Tanikawa, Y. Kawaguchi, T. Ono, T. Ishino, M. Tozawa, T. P. Tamura and I. S. Yabe (2020). "Saroma-ko Lagoon Observations for sea ice Physico-chemistry and Ecosystems 2019 (SLOPE2019)(サロマ湖における海水の物理・化学・生物学研究)." *Bulletin of Glaciological Research* 38: 1-12.
- Nomura, D., P. Wongpan, T. Toyota, T. Tanikawa, Y. Kawaguchi, T. Ono, T. Ishino, M. Tozawa, T. P. Tamura and I. S. Yabe (2020). "Saroma-ko Lagoon Observations for sea ice Physico-chemistry and Ecosystems 2019 (SLOPE2019)(サロマ湖における海水の物理・化学・生物学研究)." *Bulletin of Glaciological Research* 38: 1-12.
- Nottingham, A., A. Cheesman, T. Riutta, C. E. Doughty, W. H. Huasco, N. Majalap, Y. Malhi and Y. A. Teh (2020). "Large contribution of recent photosynthate to soil respiration in Dipterocarpaceae-dominated tropical forest revealed by girdling."
- Nottingham, A. T., P. Meir, E. Velasquez and B. L. Turner (2020). "Soil carbon loss by experimental warming in a tropical forest." *Nature* 584(7820): 234-237.
- O'Brien, P. L., T. J. Sauer, S. Archontoulis, D. L. Karlen and D. Laird (2020). "Corn stover harvest reduces soil CO₂ fluxes but increases overall C losses." *GCB Bioenergy* 12(11): 894-909.
- O'Brien, P. L., T. J. Sauer, S. Archontoulis, D. L. Karlen and D. Laird (2020). "Corn stover harvest reduces soil CO₂ fluxes but increases overall C losses." *GCB Bioenergy* 12(11): 894-909.
- Oh, Y.-Y., S.-T. Yun, S. Yu, H.-J. Kim and S.-C. Jun (2018). "Characterization of environmental drivers controlling the baseline of soil surface CO₂ flux using wavelet-based multiresolution state-space model and wavelet denoising." *Energy Procedia* 154: 157-162.
- Oh, Y.-Y., S.-T. Yun, S. Yu, H.-J. Kim and S.-C. Jun (2019). "A novel wavelet-based approach to characterize dynamic environmental factors controlling short-term soil surface CO₂ flux: Application to a controlled CO₂ release test site (EIT) in South Korea." *Geoderma* 337: 76-90.
- Oliveira, C. F. (2018). "Variabilidade espacial da emissão de CO₂ e estoque de carbono do solo em áreas de eucalipto e sistema silvipastoril."
- Ortas, I. and A. Bykova (2020). "Effects of long-term phosphorus fertilizer applications on soil carbon and CO₂ flux." *Communications in Soil Science and Plant Analysis* 51(17): 2270-2279.
- Owens, V. N. (2018). Sun Grant/DOE Regional Feedstock Partnership: Final Technical Report, South Dakota State Univ., Brookings, SD (United States).
- Pang, L., F. Song, X. Song, X. Guo, Y. Lu, S. Chen, F. Zhu, N. Zhang, J. Zou and P. Zhang (2021). "Effects of different types of humic acid isolated from coal on soil NH₃ volatilization and CO₂ emissions." *Environmental Research* 194: 110711.
- Peng, Y., G.-t. Chen, S. Li, H.-l. Hu, T.-x. Hu, L. Liu, Y. Tang and L.-h. Tu (2018). "Nitrogen additions reduce rhizospheric and heterotrophic respiration in a subtropical evergreen broad-leaved forest." *Plant and Soil* 431(1): 449-463.
- Peng, Y., S.-y. Song, Z.-y. Li, S. Li, G.-t. Chen, H.-l. Hu, J.-l. Xie, G. Chen, Y.-l. Xiao and L. Liu (2020). "Influences of nitrogen addition and aboveground litter-input manipulations on soil respiration and biochemical properties in a subtropical forest." *Soil Biology and Biochemistry* 142: 107694.
- Pereira, M. M. (2019). "Frequência e doses de biofertilizante via fertirrigação no cultivo da bananeira e sua relação com os atributos do solo."
- Perez-Quezada, J. F., J. L. Celis-Diez, C. E. Brito, A. Gaxiola, M. Nuñez-Avila, F. I. Pugnaire and J. J. Armesto (2018). "Carbon fluxes from a temperate rainforest site in southern South America reveal a very sensitive sink." *Ecosphere* 9(4): e02193.
- Perez-Quezada, J. F., J. L. Celis-Diez, C. E. Brito, A. Gaxiola, M. Nuñez-Avila, F. I. Pugnaire and J. J. Armesto (2018). "Carbon fluxes from a temperate rainforest site in southern South America reveal a very sensitive sink." *Ecosphere* 9(4): e02193.
- Perez-Quezada, J. F., P. Urrutia, J. Olivares-Rojas, A. Meijide, E. P. Sánchez-Cañete and A. Gaxiola (2021). "Long term effects of fire on the soil greenhouse gas balance of an old-growth temperate rainforest." *Science of The Total Environment* 755: 142442.
- Perez-Quezada, J. F., P. Urrutia, J. Olivares-Rojas, A. Meijide, E. P. Sánchez-Cañete and A. Gaxiola (2021). "Long term effects of fire on the soil greenhouse gas

- balance of an old-growth temperate rainforest." *Science of The Total Environment* 755: 142442.
- Petersen, S. O., R. Well, A. Taghizadeh-Toosi and T. J. Clough (2020). "Seasonally distinct sources of N₂O in acid organic soil drained for agriculture as revealed by N₂O isotopomer analysis." *Biogeochemistry* 147(1): 15-33.
- Petrakis, S., J. Barba, B. Bond-Lamberty and R. Vargas (2018). "Using greenhouse gas fluxes to define soil functional types." *Plant and soil* 423(1): 285-294.
- Petrakis, S., J. Barba, B. Bond-Lamberty and R. Vargas (2018). "Using greenhouse gas fluxes to define soil functional types." *Plant and soil* 423(1): 285-294.
- Pierson, D., H. Peter-Contesse, R. D. Bowden, K. Nadelhoffer, K. Kayhani, L. Evans and K. Lajtha (2021). "Competing Processes Drive the Resistance of Soil Carbon to Alterations in Organic Inputs." *Frontiers in Environmental Science* 9: 93.
- Pierson, D., H. Peter-Contesse, R. D. Bowden, K. Nadelhoffer, K. Kayhani, L. Evans and K. Lajtha (2021). "Competing Processes Drive the Resistance of Soil Carbon to Alterations in Organic Inputs." *Frontiers in Environmental Science* 9: 93.
- Polosukhina, D. A., N. N. Koshurnikova, A. S. Prokushkin and A. V. Makhnykina (2018). "Influence of precipitation on CO₂ soil emission in pine forests of the Central Siberia boreal zone."
- Powell, E. B., J. R. Krause, R. M. Martin and E. B. Watson (2020). "Pond excavation reduces coastal wetland carbon dioxide assimilation." *Journal of Geophysical Research: Biogeosciences* 125(2): e2019JG005187.
- Powell, E. B., E. B. Watson, K. Raper and R. Martin (2018). *The Effect of Open Marsh Water Management Practices on the Carbon Balance of Tidal Marshes in Barnegat Bay, New Jersey*, Drexel University.
- Pronk, G. J., A. Mellage, T. Milojevic, C. M. Smeaton, K. Engel, J. D. Neufeld, F. Rezanezhad and P. Van Cappellen (2020). "Carbon turnover and microbial activity in an artificial soil under imposed cyclic drainage and imbibition." *Vadose Zone Journal* 19(1): e20021.
- Qian, L., J. Yan, Y. Hu, L. Gao, P. Wu and L. Wang (2019). "Spatial distribution patterns of annual soil carbon accumulation and carbon storage in the Jiuduansha wetland of the Yangtze River estuary." *Environmental monitoring and assessment* 191(12): 1-11.
- Qubaja, R., M. Amer, F. Tatarinov, E. Rotenberg, Y. Preisler, M. Sprintsin and D. Yakir (2020). "Partitioning evapotranspiration and its long-term evolution in a dry pine forest using measurement-based estimates of soil evaporation." *Agricultural and Forest Meteorology* 281: 107831.
- Qubaja, R., M. Amer, F. Tatarinov, E. Rotenberg, Y. Preisler, M. Sprintsin and D. Yakir (2020). "Partitioning evapotranspiration and its long-term evolution in a dry pine forest using measurement-based estimates of soil evaporation." *Agricultural and Forest Meteorology* 281: 107831.
- Qubaja, R., M. Amer, F. Tatarinov, E. Rotenberg, Y. Preisler, M. Sprintsin and D. Yakir (2020). "Partitioning evapotranspiration and its long-term evolution in a dry pine forest using measurement-based estimates of soil evaporation." *Agricultural and Forest Meteorology* 281: 107831.
- Qubaja, R., F. Tatarinov, E. Rotenberg and D. Yakir (2019). "Partitioning of canopy and soil CO₂ fluxes in a pine forests at the dry timberline." *Biogeosciences Discussions*: 1-25.
- Qubaja, R., F. Tatarinov, E. Rotenberg and D. Yakir (2019). "Partitioning of canopy and soil CO₂ fluxes in a pine forests at the dry timberline." *Biogeosciences Discussions*: 1-25.
- Qubaja, R., F. Tatarinov, E. Rotenberg and D. Yakir (2020). "Partitioning of canopy and soil CO₂ fluxes in a pine forest at the dry timberline across a 13-year observation period." *Biogeosciences* 17(3): 699-714.
- Qubaja, R., F. Tatarinov, E. Rotenberg and D. Yakir (2020). "Partitioning of canopy and soil CO₂ fluxes in a pine forest at the dry timberline across a 13-year observation period." *Biogeosciences* 17(3): 699-714.
- Ramos, J. C. d. A. (2018). "Emissão de CO₂, quantidade e qualidade do carbono do solo em sistemas agrícolas na região do Cerrado do Mato Grosso do Sul."
- Raposo, E., L. F. Brito, E. R. Janusckiewicz, L. F. Oliveira, J. Versuti, F. M. Assumpção, A. S. Cardoso, D. Siniscalchi, L. M. Delevatti and E. B. Malheiros (2020). "Greenhouse gases emissions from tropical grasslands affected by nitrogen fertilizer management." *Agronomy Journal* 112(6): 4666-4680.
- Rastogi, B., M. Berkelhammer, S. Wharton, M. E. Whelan, M. S. Itter, J. B. Leen, M. X. Gupta, D. Noone

- and C. J. Still (2018). "Large uptake of atmospheric OCS observed at a moist old growth forest: Controls and implications for carbon cycle applications." *Journal of Geophysical Research: Biogeosciences* 123(11): 3424-3438.
- Rastogi, B., M. Berkelhammer, S. Wharton, M. E. Whelan, F. C. Meinzer, D. Noone and C. J. Still (2018). "Ecosystem fluxes of carbonyl sulfide in an old-growth forest: temporal dynamics and responses to diffuse radiation and heat waves." *Biogeosciences* 15(23): 7127-7139.
- Rawat, M., K. Arunachalam and A. Arunachalam (2020). "Tree Species Influence Soil Respiration in a Temperate Forest of Uttarakhand Himalaya, India." *Journal of Sustainable Forestry*: 1-11.
- Rawat, M., K. Arunachalam, A. Arunachalam, J. M. Alatalo, U. Kumar, B. Simon, L. Hufnagel, E. Micheli and R. Pandey (2020). "Relative contribution of plant traits and soil properties to the functioning of a temperate forest ecosystem in the Indian Himalayas." *Catena* 194: 104671.
- Reicks, G. W., D. E. Clay, S. A. Clay, D. R. Joshi, J. Moriles-Miller, S. Westhoff, A. L. M. Daigh and S. A. Bruggeman (2021). "Winter cereal rye cover crop decreased n_2o -n emissions during early spring." *Agronomy Journal*.
- Reicks, G. W., D. E. Clay, S. A. Clay, D. R. Joshi, J. Moriles-Miller, S. Westhoff, A. L. M. Daigh and S. A. Bruggeman (2021). "Winter cereal rye cover crop decreased n_2o -n emissions during early spring." *Agronomy Journal*.
- Reinmann, A. B. and P. H. Templer (2018). "Increased soil respiration in response to experimentally reduced snow cover and increased soil freezing in a temperate deciduous forest." *Biogeochemistry* 140(3): 359-371.
- Reis, L. B. (2021). Estudo comparativo dos fluxos de CO_2 na interface solo-atmosfera em sistema agroflorestal com manejo contrastante no nordeste de Portugal PhD Thesis.
- Renchon, A. A., J. E. Drake, C. A. Macdonald, D. Sihi, N. Hinko-Najera, M. G. Tjoelker, S. K. Arndt, N. J. Noh, E. Davidson and E. Pendall (2021). "Concurrent measurements of soil and ecosystem respiration in a mature eucalypt woodland: advantages, lessons, and questions." *Journal of Geophysical Research: Biogeosciences* 126(3): e2020JG006221.
- Renchon, A. A., J. E. Drake, C. A. Macdonald, D. Sihi, N. Hinko-Najera, M. G. Tjoelker, S. K. Arndt, N. J. Noh, E. Davidson and E. Pendall (2021). "Concurrent measurements of soil and ecosystem respiration in a mature eucalypt woodland: advantages, lessons, and questions." *Journal of Geophysical Research: Biogeosciences* 126(3): e2020JG006221.
- Rigon, J. P. G., J. C. Calonego, C. A. Rosolem and N. L. Scala Jr (2018). "Cover crop rotations in no-till system: short-term CO_2 emissions and soybean yield." *Scientia Agricola* 75(1): 18-26.
- Rimas, R. I. (2020). "Within Pond Variations of Gas Fluxes and the Spatio-temporal Variations of Benthic Algae and Limnological Characteristics in Shallow Ponds Located in the Hudson Bay Lowlands (HBL), near Churchill, Manitoba."
- Rittl, T. F., L. Canisares, E. Sagrilo, K. Butterbach-Bahl, M. Dannenmann and C. E. P. Cerri (2020). "Temperature sensitivity of soil organic matter decomposition varies with biochar application and soil type." *Pedosphere* 30(3): 334-340.
- Roby, M. C., R. L. Scott, G. A. Barron-Gafford, E. P. Hamerlynck and D. J. P. Moore (2019). "Environmental and vegetative controls on soil CO_2 efflux in three semiarid ecosystems." *Soil Systems* 3(1): 6.
- Rodrigues, G. A. (2020). "Emissões de CO_2 e sua relação com atributos físicos de um latossolo fertirrigado com efluente de esgoto tratado e dois níveis de palha." *Sistemas & Gestão* 15(2): 190-198.
- Rodriguez, A. F. (2018). Carbon oxidation, characterization, and soil subsidence modeling in the organic soils of the everglades agricultural area PhD Thesis, University of Florida.
- Rodriguez, A. F., S. H. Daroub, S. Gerber, S. P. Jennewein and M. P. Singh (2021). "Water management effect on soil oxidation, greenhouse gas emissions, and nitrogen leaching in drained peat soils." *Soil Science Society of America Journal*.
- Rodriguez, A. F., S. H. Daroub, S. Gerber, S. P. Jennewein and M. P. Singh (2021). "Water management effect on soil oxidation, greenhouse gas emissions, and nitrogen leaching in drained peat soils." *Soil Science Society of America Journal*.
- Rosa, J. S. (2018). "A importância da disponibilidade de nutrientes para a dinâmica de carbono abaixo do solo na Amazônia Central."
- Ru, J., Y. Zhou, D. Hui, M. Zheng and S. Wan (2018).

- "Shifts of growing-season precipitation peaks decrease soil respiration in a semiarid grassland." *Global change biology* 24(3): 1001-1011.
- Sá, M. M. F., C. E. G. R. Schaefer, D. C. Loureiro, F. N. B. Simas, B. J. R. Alves, E. de Sá Mendonça, E. B. de Figueiredo, N. La Scala Jr and A. R. Panosso (2019). "Fluxes of CO₂, CH₄, and N₂O in tundra-covered and Nothofagus forest soils in the Argentinian Patagonia." *Science of The Total Environment* 659: 401-409.
- Sagar, R., G. Y. Li, J. S. Singh and S. Wan (2019). "Carbon fluxes and species diversity in grazed and fenced typical steppe grassland of Inner Mongolia, China." *Journal of Plant Ecology* 12(1): 10-22.
- Salim, M. G. (2020). "Sucessão ecológica microbiana em solos de recuo de geleira na Antártica sob a perspectiva dos ciclos do Carbono e Fósforo."
- Sánchez-Cañete, E. P., G. A. Barron-Gafford and J. Chorover (2018). "A considerable fraction of soil-respired CO₂ is not emitted directly to the atmosphere." *Scientific reports* 8(1): 1-10.
- Sbrana, A., P. Marianelli, M. Belgiorno, M. Sbrana and V. Ciani (2020). "Natural CO₂ degassing in the Mount Amiata volcanic-geothermal area." *Journal of Volcanology and Geothermal Research* 397: 106852.
- Schmidt-Hattenberger, C., W. Weinzierl, B. Wiese, M. Zimmer, M. Jordan, P. Eliasson, C. Ringstad, K. Hagby and A. Wuestefeld (2019). Monitoring concept for a CO₂ migration experiment at the Svelvik CO₂ Field Lab.
- Schnable, P. S. (2018). "Sarah E. Hill-Skinner¹, Wei Zhang², Teiming Ji³, Michael Castellano¹, Dan Nettleton², and." Genetic and environmental control of lignin biosynthesis and C emission from crop stover 1001: 118.
- Schulze-Sylvester, M. and A. Reineke (2019). "Elevated CO₂ levels impact fitness traits of vine mealybug *Planococcus ficus* Signoret, but not its parasitoid *Leptomastix dactylopii* Howard." *Agronomy* 9(6): 326.
- Sewell, P. (2018). "Seeing the forest for the soil: topographic controls on soil carbon dynamics in the boreal mixedwood forest."
- Sha, L., M. Teramoto, N. J. Noh, S. Hashimoto, M. Yang, M. Sanwangsri and N. Liang (2021). "Soil carbon flux research in the Asian region: Review and future perspectives." *Journal of Agricultural Meteorology* 77(1): 24-51.
- Shahzad, K., A. I. Bary, D. P. Collins, L. Chalker-Scott, M. Abid, H. Y. Sintim and M. Flury (2019). "Carbon dioxide and oxygen exchange at the soil-atmosphere boundary as affected by various mulch materials." *Soil and Tillage Research* 194: 104335.
- Shao, P., H. He, X. Zhang, H. Xie, X. Bao and C. Liang (2018). "Responses of microbial residues to simulated climate change in a semiarid grassland." *Science of The Total Environment* 644: 1286-1291.
- Shi, J., J. Gong, T.-t. Baoyin, Q. Luo, Z. Zhai, C. Zhu, B. Yang, B. Wang, Z. Zhang and X. Li (2021). "Short-term phosphorus addition increases soil respiration by promoting gross ecosystem production and litter decomposition in a typical temperate grassland in northern China." *CATENA* 197: 104952.
- Shu, S.-m., W.-z. Zhu, W.-z. Wang, M. Jia, Y.-y. Zhang and Z.-l. Sheng (2019). "Effects of tree size heterogeneity on carbon sink in old forests." *Forest Ecology and Management* 432: 637-648.
- Silva, D. M. N. d., L. C. Heitor, A. d. O. Candido, B. S. A. d. Moraes, G. S. d. Souza, J. B. S. Araújo and E. d. S. Mendonça (2020). "Carbon balance in organic conilon coffee intercropped with tree species and banana." *Revista Árvore* 44.
- Silva, D. M. N. d., L. C. Heitor, A. d. O. Candido, B. S. A. d. Moraes, G. S. d. Souza, J. B. S. Araújo and E. d. S. Mendonça (2020). "Carbon balance in organic conilon coffee intercropped with tree species and banana." *Revista Árvore* 44.
- Silva, E. F. d., M. R. Moitinho, D. D. B. Teixeira, E. d. S. Bicalho, G. A. F. Castioni, G. T. Pereira and N. La Scala (2020). "Short-term spatiotemporal variation of soil CO₂ emission, temperature, moisture and aeration in sugarcane field reform areas under the influence of precipitation events." *Soil Use and Management* 36(4): 658-670.
- Silva, P. A. d. (2018). "Distribuição espacial da estabilidade do carbono do solo, descrita pelo fator K, em áreas de cana-de-açúcar na região central do Brasil."
- Soares, J. V. (2020). Characterization of gas migration and surface emissions through a controlled release experiment at the Hudson's Hope field research station, BC, Canada PhD Thesis, University of British Columbia.
- Soares, J. V. (2020). Characterization of gas migration and surface emissions through a controlled release experiment at the Hudson's Hope field research

- station, BC, Canada PhD Thesis, University of British Columbia.
- Soba, D., T. Shu, G. B. Runion, S. A. Prior, F. B. Fritsch, I. Aranjuelo and A. Sanz-Saez (2020). "Effects of elevated [CO₂] on photosynthesis and seed yield parameters in two soybean genotypes with contrasting water use efficiency." *Environmental and Experimental Botany* 178: 104154.
- Song, H., T. Yan, J. Wang and Z. Sun (2020). "Precipitation variability drives the reduction of total soil respiration and heterotrophic respiration in response to nitrogen addition in a temperate forest plantation." *Biology and Fertility of Soils* 56(2): 273-279.
- Song, J., S. Wan, S. Piao, D. Hui, M. J. Hovenden, P. Ciais, Y. Liu, Y. Liu, M. Zhong and M. Zheng (2019). "Elevated CO₂ does not stimulate carbon sink in a semi-arid grassland." *Ecology letters* 22(3): 458-468.
- Souza, L. D. (2020). "Emissão de CO₂ do solo em pastos degradado, manejado e consórcio silvipastoril no Cerrado."
- Stagnari, F., G. Pagnani, A. Galieni, S. D'Egidio, F. Matteucci and M. Pisante (2020). "Effects of conservation agriculture practices on soil quality indicators: a case-study in a wheat-based cropping systems of Mediterranean areas." *Soil Science and Plant Nutrition* 66(4): 624-635.
- Stubbs, A. R. (2020). *Enhanced Weathering and Carbonation of Kimberlite Residues from South African Diamond Mines: Implications for CO₂ Sequestration* PhD Thesis, Trent University (Canada).
- Stubbs, A. R. (2020). *Enhanced Weathering and Carbonation of Kimberlite Residues from South African Diamond Mines: Implications for CO₂ Sequestration* PhD Thesis, Trent University (Canada).
- Su, X., X. Su, G. Zhou, Z. Du, S. Yang, M. Ni, H. Qin, Z. Huang, X. Zhou and J. Deng (2020). "Drought accelerated recalcitrant carbon loss by changing soil aggregation and microbial communities in a subtropical forest." *Soil Biology and Biochemistry* 148: 107898.
- Subke, J.-A., C. S. Moody, T. C. Hill, N. Voke, S. Toet, P. Ineson and Y. A. Teh (2018). "Rhizosphere activity and atmospheric methane concentrations drive variations of methane fluxes in a temperate forest soil." *Soil Biology and Biochemistry* 116: 323-332.
- Subke, J.-A., C. S. Moody, T. C. Hill, N. Voke, S. Toet, P. Ineson and Y. A. Teh (2018). "Rhizosphere activity and atmospheric methane concentrations drive variations of methane fluxes in a temperate forest soil." *Soil Biology and Biochemistry* 116: 323-332.
- Suja, G., J. Sreekumar, G. Byju, A. N. Jyothi and S. S. Veena (2021). "Weed cloth, an option for integrated weed management for short-duration cassava." *Agronomy Journal* 113(2): 1895-1908.
- Sulaiman, M. F., S. M. Shamsuzzaman and A. N. A. Haque (2021). *Changes in Acidic Soil Chemical Properties and Carbon Dioxide Emission Due to Biochar and Lime Treatments*. *Agriculture* 2021, 11, 219, s Note: MDPI stays neutral with regard to jurisdictional claims in published ...
- Sun, B., L. Yan, M. Jiang, X. Li, G. Han and J. Xia (2021). "Reduced magnitude and shifted seasonality of CO₂ sink by experimental warming in a coastal wetland." *Ecology* 102(2): e03236.
- Sun, Q., S. Guo, R. Wang and J. Song (2021). "Responses of bacterial communities and their carbon dynamics to subsoil exposure on the Loess Plateau." *Science of The Total Environment* 756: 144146.
- Sun, Q., Y. Hu, R. Wang, S. Guo, L. Yao and P. Duan (2018). "Spatial distribution of microbial community composition along a steep slope plot of the Loess Plateau." *Applied Soil Ecology* 130: 226-236.
- Sun, Q., W. S. Meyer and P. Marschner (2018). "Repeated rainfall in summer induces prolonged high soil respiration in a semi-arid floodplain woodland." *Ecohydrology* 11(7): e1984.
- Sun, Q., W. S. Meyer and P. Marschner (2018). "Repeated rainfall in summer induces prolonged high soil respiration in a semi-arid floodplain woodland." *Ecohydrology* 11(7): e1984.
- Sun, Q., R. Wang, Y. Hu, L. Yao and S. Guo (2018). "Spatial variations of soil respiration and temperature sensitivity along a steep slope of the semiarid Loess Plateau." *PloS one* 13(4): e0195400.
- Sun, Q., R. Wang, Y. Wang, L. Du, M. Zhao, X. Gao, Y. Hu and S. Guo (2018). "Temperature sensitivity of soil respiration to nitrogen and phosphorous fertilization: Does soil initial fertility matter?" *Geoderma* 325: 172-182.

- Sun, S., Y. Wu, J. Zhang, G. Wang, T. H. DeLuca, W. Zhu, A. Li, M. Duan and L. He (2019). "Soil warming and nitrogen deposition alter soil respiration, microbial community structure and organic carbon composition in a coniferous forest on eastern Tibetan Plateau." *Geoderma* 353: 283-292.
- Sun, W., X. Zhao, X. Gao, W. Shi, Q. Ling and K. H. M. Siddique (2021). "Impacts of land use conversion on the response of soil respiration to precipitation in drylands: A case study with four-yearlong observations." *Agricultural and Forest Meteorology* 304: 108426.
- Sun, W., X. Zhao, X. Gao, W. Shi, Q. Ling and K. H. M. Siddique (2021). "Impacts of land use conversion on the response of soil respiration to precipitation in drylands: A case study with four-yearlong observations." *Agricultural and Forest Meteorology* 304: 108426.
- Sun, W., X. Zhao, Q. Ling, H. Li and X. Gao (2018). "Revegetation modifies patterns of temporal soil respiration responses to extreme-drying-and-rewetting in a semiarid ecosystem." *Plant and Soil* 433(1): 227-241.
- Sun, W., X. Zhao, Q. Ling, H. Li and X. Gao (2018). "Revegetation modifies patterns of temporal soil respiration responses to extreme-drying-and-rewetting in a semiarid ecosystem." *Plant and Soil* 433(1): 227-241.
- Sutitarnnontr, P. (2020). "Determination of Gas Emission Characteristics from Animal Wastes Using a Multiplexed Portable FTIR-Surface Chamber System."
- Sutitarnnontr, P. (2020). "Determination of Gas Emission Characteristics from Animal Wastes Using a Multiplexed Portable FTIR-Surface Chamber System."
- Tavares, R. L. M., K. Spokas, K. Hall, E. Colosky, Z. M. d. Souza and N. L. Scala (2018). "Impacto do manejo do residuo de cana-de-açúcar na produção potencial de gases do efeito estufa no solo." *Ciência e Agrotecnologia* 42(2): 195-203.
- Tavares, R. L. M., K. Spokas, K. Hall, E. Colosky, Z. M. d. Souza and N. L. Scala (2018). "Sugarcane residue management impact soil greenhouse gas." *Ciência e Agrotecnologia* 42(2): 195-203.
- Tezza, L., N. Vendrame and A. Pitacco (2019). "Disentangling the carbon budget of a vineyard: The role of soil management." *Agriculture, Ecosystems & Environment* 272: 52-62.
- Tezza, L., N. Vendrame and A. Pitacco (2019). "Disentangling the carbon budget of a vineyard: The role of soil management." *Agriculture, Ecosystems & Environment* 272: 52-62.
- Tezza, L., N. Vendrame and A. Pitacco (2019). "Disentangling the carbon budget of a vineyard: The role of soil management." *Agriculture, Ecosystems & Environment* 272: 52-62.
- Thies, S. (2018). "Greenhouse gas emissions from soil applied nitrogen fertilizers."
- Thies, S. (2018). "Greenhouse gas emissions from soil applied nitrogen fertilizers."
- Thies, S., S. Bruggeman, S. A. Clay, U. Mishra, G. Hatfield, S. Kumar and D. E. Clay (2019). "Midmorning point sampling may not accurately represent nitrous oxide emissions following fertilizer applications." *Soil Science Society of America Journal* 83(2): 339-347.
- Thies, S., D. R. Joshi, S. A. Bruggeman, S. A. Clay, U. Mishra, J. Morile-Miller and D. E. Clay (2019). "Fertilizer timing affects nitrous oxide, carbon dioxide, and ammonia emissions from soil." *Soil Science Society of America Journal* 84(1).
- Thies, S., D. R. Joshi, S. A. Bruggeman, S. A. Clay, U. Mishra, J. Morile-Miller and D. E. Clay (2019). "Fertilizer timing affects nitrous oxide, carbon dioxide, and ammonia emissions from soil." *Soil Science Society of America Journal* 84(1).
- Thomazini, A., M. R. Francelino, A. B. Pereira, A. L. Schünemann, E. d. S. Mendonça, R. F. M. Michel and C. E. G. R. Schaefer (2020). "The current response of soil thermal regime and carbon exchange of a paraglacial coastal land system in maritime Antarctica." *Land Degradation & Development* 31(5): 655-666.
- Thomazini, A., M. R. Francelino, A. B. Pereira, A. L. Schünemann, E. d. S. Mendonça, R. F. M. Michel and C. E. G. R. Schaefer (2020). "The current response of soil thermal regime and carbon exchange of a paraglacial coastal land system in maritime Antarctica." *Land Degradation & Development* 31(5): 655-666.
- Tian, J., N. Zong, I. P. Hartley, N. He, J. Zhang, D. Powlson, J. Zhou, Y. Kuzyakov, F. Zhang and G. Yu (2021). "Microbial metabolic response to winter warming stabilizes soil carbon." *Global Change Biology*

- 27(10): 2011-2028.
- Tian, Q., D. Wang, Y. Tang, Y. Li, M. Wang, C. Liao and F. Liu (2019). "Topographic controls on the variability of soil respiration in a humid subtropical forest." *Biogeochemistry* 145(1): 177-192.
- Tipton, Z. (2018). "Soil Organic Carbon and Mineralization Rates at the Woolsey Wet Prairie Mitigation Site in Fayetteville, Arkansas."
- Tong, D., H. Xiao, Z. Li, X. Nie and J. Huang (2020). "Stand ages adjust fluctuating patterns of soil respiration and decrease temperature sensitivity after revegetation." *Soil Science Society of America Journal* 84(3): 760-774.
- Tong, L. S., H. B. Xiao, K. Xu, Y. M. Zhan and Z. H. Shi (2021). "Stoichiometric regulations of soil respiration and its temperature sensitivity under erosion and deposition conditions." *Agriculture, Ecosystems & Environment* 319: 107507.
- Tong, L. S., H. B. Xiao, K. Xu, Y. M. Zhan and Z. H. Shi (2021). "Stoichiometric regulations of soil respiration and its temperature sensitivity under erosion and deposition conditions." *Agriculture, Ecosystems & Environment* 319: 107507.
- Tremblay, S. L., L. D'Orangeville, M.-C. Lambert and D. Houle (2018). "Transplanting boreal soils to a warmer region increases soil heterotrophic respiration as well as its temperature sensitivity." *Soil Biology and Biochemistry* 116: 203-212.
- Trimble, B. R., F. J. Calderon, S. R. Poulson and P. S. J. Verburg (2018). "Conversion of a Semiarid Nevada Soil to Irrigated Agriculture Preferentially Removes Labile Carbon." *Soil Systems* 2(3): 38.
- Van De Ven, C. J. C., K. H. Scully, M. A. Frame, N. J. Sihota and K. U. Mayer (2021). "Impacts of water table fluctuations on actual and perceived natural source zone depletion rates." *Journal of Contaminant Hydrology* 238: 103771.
- Van De Ven, C. J. C., K. H. Scully, M. A. Frame, N. J. Sihota and K. U. Mayer (2021). "Impacts of water table fluctuations on actual and perceived natural source zone depletion rates." *Journal of Contaminant Hydrology* 238: 103771.
- Van der Linden, F. C., J. L. Tison, W. Champenois, S. Moreau, G. Carnat, M. Kotovitch, F. Fripiat, F. Deman, A. Roukaerts and F. Dehairs (2020). "Sea ice CO₂ dynamics across seasons: Impact of processes at the Interfaces." *Journal of Geophysical Research: Oceans* 125(6): e2019JC015807.
- Vandecasteele, B., L. Blindeman, F. Amery, C. Pieters, S. Ommeslag, K. Van Loo, C. De Tender and J. Debode (2020). "Grow-Store-Steam-Re-peat: Reuse of spent growing media for circular cultivation of *Chrysanthemum*." *Journal of Cleaner Production* 276: 124128.
- Vandecasteele, B., S. Pot, K. Maenhout, I. Delcour, K. Vancampenhout and J. Debode (2021). "Acidification of composts versus woody management residues: optimizing biological and chemical characteristics for a better fit in growing media." *Journal of Environmental Management* 277: 111444.
- Vandecasteele, B., K. Van Loo, F. Amery, I. Delcour, E. Pauwels, E. Gorrens, J. Ceusters, K. Vancampenhout and J. Debode (2019). Peat replacement by composts, plant fibers or management residues: a preliminary classification of methods for stability assessment.
- Vandecasteele, B., K. Van Loo, L. Blindeman, C. Pieters and J. Debode (2019). CO₂ flux measurements for assessing the stability of spent growing media for reuse for cultivation of ornamentals as part of a circular economy.
- Vantellingen, J. and S. C. Thomas (2021). "Skid Trail Effects on Soil Methane and Carbon Dioxide Flux in a Selection-Managed Northern Hardwood Forest." *Ecosystems*: 1-20.
- Vantellingen, J. and S. C. Thomas (2021). "Skid Trail Effects on Soil Methane and Carbon Dioxide Flux in a Selection-Managed Northern Hardwood Forest." *Ecosystems*: 1-20.
- Veras, L. M. (2019). "Anisotropia da variabilidade espacial da emissão de CO₂ do solo sob cultivo de cana-de-açúcar e eucalipto."
- Veverskytė, A. (2020). "Biologinių preparatų ir jų derinių įtaka žemiinių kviečių ligotumui." *Organizacinis komitetas*: 96.
- Vilà-Guerau de Arellano, J., P. Ney, O. Hartogensis, H. De Boer, K. Van Diepen, D. Emin, G. De Groot, A. Klosterhalfen, M. Langensiepen and M. Matveeva (2020). "CloudRoots: integration of advanced instrumental techniques and process modelling of sub-hourly and sub-kilometre land-atmosphere interactions." *Biogeosciences* 17(17): 4375-4404.
- Vitra, A. (2019). Responses of permanent grasslands to drought during the plant growing season: combining agronomic, functional and ecophysiological

- approaches, EPFL.
- Vitra, A. (2019). Responses of permanent grasslands to drought during the plant growing season: combining agronomic, functional and ecophysiological approaches, EPFL.
- Waldo, S., E. S. Russell, K. Kostyanovsky, S. N. Pressley, P. T. O'Keeffe, D. R. Huggins, C. O. Stöckle, W. L. Pan and B. K. Lamb (2019). "N₂O emissions from two agroecosystems: High spatial variability and long pulses observed using static chambers and the flux-gradient technique." *Journal of Geophysical Research: Biogeosciences* 124(7): 1887-1904.
- Wallwork, A. (2021). Linking tree community functional change with soil carbon dynamics during secondary succession in a naturally regenerating tropical forest in Panama PhD Thesis, Lancaster University (United Kingdom).
- Wang, C., F. Ren, X. Zhou, W. Ma, C. Liang, J. Wang, J. Cheng, H. Zhou and J.-S. He (2020). "Variations in the nitrogen saturation threshold of soil respiration in grassland ecosystems." *Biogeochemistry* 148(3): 311-324.
- Wang, C., F. Ren, X. Zhou, W. Ma, C. Liang, J. Wang, J. Cheng, H. Zhou and J.-S. He (2020). "Variations in the nitrogen saturation threshold of soil respiration in grassland ecosystems." *Biogeochemistry* 148(3): 311-324.
- Wang, D., J. Chen, A. J. Felton, L. Xia, Y. Zhang, Y. Luo, X. Cheng and J. Cao (2021). "Post-fire co-stimulation of gross primary production and ecosystem respiration in a meadow grassland on the Tibetan Plateau." *Agricultural and Forest Meteorology* 303: 108388.
- Wang, D., X. Yu, G. Jia, W. Qin and Z. Shan (2019). "Variations in Soil Respiration at Different Soil Depths and Its Influencing Factors in Forest Ecosystems in the Mountainous Area of North China." *Forests* 10(12): 1081.
- Wang, G., W. Huang, G. Zhou, M. A. Mayes and J. Zhou (2020). "Modeling the processes of soil moisture in regulating microbial and carbon-nitrogen cycling." *Journal of Hydrology* 585: 124777.
- Wang, G., F. Li, Y. Peng, J. Yu, D. Zhang, G. Yang, K. Fang, J. Wang, A. Mohammat and G. Zhou (2019). "Responses of soil respiration to experimental warming in an alpine steppe on the Tibetan Plateau." *Environmental Research Letters* 14(9): 094015.
- Wang, G., X. Wu, L. Mo and J. Zhao (2018). "SCFSen: A Sensor Node for Regional Soil Carbon Flux Monitoring." *Sensors* 18(11): 3986.
- Wang, J., Y. Liu, W. Cao, W. Li, X. Wang, D. Zhang, S. Shi, D. Pan and W. Liu (2020). "Effects of grazing exclusion on soil respiration components in an alpine meadow on the north-eastern Qinghai-Tibet Plateau." *Catena* 194: 104750.
- Wang, J., G. Wang, Y. Fu, X. Chen and X. Song (2019). "Short-term effects of nitrogen deposition on soil respiration components in two alpine coniferous forests, southeastern Tibetan Plateau." *Journal of Forestry Research* 30(3): 1029-1041.
- Wang, R., Y. Hu, Y. Wang, S. Ali, Q. Liu and S. Guo (2019). "Nitrogen application increases soil respiration but decreases temperature sensitivity: Combined effects of crop and soil properties in a semiarid agroecosystem." *Geoderma* 353: 320-330.
- Wang, R., Q. Sun, Y. Wang, W. Zheng, L. Yao, Y. Hu and S. Guo (2018). "Contrasting responses of soil respiration and temperature sensitivity to land use types: Cropland vs. apple orchard on the Chinese Loess Plateau." *Science of the Total Environment* 621: 425-433.
- Wang, W., H. Cai, X. Deng, C. Lu and L. Zhang (2021). *Data Mining in Environments Sensing. Interdisciplinary Evolution of the Machine Brain*, Springer: 35-57.
- Wang, W., H. Cai, X. Deng, C. Lu and L. Zhang (2021). *Interdisciplinary Evolution of the Machine Brain: Vision, Touch & Mind*, Springer Nature.
- Wang, W., H. Liu, J. Zhang, Z. Li, L. Wang, Z. Wang, Y. Wu, Y. Wang and C. Liang (2020). "Effect of grazing types on community-weighted mean functional traits and ecosystem functions on Inner Mongolian steppe, China." *Sustainability* 12(17): 7169.
- Wang, X., Y. Chen, Y. Yan, Z. Wan, R. Chao, R. Gu, J. Yang and Q. Gao (2018). "Ecological responses of Stipa steppe in Inner Mongolia to experimentally increased temperature and precipitation. 3: Soil respiration." *The Rangeland Journal* 40(2): 153-158.
- Wang, X. and J. Hu (2020). *Study on Principles of Soil Respiration Monitoring and Calibration Improvement Methods*, IOP Publishing.
- Wang, X., X. Luo, H. Jia and H. Zheng (2018). "Dynamic characteristics of soil respiration in Yellow River Delta wetlands, China." *Physics and Chemistry of the Earth, Parts A/B/C* 103: 11-18.

- Wang, Y., F. Dou, K. H. Paustian, S. J. Del Grosso, J. O. Storlien, J. P. Wight and F. M. Hons (2020). "Simulating impacts of nitrogen fertilization using DAYCENT to optimize economic returns and environmental services from bioenergy sorghum production." *Agronomy Journal* 112(6): 4861-4878.
- Wang, Y., X. Li, C. Zhang, X. Wu, E. Du, H. Wu, X. Yang, P. Wang, Y. Bai and Y. Wu (2019). "Responses of soil respiration to rainfall addition in a desert ecosystem: Linking physiological activities and rainfall pattern." *Science of The Total Environment* 650: 3007-3016.
- Wang, Y., X.-y. Li, X.-c. Wu, H.-w. Wu, J.-h. Zhang, Y.-n. Wu and C.-y. Zhao (2019). "Temporal changes of soil respiration in a subalpine meadow in the Heihe River Basin, Northwest China." *Catena* 178: 267-275.
- Wang, Y., S. Liu, J. Luan, C. Chen, C. Cai, F. Zhou, Y. Di and X. Gao (2021). "Nitrogen Addition Exacerbates the Negative Effect of Throughfall Reduction on Soil Respiration in a Bamboo Forest." *Forests* 12(6): 724.
- Wang, Y., S. Liu, J. Wang, S. X. Chang, J. Luan, Y. Liu, H. Lu and X. Liu (2020). "Microbe-mediated attenuation of soil respiration in response to soil warming in a temperate oak forest." *Science of The Total Environment* 711: 134563.
- Wang, Y., W. Luo, G. Zeng, H. Peng, A. Cheng, L. Zhang, X. Cai, J. Chen, Y. Lyu and H. Yang (2020). "Characteristics of carbon, water, and energy fluxes on abandoned farmland revealed by critical zone observation in the karst region of southwest China." *Agriculture, Ecosystems & Environment* 292: 106821.
- Wang, Y., C. Song, H. Liu, S. Wang, H. Zeng, C. Luo and J.-S. He (2021). "Precipitation determines the magnitude and direction of interannual responses of soil respiration to experimental warming." *Plant and Soil* 458(1): 75-91.
- Wang, Z., Q. Wu, B. Fan, X. Zheng, J. Zhang, W. Li and L. Guo (2019). "Effects of mulching biodegradable films under drip irrigation on soil hydrothermal conditions and cotton (*Gossypium hirsutum* L.) yield." *Agricultural water management* 213: 477-485.
- Wang, Z., H. Yao, D. Wang, M. Zhou, P. Zhao and A. L. James "Effects of different management treatments of post-fire soil respiration in a mixed forest ecosystem in northeastern China Auswirkungen unterschiedlicher Bewirtschaftung auf die Bodenatmung nach einem Waldbrand in einem Mischwaldökosystem im Nordosten Chinas."
- Wang, Z.-Y., J.-B. Xie, Y.-G. Wang and Y. Li (2020). "Biotic and Abiotic Contribution to Diurnal Soil CO₂ Fluxes from Saline/Alkaline Soils." *Scientific reports* 10(1): 1-10.
- Warren, C. (2021). "What are the products of enzymatic cleavage of organic N?" *Soil Biology and Biochemistry* 154: 108152.
- Warren, C. R. (2020). "Pools and fluxes of osmolytes in moist soil and dry soil that has been re-wet." *Soil Biology and Biochemistry* 150: 108012.
- Weber, T. L., C. M. Romero and M. D. MacKenzie (2021). "Biochar-manure changes soil carbon mineralization in a Gray Luvisol used for agricultural production." *Canadian Journal of Soil Science*: 1-5.
- Weber, T. L. Y., C. M. Romero and M. D. MacKenzie "Biochar-manure changes N mineralization in a Gray Luvisol used for agricultural production."
- Wei, J., C.-H. Chen, J.-Y. Wang and X.-F. Wen (2020). "Theory, hypothesis and application advance in chamber-based technology and methods for flux measurement." *Chinese Journal of Plant Ecology* 44(4): 318.
- Wei, S., L. Tie, J. Liao, X. Liu, M. Du, S. Lan, X. Li, C. Li, H. Zhan and C. Huang (2020). "Nitrogen and phosphorus co-addition stimulates soil respiration in a subtropical evergreen broad-leaved forest." *Plant and Soil* 450(1): 171-182.
- Wen, L., W. Jinlan, Z. Xiaojiao, S. Shangli and C. Wenxia (2018). "Effect of degradation and rebuilding of artificial grasslands on soil respiration and carbon and nitrogen pools on an alpine meadow of the Qinghai-Tibetan Plateau." *Ecological Engineering* 111: 134-142.
- Wepking, C. (2018). *Soil microbial function in a time of global change: effect of dairy antibiotics on soil microbial communities and ecosystem function* PhD Thesis, Virginia Tech.
- Wepking, C., B. Badgley, J. E. Barrett, K. F. Knowlton, J. M. Lucas, K. J. Minick, P. P. Ray, S. E. Shawver and M. S. Strickland (2019). "Prolonged exposure to manure from livestock-administered antibiotics decreases ecosystem carbon-use efficiency and alters nitrogen cycling." *Ecology letters* 22(12): 2067-2076.
- Wiesner, S. (2018). *Energy density and entropy production: their role in the carbon and energy cycling of subtropical longleaf pine savannas* PhD Thesis, The University of Alabama.
- Wiesner, S., P. C. Stoy, C. L. Staudhammer and G. Starr

- (2020). "Using metabolic energy density metrics to understand differences in ecosystem function during drought." *Journal of Geophysical Research: Biogeosciences* 125(3): e2019JG005335.
- Wilcott, S. E. (2019). USING 4R NUTRIENT MANAGEMENT TO REDUCE N₂O EMISSIONS AND DETERMINE THE AGRI-ENVIRONMENTAL OPTIMUM NITROGEN APPLICATION FOR IRRIGATED CANOLA IN SASKATCHEWAN PhD Thesis, University of Saskatchewan.
- Wilcott, S. E. (2019). USING 4R NUTRIENT MANAGEMENT TO REDUCE N₂O EMISSIONS AND DETERMINE THE AGRI-ENVIRONMENTAL OPTIMUM NITROGEN APPLICATION FOR IRRIGATED CANOLA IN SASKATCHEWAN PhD Thesis, University of Saskatchewan.
- Wilkman, E., D. Zona, Y. Tang, B. Gioli, D. A. Lipson and W. Oechel (2018). "Temperature response of respiration across the heterogeneous landscape of the Alaskan Arctic tundra." *Journal of Geophysical Research: Biogeosciences* 123(7): 2287-2302.
- Wilkman, E. M. (2020). Patterns and Controls on the Carbon Cycle and Shoulder Season Processes in the North American Arctic PhD Thesis, San Diego State University.
- Wilson, B. J. (2018). "Drivers and mechanisms of peat collapse in coastal wetlands."
- Wilson, B. J., S. Servais, S. P. Charles, S. E. Davis, E. E. Gaiser, J. S. Kominoski, J. H. Richards and T. G. Troxler (2018). "Declines in plant productivity drive carbon loss from brackish coastal wetland mesocosms exposed to saltwater intrusion." *Estuaries and Coasts* 41(8): 2147-2158.
- Wilson, B. J., S. Servais, S. P. Charles, V. Mazzei, E. E. Gaiser, J. S. Kominoski, J. H. Richards and T. G. Troxler (2019). "Phosphorus alleviation of salinity stress: Effects of saltwater intrusion on an Everglades freshwater peat marsh." *Ecology* 100(5): e02672.
- Wohlfahrt, M. S. Y. and J. Döring "Could organic viticulture Mitigate effects of climate change?".
- Wohlfahrt, Y., J. P. Smith, S. Tittmann, B. Honermeier and M. Stoll (2018). "Primary productivity and physiological responses of *Vitis vinifera* L. cvs. under Free Air Carbon dioxide Enrichment (FACE)." *European Journal of Agronomy* 101: 149-162.
- Wozney, A., I. D. Clark and K. U. Mayer (2021). "Quantifying natural source zone depletion at petroleum hydrocarbon contaminated sites: A comparison of 14C methods." *Journal of Contaminant Hydrology* 240: 103795.
- Wu, J., C. Sha, M. Wang, C. Ye, P. Li and S. Huang (2021). "Effect of Organic Fertilizer on Soil Bacteria in Maize Fields." *Land* 10(3): 328.
- Xavier, C. V. (2018). "Sucessão e rotação de culturas em sistema de semeadura direta: implicações na emissão de CO₂ e atributos do solo."
- Xavier, C. V., M. R. Moitinho, D. D. B. Teixeira, G. A. de Araújo Santos, J. E. Corá and N. La Scala Jr (2020). "Crop rotation and sequence effects on temporal variation of CO₂ emissions after long-term no-till application." *Science of the Total Environment* 709: 136107.
- Xavier, C. V., M. R. Moitinho, D. D. B. Teixeira, G. A. de Araújo Santos, M. de Andrade Barbosa, D. M. B. P. Milori, E. Rigobelo, J. E. Corá and N. L. S. Júnior (2019). "Crop rotation and succession in a no-tillage system: implications for CO₂ emission and soil attributes." *Journal of environmental management* 245: 8-15.
- Xiao, H. B., Z. H. Shi, Z. W. Li, J. Chen, B. Huang, Z. J. Yue and Y. M. Zhan (2021). "The regulatory effects of biotic and abiotic factors on soil respiration under different land-use types." *Ecological Indicators* 127: 107787.
- Xie, B. L., Y. Zhu, X. B. Zhang, Q. Gu, K. F. Zheng and J. G. Hu (2020). "Application of a Multi-Chamber Fusion Algorithm Based on the Fick's Theorem to Quantify Soil Respiration." *IEEE Sensors Journal* 21(3): 3900-3915.
- Xu, G., Y. Liu, Z. Long, S. Hu, Y. Zhang and H. Jiang (2018). "Effects of exotic plantation forests on soil edaphon and organic matter fractions." *Science of the Total Environment* 626: 59-68.
- Xu, Y., X. Ma, Y. Wang, S. Ali, T. Cai and Z. Jia (2020). "Effects of ridge-furrow mulching system with supplementary irrigation on soil respiration in winter wheat fields under different rainfall conditions." *Agricultural Water Management* 239: 106237.
- Xue, H. and H. Tang (2018). "Responses of soil respiration to soil management changes in an agropastoral ecotone in Inner Mongolia, China." *Ecology and evolution* 8(1): 220-230.
- Yamulki, S., J. Forster, G. Xenakis, A. Ash, J. Brunt, M. Perks and J. I. L. Morison (2021). "Effects of clearfell

- harvesting on soil CO₂, CH₄ and N₂O fluxes in an upland Sitka spruce stand in England." *Biogeosciences Discussions*: 1-22.
- Yamulki, S., J. Forster, G. Xenakis, A. Ash, J. Brunt, M. Perks and J. I. L. Morison (2021). "Effects of clearfell harvesting on soil CO₂, CH₄ and N₂O fluxes in an upland Sitka spruce stand in England." *Biogeosciences Discussions*: 1-22.
- Yan, G., Y. Xing, J. Wang, Z. Zhang, L. Xu, S. Han, J. Zhang, G. Dai and Q. Wang (2018). "Effects of winter snowpack and nitrogen addition on the soil microbial community in a temperate forest in northeastern China." *Ecological Indicators* 93: 602-611.
- Yan, G., Y. Xing, Q. Wang and C. Mu (2020). "Short Legacy Effects of Growing Season Nitrogen Addition and Reduced Precipitation alter Soil Respiration during Nongrowing Season." *Forests* 11(3): 358.
- Yan, J., L. Wang, Y. Hu, Y. F. Tsang, Y. Zhang, J. Wu, X. Fu and Y. Sun (2018). "Plant litter composition selects different soil microbial structures and in turn drives different litter decomposition pattern and soil carbon sequestration capability." *Geoderma* 319: 194-203.
- Yan, T., T. Qu, H. Song, Z. Sun, H. Zeng and S. Peng (2019). "Ectomycorrhizal fungi respiration quantification and drivers in three differently-aged larch plantations." *Agricultural and Forest Meteorology* 265: 245-251.
- Yan, T., T. Qu, Z. Sun, R. Dyzinski, A. Chen, X. Yao, H. Zeng and S. Piao (2018). "Negative effect of nitrogen addition on soil respiration dependent on stand age: Evidence from a 7-year field study of larch plantations in northern China." *Agricultural and Forest Meteorology* 262: 24-33.
- Yan, W., Y. Zhong, J. Liu and Z. Shangguan (2021). "Response of soil respiration to nitrogen fertilization: Evidence from a 6-year field study of croplands." *Geoderma* 384: 114829.
- Yan, W., Y. Zhong, J. Liu and Z. Shangguan (2021). "Response of soil respiration to nitrogen fertilization: Evidence from a 6-year field study of croplands." *Geoderma* 384: 114829.
- Yan, W., Y. Zhong, W. Liu and Z. Shangguan (2021). "Asymmetric response of ecosystem carbon components and soil water consumption to nitrogen fertilization in farmland." *Agriculture, Ecosystems & Environment* 305: 107166.
- Yan, W., Y. Zhong, W. Liu and Z. Shangguan (2021). "Asymmetric response of ecosystem carbon components and soil water consumption to nitrogen fertilization in farmland." *Agriculture, Ecosystems & Environment* 305: 107166.
- Yan, W., Y. Zhong and Z. Shangguan (2020). "Elevated temperature exacerbates the effects of drought on the carbon and hydraulic characteristics of *Robinia pseudoacacia* seedlings." *Agricultural and Forest Meteorology* 280: 107794.
- Yang, F., J. Huang, Q. He, X. Zheng, C. Zhou, H. Pan, W. Huo, H. Yu, X. Liu and L. Meng (2020). "Impact of differences in soil temperature on the desert carbon sink." *Geoderma* 379: 114636.
- Yang, F., J. Huang, Q. He, X. Zheng, C. Zhou, H. Pan, W. Huo, H. Yu, X. Liu and L. Meng (2020). "Impact of differences in soil temperature on the desert carbon sink." *Geoderma* 379: 114636.
- Yang, F., J. Huang, Q. He, C. Zhou, H. Pan, W. Huo, X. Zheng, H. Yu, X. Liu and L. Meng (2020). "Impact of soil temperature-difference on desert carbon-sink." *Geoderma* 379: 114636.
- Yang, H., S. Liu, Y. Li and H. Xu (2018). "Diurnal variations and gap effects of soil CO₂, N₂O and CH₄ fluxes in a typical tropical montane rainforest in Hainan Island, China." *Ecological Research* 33(2): 379-392.
- Yang, K., C. Peng, J. Peñuelas, P. Kardol, Z. Li, L. Zhang, X. Ni, K. Yue, B. Tan and R. Yin (2019). "Immediate and carry-over effects of increased soil frost on soil respiration and microbial activity in a spruce forest." *Soil Biology and Biochemistry* 135: 51-59.
- Yang, K., Y. Yang, Z. Xu and Q. Wu (2018). "Soil respiration in a subtropical forest of southwestern China: Components, patterns and controls." *PloS one* 13(9): e0204341.
- Yang, X., J. Fan and S. B. Jones (2018). "Effect of soil texture on estimates of soil-column carbon dioxide flux comparing chamber and gradient methods." *Vadose Zone Journal* 17(1): 1-9.
- Yang, X., J. Fan and S. B. Jones (2018). "Effect of soil texture on estimates of soil-column carbon dioxide flux comparing chamber and gradient methods." *Vadose Zone Journal* 17(1): 1-9.
- Yang, X.-D., A. Ali, Y.-L. Xu, L.-M. Jiang and G.-H. Lv (2019). "Soil moisture and salinity as main drivers of soil respiration across natural xeromorphic vegetation and agricultural lands in an arid desert region." *Catena*

- 177: 126-133.
- Yang, Y., M. Chen, J. Tian, F. Xiao, S. Xu, W. Zuo and W. Zhang (2019). "Improved photosynthetic capacity during the mid-and late reproductive stages contributed to increased cotton yield across four breeding eras in Xinjiang, China." *Field Crops Research* 240: 177-184.
- Yang, Z., Y. Wei, G. Fu, H. Song, G. Li and R. Xiao (2020). "Asymmetric effect of increased and decreased precipitation in different periods on soil and heterotrophic respiration in a semiarid grassland." *Agricultural and Forest Meteorology* 291: 108039.
- Yanni, S. F., B. L. Helgason, H. H. Janzen, B. H. Ellert and E. G. Gregorich (2020). "Warming effects on carbon dynamics and microbial communities in soils of diverse texture." *Soil Biology and Biochemistry* 140: 107631.
- Yao, B., Q. Hu, G. Zhang, Y. Yi, M. Xiao and D. Wen (2020). "Effects of Elevated CO₂ Concentration and Nitrogen Addition on Soil Respiration in a Cd-Contaminated Experimental Forest Microcosm." *Forests* 11(3): 260.
- Yao, X., K. Yu, G. Wang, Y. Deng, Z. Lai, Y. Chen, Y. Jiang and J. Liu (2019). "Effects of soil erosion and reforestation on soil respiration, organic carbon and nitrogen stocks in an eroded area of Southern China." *Science of The Total Environment* 683: 98-108.
- Yi-qing, G. E., Y. A. N. Yu-long, L. Yan, H. Ganjurjav, H. U. Guo-zheng, Y. Jie, G. A. O. Qing-zhu, H. E. Shi-cheng and D. Luobu (2019). "The effects of nitrogen deposition on soil respiration in an alpine meadow in northern Tibet." *Chinese Journal of Agrometeorology* 40(04): 214.
- Yu, C.-Q., J.-W. Wang, Z.-X. Shen and G. Fu (2019). "Effects of experimental warming and increased precipitation on soil respiration in an alpine meadow in the Northern Tibetan Plateau." *Science of the Total Environment* 647: 1490-1497.
- Yu, H., Y. Li, S. O. Oshunsanya, K. S. Are, Y. Geng, S. Saggarr and W. Liu (2019). "Re-introduction of light grazing reduces soil erosion and soil respiration in a converted grassland on the Loess Plateau, China." *Agriculture, Ecosystems & Environment* 280: 43-52.
- Yu, H., X. Liu, Q. Ma, Z. Yin, Y. Wang, Z. Xu and G. Zhou (2021). "Climatic warming enhances soil respiration resilience in an arid ecosystem." *Science of The Total Environment* 756: 144005.
- Yu, H., Z. Xu, G. Zhou and Y. Shi (2020). "Soil carbon release responses to long-term versus short-term climatic warming in an arid ecosystem." *Biogeosciences* 17(3): 781-792.
- Yu, K., X. Yao, Y. Deng, Z. Lai, L. Lin and J. Liu (2019). "Effects of stand age on soil respiration in *Pinus massoniana* plantations in the hilly red soil region of Southern China." *Catena* 178: 313-321.
- Yu, L., H. Wang, Y. Wang, Z. Zhang, L. Chen, N. Liang and J.-S. He (2020). "Temporal variation in soil respiration and its sensitivity to temperature along a hydrological gradient in an alpine wetland of the Tibetan Plateau." *Agricultural and Forest Meteorology* 282: 107854.
- Yu, S., Q. Mo, Y. Chen, Y. Li, Y. Li, B. Zou, H. Xia, W. Jun, Z. Li and F. Wang (2020). "Effects of seasonal precipitation change on soil respiration processes in a seasonally dry tropical forest." *Ecology and evolution* 10(1): 467-479.
- Yu, S., Q. Mo, Y. Chen, Y. Li, Y. Li, B. Zou, H. Xia, W. Jun, Z. Li and F. Wang (2020). "Effects of seasonal precipitation change on soil respiration processes in a seasonally dry tropical forest." *Ecology and evolution* 10(1): 467-479.
- Yu, X., S. Ye, L. Olsson, M. Wei and H. Brix (2020). "In-Situ CO₂ Partitioning Measurements in a *Phragmites australis* Wetland: Understanding Carbon Loss through Ecosystem Respiration." *Wetlands* 40(4): 901-914.
- Yu, X., S. Ye, L. Olsson, M. Wei, K. W. Krauss and H. Brix (2018). "Ecosystem respiration in coastal tidal flats can be modelled from air temperature, plant biomass and inundation regime." *Biogeosciences Discussions*: 1-26.
- Yu, X., S. Ye, L. Olsson, M. Wei, K. W. Krauss and H. Brix (2019). "A 3-Year In-Situ Measurement of CO₂ Efflux in Coastal Wetlands: Understanding Carbon Loss through Ecosystem Respiration and its Partitioning." *Wetlands*: 1-12.
- Zan, Z.-m., Y.-c. Liu, Y.-z. Liu, X. Juan and Z. Wei (2020). "Effect of Extreme Snowfall on Soil Respiration of Plantations in North Subtropics-Warm Temperature Transition Zone." *林业科学研究* 33(2): 27-34.
- Zeng, W., J. Chen, H. Liu and W. Wang (2018). "Soil respiration and its autotrophic and heterotrophic components in response to nitrogen addition among

- different degraded temperate grasslands." *Soil Biology and Biochemistry* 124: 255-265.
- Zeng, W., J. Zhang, L. Dong, W. Wang and H. Zeng (2020). "Nonlinear responses of total belowground carbon flux and its components to increased nitrogen availability in temperate forests." *Science of The Total Environment* 715: 136954.
- Zeng, W., J. Zhang and W. Wang (2018). "Strong root respiration response to nitrogen and phosphorus addition in nitrogen-limited temperate forests." *Science of the total environment* 642: 646-655.
- Zeng, X., Y. Song, W. Zhang and S. He (2018). "Spatio-temporal variation of soil respiration and its driving factors in semi-arid regions of North China." *Chinese Geographical Science* 28(1): 12-24.
- Zeng, X., Y. Song, W. Zhang and S. He (2018). "Spatio-temporal variation of soil respiration and its driving factors in semi-arid regions of North China." *Chinese Geographical Science* 28(1): 12-24.
- Zhang, B., M. W. Cadotte, S. Chen, X. Tan, C. You, T. Ren, M. Chen, S. Wang, W. Li and C. Chu (2019). "Plants alter their vertical root distribution rather than biomass allocation in response to changing precipitation." *Ecology* 100(11): e02828.
- Zhang, B., W. Li, S. Chen, X. Tan, S. Wang, M. Chen, T. Ren, J. Xia, J. Huang and X. Han (2019). "Changing precipitation exerts greater influence on soil heterotrophic than autotrophic respiration in a semiarid steppe." *Agricultural and Forest Meteorology* 271: 413-421.
- Zhang, C., D. Niu, M. Song, J. J. Elser, J. G. Okie and H. Fu (2018). "Effects of rainfall manipulations on carbon exchange of cyanobacteria and moss-dominated biological soil crusts." *Soil Biology and Biochemistry* 124: 24-31.
- Zhang, C., D. Niu, M. Song, J. J. Elser, J. G. Okie and H. Fu (2018). "Effects of rainfall manipulations on carbon exchange of cyanobacteria and moss-dominated biological soil crusts." *Soil Biology and Biochemistry* 124: 24-31.
- Zhang, H., Y. Liu, Z. Zhou and Y. Zhang (2019). "Inorganic nitrogen addition affects soil respiration and belowground organic carbon fraction for a *Pinus tabuliformis* forest." *Forests* 10(5): 369.
- Zhang, J., Y. Li, J. Wang, W. Chen, D. Tian and S. Niu (2021). "Different responses of soil respiration and its components to nitrogen and phosphorus addition in a subtropical secondary forest." *Forest Ecosystems* 8(1): 1-13.
- Zhang, J., S. Liu, C. Liu, H. Wang, J. Luan, X. Liu, X. Guo and B. Niu (2021). "Different mechanisms underlying divergent responses of autotrophic and heterotrophic respiration to long-term throughfall reduction in a warm-temperate oak forest."
- Zhang, J., H. Yang, J. Wang, D. Tian, Y. Li, N. He and S. Niu (2019). "Soil and climate determine differential responses of soil respiration to nitrogen and acid deposition along a forest transect." *European Journal of Soil Biology* 93: 103097.
- Zhang, L. and J. Lv (2020). "Metagenomic analysis of microbial community and function reveals the response of soil respiration to the conversion of cropland to plantations in the Loess Plateau of China." *Global Ecology and Conservation* 23: e01067.
- Zhang, L. and J. Lv (2020). "Metagenomic analysis of microbial community and function reveals the response of soil respiration to the conversion of cropland to plantations in the Loess Plateau of China." *Global Ecology and Conservation* 23: e01067.
- Zhang, M., X. Li, H. Wang and Q. Huang (2018). "Comprehensive analysis of grazing intensity impacts soil organic carbon: A case study in typical steppe of Inner Mongolia, China." *Applied Soil Ecology* 129: 1-12.
- Zhang, M., X. Li, H. Wang and Q. Huang (2018). "Comprehensive analysis of grazing intensity impacts soil organic carbon: A case study in typical steppe of Inner Mongolia, China." *Applied Soil Ecology* 129: 1-12.
- Zhang, M., X. Yan, Z. Lu, Q. Bai, Y. Zhang, D. Wang, Y. Zhou and Y. Yin (2021). "Effects of Micropore Group Spacing and Irrigation Amount on Soil Respiration and Yield of Tomato with Microsprinkler Irrigation under Plastic Film in Greenhouse." *Journal of Sensors* 2021.
- Zhang, P., X. Li, S. Xue, Z. Cui, D. Xu and Z. Yang (2021). "Effects of weeding and fertilization on soil biology and biochemical processes and tree growth in a mixed stand of *Dalbergia odorifera* and *Santalum album*." *Journal of Forestry Research*: 1-12.
- Zhang, P.-p., S.-z. Xu, G.-j. Zhang, X.-z. Pu, W. Jin and W. Zhang (2019). "Carbon cycle in response to residue management and fertilizer application in a cotton field in arid Northwest China." *Journal of Integrative Agriculture* 18(5): 1103-1119.

- Zhang, Q., H. Lei, D. Yang, L. Xiong, P. Liu and B. Fang (2020). "Decadal variation in CO₂ fluxes and its budget in a wheat and maize rotation cropland over the North China Plain." *Biogeosciences* 17(8): 2245-2262.
- Zhang, Q., H. Lei, D. Yang, L. Xiong, P. Liu, B. Fang, Q. Zhang and H. Lei "Decadal variation of CO₂ fluxes and its budget in a wheat and maize rotation cropland."
- Zhang, S., Y. Li, B. P. Singh, H. Wang, X. Cai, J. Chen, H. Qin, Y. Li and S. X. Chang (2021). "Contrasting short-term responses of soil heterotrophic and autotrophic respiration to biochar-based and chemical fertilizers in a subtropical Moso bamboo plantation." *Applied Soil Ecology* 157: 103758.
- Zhang, Y., Y.-Z. Xie, H.-B. Ma, J. Zhang, L. Jing, Y.-T. Wang and J. Li (2021). "The Responses of Soil Microbial to Changed Rainfall and Increased Temperature in Desert Grassland in Northern China."
- Zhang, Y., X. Yu, L. Chen and G. Jia (2019). "Whole-plant instantaneous and short-term water-use efficiency in response to soil water content and CO₂ concentration." *Plant and Soil* 444(1): 281-298.
- Zhang, Y., W. Zhao, L. Fu, C. Zhao and A. Jia (2020). "Land use conversion influences soil respiration across a desert-oasis ecoregion in Northwest China, with consideration of cold season CO₂ efflux and its significance." *Catena* 188: 104460.
- Zhao, B., J. Cao, Y. Geng, X. Zhao and K. von Gadow (2019). "Inconsistent responses of soil respiration and its components to thinning intensity in a *Pinus tabulaeformis* plantation in northern China." *Agricultural and Forest Meteorology* 265: 370-380.
- Zhao, B., J. Cao, Y. Geng, X. Zhao and K. von Gadow (2019). "Inconsistent responses of soil respiration and its components to thinning intensity in a *Pinus tabulaeformis* plantation in northern China." *Agricultural and Forest Meteorology* 265: 370-380.
- Zhao, B., Y. Geng, J. Cao, L. Yang and X. Zhao (2018). "Contrasting responses of soil respiration components in response to five-year nitrogen addition in a *Pinus tabulaeformis* forest in Northern China." *Forests* 9(9): 544.
- Zhao, B., J. Wang, J. Cao, X. Zhao and K. v. Gadow (2018). "Inconsistent autotrophic respiration but consistent heterotrophic respiration responses to 5-years nitrogen addition under natural and planted *Pinus tabulaeformis* forests in northern China." *Plant and Soil* 429(1): 375-389.
- Zhao, F., J. Sun, S. Yu, H. Liu and K. Yu (2019). "Aeration Irrigation Can Improve Growth of Table Grape cv. Red Globe (*Vitis vinifera* L.) in Greenhouse." *HortScience* 54(4): 732-737.
- Zhao, J., T. Luo, R. Li, H. Wei, X. Li, M. Du and Y. Tang (2018). "Precipitation alters temperature effects on ecosystem respiration in Tibetan alpine meadows." *Agricultural and Forest Meteorology* 252: 121-129.
- Zhao, J., T. Luo, R. Li, H. Wei, X. Li, M. Du and Y. Tang (2018). "Precipitation alters temperature effects on ecosystem respiration in Tibetan alpine meadows." *Agricultural and Forest Meteorology* 252: 121-129.
- Zhao, J., T. Luo, H. Wei, Z. Deng, X. Li, R. Li and Y. Tang (2019). "Increased precipitation offsets the negative effect of warming on plant biomass and ecosystem respiration in a Tibetan alpine steppe." *Agricultural and Forest Meteorology* 279: 107761.
- Zhao, J., T. Luo, H. Wei, Z. Deng, X. Li, R. Li and Y. Tang (2019). "Increased precipitation offsets the negative effect of warming on plant biomass and ecosystem respiration in a Tibetan alpine steppe." *Agricultural and Forest Meteorology* 279: 107761.
- Zhao, J., L. Tian, H. Wei, F. Sun and R. Li (2019). "Negative responses of ecosystem autotrophic and heterotrophic respiration to experimental warming in a Tibetan semi-arid alpine steppe." *Catena* 179: 98-106.
- Zhao, J., L. Tian, H. Wei, F. Sun and R. Li (2019). "Negative responses of ecosystem autotrophic and heterotrophic respiration to experimental warming in a Tibetan semi-arid alpine steppe." *Catena* 179: 98-106.
- Zhao, J., L. Tian, H. Wei, T. Zhang, Y. Bai, R. Li and Y. Tang (2019). "Impact of plateau pika (*Ochotona curzoniae*) burrowing-induced microtopography on ecosystem respiration of the alpine meadow and steppe on the Tibetan plateau." *Plant and Soil*: 1-14.
- Zhao, J., L. Tian, H. Wei, T. Zhang, Y. Bai, R. Li and Y. Tang (2019). "Impact of plateau pika (*Ochotona curzoniae*) burrowing-induced microtopography on ecosystem respiration of the alpine meadow and steppe on the Tibetan plateau." *Plant and Soil*: 1-14.
- Zhao, K., B. Dong, Z. Jia and L. Ma (2018). "Effect of climatic factors on the temporal variation of stem respiration in *Larix principis-rupprechtii* Mayr." *Agricultural and Forest Meteorology* 248: 441-448.
- Zhao, K., M. Zheng, T. J. Fahey, Z. Jia and L. Ma (2018).

- "Vertical gradients and seasonal variations in the stem CO₂ efflux of *Larix principis-rupprechtii* Mayr." *Agricultural and Forest Meteorology* 262: 71-80.
- Zhao, M., S. Guo and R. Wang (2021). "Diverse soil respiration responses to extreme precipitation patterns in arid and semiarid ecosystems." *Applied Soil Ecology* 163: 103928.
- Zhao, P., A. Hammerle, M. Zeeman and G. Wohlfahrt "On the calculation of daytime CO₂."
- Zhao, P., A. Hammerle, M. Zeeman and G. Wohlfahrt (2018). "On the calculation of daytime CO₂ fluxes measured by automated closed transparent chambers." *Agricultural and forest meteorology* 263: 267-275.
- Zhao, P., A. Hammerle, M. Zeeman and G. Wohlfahrt (2018). "On the calculation of daytime CO₂ fluxes measured by automated closed transparent chambers." *Agricultural and forest meteorology* 263: 267-275.
- Zhao, S., K. Chen, C. Wu and Y. Mao (2018). *Effects of simulated warming on soil respiration to XiaoPo lake*, IOP Publishing.
- Zhao, X., Y. Li, Z. Xie and P. Li (2020). "Effects of nitrogen deposition and plant litter alteration on soil respiration in a semiarid grassland." *Science of The Total Environment* 740: 139634.
- Zhao, Y.-I., S. D. Goldberg, J.-c. Xu and R. D. Harrison (2018). "Spatial and seasonal variation in soil respiration along a slope in a rubber plantation and a natural forest in Xishuangbanna, Southwest China." *Journal of Mountain Science* 15(4): 695-707.
- Zhaoyong, S. H. I., L. I. Ke, W. Yongming, B. S. Mickan, Y. Weikang and Y. Yan (2019). "Forest Soil Respirations are More Sensitive to Nighttime Temperature Change in Eastern China." *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 47(1): 249-254.
- Zhaoyong, S. H. I., L. I. Ke, W. Yongming, B. S. Mickan, Y. Weikang and Y. Yan (2019). "Forest Soil Respirations are More Sensitive to Nighttime Temperature Change in Eastern China." *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 47(1): 249-254.
- Zheng, P., D. Wang, X. Yu, G. Jia, Z. Liu, Y. Wang and Y. Zhang (2021). "Effects of drought and rainfall events on soil autotrophic respiration and heterotrophic respiration." *Agriculture, Ecosystems & Environment* 308: 107267.
- Zheng, S., H. Bian, Q. Quan, L. Xu, Z. Chen and N. He (2018). "Effect of nitrogen and acid deposition on soil respiration in a temperate forest in China." *Geoderma* 329: 82-90.
- Zheng, W., R. Li, Q. Yang, W. Zhang, K. Huang, X. Guan and S. Wang (2019). "Short-term response of soil respiration to simulated acid rain in *Cunninghamia lanceolata* and *Michelia macclurei* plantations." *Journal of Soils and Sediments* 19(3): 1239-1249.
- Zhong, M., J. Song, Z. Zhou, J. Ru, M. Zheng, Y. Li, D. Hui and S. Wan (2019). "Asymmetric responses of plant community structure and composition to precipitation variabilities in a semi-arid steppe." *Oecologia* 191(3): 697-708.
- Zhong, Z., G. Zhang and H. Zhang (2019). "Impact of diurnal unsymmetrical warming on soil respiration in an agroecological system of the Lhasa region." *Plos one* 14(5): e0217575.
- Zhou, C. W. F. R. X., W. M. C. Liang, J. W. J. C. H. Zhou and J.-S. He "Variations in the nitrogen saturation threshold of soil respiration in grassland ecosystems."
- Zhou, C. W. F. R. X., W. M. C. Liang, J. W. J. C. H. Zhou and J.-S. He "Variations in the nitrogen saturation threshold of soil respiration in grassland ecosystems."
- Zhou, G., X. Zhou, R. Liu, Z. Du, L. Zhou, S. Li, H. Liu, J. Shao, J. Wang and Y. Nie (2020). "Soil fungi and fine root biomass mediate drought-induced reductions in soil respiration." *Functional Ecology* 34(12): 2634-2643.
- Zhou, J., X. Liu, J. Xie, M. Lyu, Y. Zheng, Z. You, Y. Fan, C. Lin, G. Chen and Y. Chen (2019). "Nitrogen addition affects soil respiration primarily through changes in microbial community structure and biomass in a subtropical natural forest." *Forests* 10(5): 435.
- Zhou, M., W. Bai, Y. Zhang and W.-H. Zhang (2018). "Multi-dimensional patterns of variation in root traits among coexisting herbaceous species in temperate steppes." *Journal of Ecology* 106(6): 2320-2331.
- Zhou, S., C. Huang, Y. Xiang, L. Tie, B. Han and S. Scheu (2018). "Effects of reduced precipitation on litter decomposition in an evergreen broad-leaved forest in western China." *Forest Ecology and Management* 430: 219-227.
- Zhou, S., Y. Xiang, L. Tie, B. Han and C. Huang (2018). "Simulated nitrogen deposition significantly reduces soil respiration in an evergreen broadleaf forest in

- western China." *PloS one* 13(9): e0204661.
- Zhou, Z., Y. Li, J. Song, J. Ru, L. Lei, M. Zhong, M. Zheng, A. Zhang, D. Hui and S. Wan (2019). "Growth controls over flowering phenology response to climate change in three temperate steppes along a precipitation gradient." *Agricultural and Forest Meteorology* 274: 51-60.
- Zhu, M., H. J. De Boeck, H. Xu, Z. Chen, J. Lv and Z. Zhang (2020). "Seasonal variations in the response of soil respiration to rainfall events in a riparian poplar plantation." *Science of The Total Environment* 747: 141222.
- Zhu, M., H. J. De Boeck, H. Xu, Z. Chen, J. Lv and Z. Zhang (2020). "Seasonal variations in the response of soil respiration to rainfall events in a riparian poplar plantation." *Science of The Total Environment* 747: 141222.
- Zhu, M., W. Xue, H. Xu, Y. Gao, S. Chen, B. Li and Z. Zhang (2019). "Diurnal and Seasonal Variations in Soil Respiration of Four Plantation Forests in an Urban Park." *Forests* 10(6): 513.
- Zhu, M., W. Xue, H. Xu, Y. Gao, S. Chen, B. Li and Z. Zhang (2019). "Diurnal and Seasonal Variations in Soil Respiration of Four Plantation Forests in an Urban Park." *Forests* 10(6): 513.
- Zhu, Y. (2020). Long-term experimental warming increases the efficiency of the methane cycle PhD Thesis, Queen Mary University of London.
- Zhu, Y., K. J. Purdy, Ö. Eyice, L. Shen, S. F. Harpenslager, G. Yvon-Durocher, A. J. Dumbrell and M. Trimmer (2020). "Disproportionate increase in freshwater methane emissions induced by experimental warming." *Nature Climate Change* 10(7): 685-690.
- Zijuan, Z., S. Peixi, W. Xiukun, S. Rui and D. Xinjing (2020). "Leaf and community photosynthetic carbon assimilation of alpine plants under in-situ warming."
- Zong, N., S. Geng, C. Duan, P. Shi, X. Chai and X. Zhang (2018). "The effects of warming and nitrogen addition on ecosystem respiration in a Tibetan alpine meadow: The significance of winter warming." *Ecology and evolution* 8(20): 10113-10125.
- Zong, R., Z. Wang, Q. Wu, L. Guo and H. Lin (2020). "Characteristics of carbon emissions in cotton fields under mulched drip irrigation." *Agricultural Water Management* 231: 105992.
- Ван, Ц., М. Чжоу, П. Чжао and Д. Ван (2019). Управление пожарными сухостоями в районе вечной мерзлоты умеренно холодного пояса.
- Дюкарев, Е. А. (2020). "МОДЕЛИРОВАНИЕ СЕЗОННОГО ХОДА УГЛЕРОДНОГО ОБМЕНА В БОЛОТНЫХ ЭКОСИСТЕМАХ." *Экология. Экономика. Информатика. Серия: Системный анализ и моделирование экономических и экологических систем* 1(5): 56-61.
- Махныкина, А. В. (2019). Влияние температуры и влажности на эмиссионные потоки CO₂ с поверхности почвы в сосняках среднетаежной подзоны Средней Сибири PhD Thesis, Сибирский федеральный университет.
- 박혜경 (2020). Temporal and spatial variations of soil physicochemical properties, vegetation, and soil enzyme activities in a riparian zone PhD Thesis, 서울대학교 대학원.
- 付若仙, 余景松, 张云彬, 俞元春 and 陶晓 (2020). "氮添加下城市森林土壤呼吸动态变化及其影响因素." *Yingyong Shengtai Xuebao* 31(3).
- 吉田貢士, 大澤和敏, 鈴木遥, 水野広祐, 前田滋哉 and 黒田久雄 (2019). "熱帯湿地における排水路水位の制御に伴う CO₂ 放出量および火災リスクの低減効果." *土木学会論文集 B1 (水工学)* 75(2): I_355-I_360.
- 吉田貢士, 大澤和敏, 鈴木遥, 水野広祐, 前田滋哉 and 黒田久雄 (2019). "熱帯湿地における排水路水位の制御に伴う CO₂ 放出量および火災リスクの低減効果." *土木学会論文集 B1 (水工学)* 75(2): I_355-I_360.
- 吴建召, 严思维, 崔羽, 罗清虎, 林勇明, 王道杰 and 吴承祯 (2019). "地震灾区 2 种气候生态治理区恢复初期土壤呼吸动态及其影响因子." *北京林业大学学报* 41(3): 93-104.
- 周延, 靖磊, 杨萌, 史林鹭, 吕偲 and 雷光春 (2018). "不同出露时间下洞庭湖洲滩土壤及生态系统呼吸特征." *湖泊科学* 30(6): 1664-1671.
- 孙海燕, 赵俊平, 肖艳玲, 冯建伟 and 张占贵 (2018). "模拟氮沉降对武夷山亚热带常绿阔叶林土壤呼吸的影响." *生态环境学报* 27(9): 1632-1638.
- 崔之益, 徐大平, 杨曾奖, 张宁南, 刘小金 and 洪舟 (2018). "土壤含水量对降香黄檀树干呼吸速率, 生长和氮含量的影响." *华南农业大学学报* 39(2): 54-61.
- 巫志龙, 周成军, 周新年, 刘富万, 朱奇雄, 黄金湧 and 陈文 (2019). "不同强度采伐 5 年后杉阔混交人工林土壤呼吸速率差异." *林业科学* 55(6): 142-149.
- 张振超, 王金牛, 孙建, 蒋海波 and 魏天兴 (2019). "土壤温

- 室气体测定方法研究进展." 应用与环境生物学报 25(5): 1228-1243.
- 张艳如, 陈秋文, 孙美美, 时伟宇 and 杜盛 (2018). "黄土丘陵区 4 种植被类型土壤呼吸季节及年际变化." 应用与环境生物学报 24(4): 0729-0734.
- 张艳如, 陈秋文, 孙美美, 时伟宇 and 杜盛 (2018). "黄土丘陵区 4 种植被类型土壤呼吸季节及年际变化." 应用与环境生物学报 24(4): 0729-0734.
- 咎志曼, 刘彦春, 刘银占, 轩娟 and 赵威 (2020). "极端降雪对北亚热带-暖温带气候过渡带人工林土壤呼吸的影响." 林业科学研究 33(2): 27-34.
- 李一凡, 王玉杰, 王彬 and 李通 (2019). "西南酸雨区重庆缙云山常绿阔叶林土壤氮矿化特征." 林业科学 55(6): 1-12.
- 李典鹏, 姚美思, 孙涛, 张凯 and 贾宏涛 (2019). "水位变化对干涸湖底沉积物有机碳矿化的影响." 湖泊科学 31(3): 881-890.
- 李典鹏, 王辉, 孙涛, 李政, 张凯 and 贾宏涛 (2019). "机械压实对新疆绿洲农田土壤微生物活性及碳排放的影响." Transactions of the Chinese Society of Agricultural Engineering 35(18).
- 李新鸽, 韩广轩, 朱连奇, 孙宝玉, 姜铭, 宋维民 and 路峰 (2019). "降雨量改变对黄河三角洲滨海湿地土壤呼吸的影响." 李永平, 史向远 and 周静 (2018). "鸡粪深施对土壤呼吸速率及玉米产量的影响." 作物杂志 29(2): 104-108.
- 杨帆, 杨万勤, 吴福忠, 薛樵, 刘育伟, 郭彩虹, 谌亚 and 谭波 (2018). "蔡对川西亚高山森林土壤呼吸, 可溶性有机质和微生物生物量的影响." 应用生态学报 29(3): 757-764.
- 林力涛, 韩潇潇, 于占源, 孙学凯, 黄月 and 曾德慧 (2019). "施氮处理下植物光合对沙质草地土壤呼吸的调控作用." Yingyong Shengtai Xuebao 30(9).
- 林耀奔, 叶艳妹, 吴次芳, 胡一鸣, 施昊坤 and 王巧若 (2019). "基于微生物视角的耕地土壤质量综合评价." 中国土地科学 33(6).
- 梁国华, 张德强, 卢雨宏, 冯霞, 罗国良, 刘展宏 and 赵则海 (2019). "鼎湖山针阔叶混交林凋落物 CO₂ 释放对模拟酸雨的响应." 广西植物 39(3): 394-402.
- 王晓娇, 蔡立群, 齐鹏, 王雅芝, 陈晓龙, 武均 and 张仁陟 (2021). "培肥措施对旱地农田土壤 CO₂ 排放和碳库管理指数的影响." 草业学报 30(2): 32.
- 王鑫, 同小娟, 张劲松, 孟平, 解晗, 胡海洋 and 李俊 (2021). "太行山南麓栓皮栎人工林光合作用对土壤呼吸的影响." 北京林业大学学报 43(1): 66-76.
- 程分生, 尤龙辉, 叶功富, 游惠明, 聂森 and 林文泉 (2021). "亚热带红壤侵蚀区马尾松不同套种模式生态系统碳平衡." Yingyong Shengtai Xuebao 32(4).
- 胡宗达, 刘世荣, 胡璟, 刘兴良, 余昊, 李登峰 and 何飞 (2018). "川西亚高山川滇高山栎林火烧迹地土壤呼吸特征及其影响因素." 林业科学 54(2): 18-29.
- 范洪旺, 许克福, 陶晓, 秦娟, 程毅 and 雷家凤 (2019). "合肥市城乡梯度下麻栎林土壤呼吸特征及影响因素." 生态环境学报 28(8): 1567-1576.
- 葛怡情, 闫玉龙 and 梁艳 (2019). "模拟降水氮沉降对藏北高寒草甸土壤呼吸的影响." 中国农业气象 40(04): 214.
- 葛晓改, 童冉, 曹永慧, 周本智, 肖文发, 王小明 and 陆人方 (2018). "模拟干旱下调落物输入对毛竹林土壤呼吸及温度敏感性的影响." Yingyong Shengtai Xuebao 29(7).
- 邓翠, 吕茂奎, 曾敏, 张康靖, 张浩 and 谢锦升 (2019). "红壤侵蚀区植被恢复对土壤呼吸及其温度敏感性的影响." 土壤学报 56(1): 135-145.
- 邓长芳 (2018). 黄土高原雨养区轮作农田温室气体排放特征及影响因子 Master's Thesis, 甘肃农业大学.
- 陈盟, 张杰, 刘巧, 郭艳杰 and 张丽娟 (2020). "葡萄园土壤呼吸特征及 CO₂ 排放监测方法比较." 林业与生态科学 35(1): 72-78.
- 魏杰, 陈昌华, 王晶苑 and 温学发 (2020). "箱式通量观测技术和方法的理论假设及其应用进展." 植物生态学报 44(4): 318.
- 黄诚诚, 王迎春, 张渐飞 and 王立刚 (2018). "东北黑土典型坡耕地土壤呼吸特征的研究." 中国生态农业学报 26(1): 1-7.



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