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# Publications List

*This document contains a sampling of recent publications that reference LI-COR instrumentation and software. This list is provided for informational purposes only, and LI-COR neither endorses, nor makes any express or implied warranties with respect to any data included in these publications.*

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- Abraha, M., S. K. Hamilton, J. Chen and G. P. Robertson (2018). "Ecosystem carbon exchange on conversion of Conservation Reserve Program grasslands to annual and perennial cropping systems." *Agricultural and Forest Meteorology* 253: 151-160.
- Abraha, M., S. K. Hamilton, J. Chen, G. P. J. A. Robertson and f. meteorology (2018). "Ecosystem carbon exchange on conversion of Conservation Reserve Program grasslands to annual and perennial cropping systems." 253: 151-160.
- Acosta, D., P. T. Doran and M. Myers (2020). "GIS tool to predict photosynthetically active radiation in a Dry Valley." *Antarctic Science* 32(5): 315-328.
- Acosta, M., J. Dušek, S. Chamizo, P. Serrano-Ortiz and M. J. C. Pavelka (2019). "Autumnal fluxes of CH<sub>4</sub> and CO<sub>2</sub> from Mediterranean reed wetland based on eddy covariance and chamber methods." 183: 104191.
- 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 CO<sub>2</sub> 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.
- Akitsu, T., K. N. Nasahara, T. Nakaji, H. Kobayashi, T. Okano, N. Saigusa, M. Hayashi, R. Ide, Y. Honda and K. Kajiwara (2019). Validating GCOM-C Terrestrial Ecology Products: How Should In-Situ Observation Be Performed at Satellite Scale? IGARSS 2019-2019 IEEE International Geoscience and Remote Sensing Symposium, IEEE.
- Akmal, M., A. Shah and J. Ali (2018). "Growth, radiation use efficiency and grain yield of wheat as influenced by nitrogen, tillage, and crop residue management." *Journal of Plant Nutrition* 41(16): 2032-2047.
- Alhnaity, B., S. Kollias, G. Leontidis, S. Jiang, B. Schamp and S. Pearson (2021). "An autoencoder wavelet based deep neural network with attention mechanism for multi-step prediction of plant growth." *Information Sciences* 560: 35-50.
- Andersen, M. R., E. de Eyto, M. Dillane, R. Poole and E. Jennings (2020). "13 Years of Storms: An Analysis of the Effects of Storms on Lake Physics on the Atlantic Fringe of Europe." *Water* 12(2): 318.
- Anev, S. and N. Tzvetkova "GAS-EXCHANGE RESPONSE OF NORWAY MAPLE (ACER PLATANOIDES L.) AND SILVER LIME (TILIA TOMENTOSA MOENCH) SAPLINGS TO FOREST THINNING."
- Aphalo, P. J. (2020). "Package 'photobiologySensors'."
- Aphalo, P. J., T. M. Robson, S. M. Hartiainen, A. Lindfors, T. K. Kotilainen and M. P. J. Aphalo (2019). "Package 'photobiologySun'."
- Austin, J. and Y.-Y. J. Cho (2018). "Development of Models for Estimating Growth of Quinoa (*Chenopodium quinoa* Willd.) in a Closed-Type Plant Factory System." 27(4): 326-331.
- Bailey, A., K. Burkey, M. Taggart and T. J. P. Ruffy (2019). "Leaf Traits That Contribute to Differential Ozone Response in Ozone-Tolerant and Sensitive Soybean Genotypes." 8(7): 235.
- Bajgain, R., X. Xiao, J. Basara, P. Wagle, Y. Zhou, H. Mahan, P. Gowda, H. R. McCarthy, B. Northup, J. Neel and J. Steiner (2018). "Carbon dioxide and water vapor fluxes in winter wheat and tallgrass prairie in central Oklahoma." *Sci Total Environ* 644: 1511-1524.
- Bajgain, R., X. Xiao, P. Wagle, J. S. Kimball, C. Brust, J. B. Basara, P. Gowda, P. J. Starks and J. P. S. Neel (2021). "Comparing Evapotranspiration Products of Different Temporal and Spatial Scales in Native and Managed Prairie Pastures." *Remote Sensing* 13(1): 82.
- Bäumker, E., D. Zimmermann, S. Schierle and P. Woias (2021). "A Novel Approach to Obtain PAR with a Multi-Channel Spectral Microsensor, Suitable for Sensor Node Integration." *Sensors* 21(10): 3390.
- Bayeur, N. M., K. L. Carpenter and N. M. Hughes (2018). "Shade tolerance: an additional factor affecting the distribution of mountain beech and silver beech in New Zealand?" *Trees* 32(2): 539-547.
- Bayeur, N. M., K. L. Carpenter and N. M. J. T. Hughes (2018). "Shade tolerance: an additional factor affecting the distribution of mountain beech and silver beech in New Zealand?" 32(2): 539-547.
- Beepat, S. S., S. K. Davy, L. Woods and J. J. Bell (2020).

- "Short-term responses of tropical lagoon sponges to elevated temperature and nitrate." *Marine environmental research* 157: 104922.
- Bergmann, P. and W. Trösch (2018). "Empirical operating strategy to reduce the light-specific energy consumption of a flat-panel airlift photobioreactor with intrinsic static mixers cultivating *Thermosynechococcus elongatus* BP-1." *Algal research* 29: 354-360.
- Bialon, J. and T. Rath (2018). "Growth rates and photon efficiency of *Chlorella vulgaris* in relation to photon absorption rates under different LED-types." *Algal research* 31: 204-215.
- Bingchang, Z., Z. Yongqing, Z. Xiaobing, L. I. Xiangzhen and Z. Yuanming (2021). "Snowpack shifts cyanobacterial community in biological soil crusts." *Journal of Arid Land* 13(3): 239-256.
- Blagojevic, D., Y. Lee, L. Xie, D. A. Brede, L. Nybakken, O. C. Lind, K. E. Tollefsen, B. Salbu, K. A. Solhaug and J. E. Olsen (2019). "No evidence of a protective or cumulative negative effect of UV-B on growth inhibition induced by gamma radiation in Scots pine (*Pinus sylvestris*) seedlings." *Photochemical & Photobiological Sciences* 18(8): 1945-1962.
- Blagojevic, D., Y. Lee, L. Xie, D. A. Brede, L. Nybakken, O. C. Lind, K. E. Tollefsen, B. Salbu, K. A. Solhaug, J. E. J. P. Olsen and P. Sciences (2019). "No evidence of a protective or cumulative negative effect of UV-B on growth inhibition induced by gamma radiation in Scots pine (*Pinus sylvestris*) seedlings." 18(8): 1945-1962.
- Blain, C. O., T. A. V. Rees, S. Christine Hansen and N. T. Shears (2020). "Morphology and photosynthetic response of the kelp *Ecklonia radiata* across a turbidity gradient." *Limnology and Oceanography* 65(3): 529-544.
- Blain, C. O. and N. T. Shears (2019). "Seasonal and spatial variation in photosynthetic response of the kelp *Ecklonia radiata* across a turbidity gradient." *Photosynth Res* 140(1): 21-38.
- Blonquist Jr, J. and M. Isaac (2018). Underwater accuracy of Apogee quantum sensors, Apogee Instruments Research Report, published online May 2018 ( <https://www....> )
- Blonquist, M. and J. Johns "Accurate PAR Measurement: Comparison of Eight Quantum Sensor Models."
- Bollman, M. A., G. E. DeSantis, R. S. Waschmann and P. M. Mayer (2021). "Effects of shading and composition on green roof media temperature and moisture." *Journal of Environmental Management* 281: 111882.
- Borsuk, A. M. and C. R. Brodersen (2019). "The Spatial Distribution of Chlorophyll in Leaves." *Plant Physiol* 180(3): 1406-1417.
- Brantley, S., K. Novick, P. Bolstad, A. Oishi, S. Denham and C. Miniati (2019). Quantifying the effects of stand age on components of forest evapotranspiration. XI International Workshop on Sap Flow 1300.
- Burnaford, J. L., T.-V. T. Nguyen, S. Y. Henderson and K. L. Van Alstyne (2021). "Linking Physiology To Ecological Function: Environmental Conditions Affect Performance And Size Of The Intertidal Kelp *Hedophyllum Sessile* (Laminariales, Phaeophyceae)." *Journal of phycology* 57(1): 128-142.
- Chang, Y.-C. and T.-C. Lin (2020). "Temperature Effects on Fruit Development and Quality Performance of Nagami Kumquat (*Fortunella margarita* [Lour.] Swingle)." *The Horticulture Journal*: UTD-120.
- Chen, C.-I., Y.-N. Wang and J.-C. Yu (2019). "Diurnal and seasonal CO<sub>2</sub> assimilation by four plantation species in Taiwan." *Forest Science* 65(1): 68-76.
- Chen, C.-I., Y.-N. Wang and J.-C. J. F. S. Yu (2018). "Diurnal and Seasonal CO<sub>2</sub> Assimilation by Four Plantation Species in Taiwan." 65(1): 68-76.
- Chen, L., W. Han, D. Liu and G. Liu (2019). "How forest gaps shaped plant diversity along an elevational gradient in Wolong National Nature Reserve?" *Journal of Geographical Sciences* 29(7): 1081-1097.
- Cirotto, R. M., J. M. Facelli and J. R. Watling (2018). "A native parasitic plant affects the performance of an introduced host regardless of environmental variation across field sites." *Functional Plant Biology* 45(11): 1128-1137.
- Connell, S. D., Z. A. Doubleday, N. R. Foster, S. B. Hamlyn, C. D. Harley, B. Helmuth, B. P. Kelaher, I. Nagelkerken, K. L. Rodgers and G. Sarà (2018). *The duality of ocean acidification as a resource and a stressor*, Wiley Online Library.
- Cranston, B. M., B. F. Powers and C. Macinnis - Ng (2020). "Inexpensive throughfall exclusion experiment for single large trees." *Applications in plant sciences* 8(2).
- Craver, J. K., J. K. Boldt and R. G. Lopez (2019). "Comparison of supplemental lighting provided by

- high-pressure sodium lamps or light-emitting diodes for the propagation and finishing of bedding plants in a commercial greenhouse." *HortScience* 54(1): 52-59.
- Currey, C. J., N. J. Flax, A. G. Litvin and V. C. Metz (2019). "Substrate volumetric water content controls growth and development of containerized culinary herbs." *Agronomy* 9(11): 667.
- De Roo, L., J. Bloemen, Y. Dupon, R. L. Salomón and K. Steppe (2019). "Axial diffusion of respired CO<sub>2</sub> confounds stem respiration estimates during the dormant season." *Annals of Forest Science* 76(2): 52.
- De Stasio, B. T., A. E. Beranek and M. B. Schrimpf (2018). "Zooplankton-phytoplankton interactions in Green Bay, Lake Michigan: lower food web responses to biological invasions." *Journal of Great Lakes Research* 44(5): 910-923.
- Del Mondo, A., G. Pinto, D. A. Carbone, A. Pollio and A. De Natale (2018). "Biofilm architecture on different substrates of an *Oculatella subterranea* (Cyanobacteria) strain isolated from Pompeii archaeological site (Italy)." *Environ Sci Pollut Res Int* 25(26): 26079-26089.
- dos Santos Gouvêa, P. R. and R. A. Marengo (2018). "Is a reduction in stomatal conductance the main strategy of *Garcinia brasiliensis* (Clusiaceae) to deal with water stress?" *Theoretical and Experimental Plant Physiology* 30(4): 321-333.
- Eyal, G., I. Cohen, L. Eyal-Shaham, O. Ben-Zvi, Y. Tikochinski and Y. Loya (2019). "Photoacclimation and induction of light-enhanced calcification in the mesophotic coral *Euphyllia paradivisa*." *R Soc Open Sci* 6(2): 180527.
- Falace, A., S. Kaleb, G. De La Fuente, V. Asnaghi and M. Chiantore (2018). "Ex situ cultivation protocol for *Cystoseira amentacea* var. *stricta* (Fucales, Phaeophyceae) from a restoration perspective." *PLoS one* 13(2): e0193011.
- Falace, A., S. Kaleb, G. De La Fuente, V. Asnaghi and M. Chiantore (2018). "Ex situ cultivation protocol for *Cystoseira amentacea* var. *stricta* (Fucales, Phaeophyceae) from a restoration perspective." *PLoS One* 13(2): e0193011.
- Falace, A., L. Tamburello, G. Guarnieri, S. Kaleb, L. Papa and S. Frascchetti (2018). "Effects of a glyphosate-based herbicide on *Fucus virsoides* (Fucales, Ochrophyta) photosynthetic efficiency." *Environmental Pollution* 243: 912-918.
- Falace, A., L. Tamburello, G. Guarnieri, S. Kaleb, L. Papa and S. Frascchetti (2018). "Effects of a glyphosate-based herbicide on *Fucus virsoides* (Fucales, Ochrophyta) photosynthetic efficiency." *Environ Pollut* 243(Pt B): 912-918.
- Fanesi, A., M. Lavayssière, C. Breton, O. Bernard, R. Briandet and F. Lopes (2021). "Shear stress affects the architecture and cohesion of *Chlorella vulgaris* biofilms." *Scientific Reports* 11(1): 1-11.
- Felline, S., L. Del Coco, S. Kaleb, G. Guarnieri, S. Frascchetti, A. Terlizzi, F. P. Fanizzi and A. Falace (2019). "The response of the algae *Fucus virsoides* (Fucales, Ochrophyta) to Roundup(R) solution exposure: A metabolomics approach." *Environ Pollut* 254(Pt A): 112977.
- Feng, J., K. Zhao, D. He, S. Fang, T. Lee, C. Chu and F. He (2018). "Comparing shade tolerance measures of woody forest species." *PeerJ* 6: e5736.
- Ferrio, J. P., Y. Kurosawa, M. Wang and S. Mori (2018). "Hydraulic constraints to whole-tree water use and respiration in young *Cryptomeria* trees under competition." *Forests* 9(8): 449.
- Fiandino, S. I., J. O. Plevich, J. C. Tarico, C. Nuñez, V. Rusch and J. E. Gyenge (2018). "Effects of low - density *Pinus elliottii* (Slash pine) afforestation on environmental conditions and native plant diversity, in the mountains of central Argentina." *Applied Vegetation Science* 21(3): 442-450.
- Flax, N. J., C. J. Currey, J. A. Schrader, D. Grewell and W. R. Graves (2018). "Coconut coir and peat biocontainers influence plant growth retardant drench efficacy." *HortTechnology* 28(3): 370-377.
- Fu, P. (2018). Bioconversion of solar energy for the sustainable enhancement of universal villages. 2018 4th International Conference on Universal Village (UV), IEEE.
- Fu, P. (2018). Bioconversion of solar energy for the sustainable enhancement of universal villages. 2018 4th International Conference on Universal Village (UV), IEEE.
- Fukuda, N., N. Kanesaka, L. Okushima and S. Sase (2019). Effects of over-night lighting by red light emitting diodes on the growth and photosynthesis of lettuce under CO<sub>2</sub> enrichment. International Symposium on Advanced Technologies and Management for Innovative Greenhouses: GreenSys2019 1296.

- George, G. M., K. Kölling, R. Kuenzli, M. Hirsch-Hoffmann, P. Flütsch and S. C. Zeeman (2018). Design and Use of a Digitally Controlled Device for Accurate, Multiplexed Gas Exchange Measurements of the Complete Foliar Parts of Plants. *Photosynthesis*, Springer: 45-68.
- Ghaffari, Z., M. Rahimmalek and M. R. Sabzalian (2019). "Variation in the primary and secondary metabolites derived from the isoprenoid pathway in the *Perovskia* species in response to different wavelengths generated by light emitting diodes (LEDs)." *Industrial Crops and Products* 140: 111592.
- Giesbrecht, K. E. and D. E. Varela (2021). "Summertime biogenic silica production and silicon limitation in the Pacific Arctic Region from 2006 to 2016." *Global Biogeochemical Cycles* 35(1): e2020GB006629.
- Gimeno, T. E., T. R. McVicar, A. P. O'Grady, D. T. Tissue and D. S. Ellsworth (2018). "Elevated CO<sub>2</sub> did not affect the hydrological balance of a mature native *Eucalyptus* woodland." *Global change biology* 24(7): 3010-3024.
- Gitelson, A. A., T. J. Arkebauer and A. E. Suyker (2018). "Convergence of daily light use efficiency in irrigated and rainfed C3 and C4 crops." *Remote sensing of environment* 217: 30-37.
- Gomez - Casanovas, N., N. J. DeLucia, C. J. Bernacchi, E. H. Boughton, J. P. Sparks, S. D. Chamberlain and E. H. DeLucia (2018). "Grazing alters net ecosystem C fluxes and the global warming potential of a subtropical pasture." *Ecological Applications* 28(2): 557-572.
- Gong, Y., C. L. Staudhammer, G. Kenney, S. Wiesner, Y. Zhang and G. Starr (2021). "Vegetation structure drives forest phenological recovery after hurricane." *Science of The Total Environment* 774: 145651.
- Gong, Y., C. L. Staudhammer, S. Wiesner, G. Starr and Y. Zhang (2021). "Characterizing Growing Season Length of Subtropical Coniferous Forests with a Phenological Model." *Forests* 12(1): 95.
- Gong, Y., C. L. Staudhammer, S. Wiesner, G. Starr and Y. Zhang (2021). Characterizing Growing Season Length of Subtropical Coniferous Forests with a Phenological Model. *Forests* 2021, 12, 95, s Note: MDPI stays neutral with regard to jurisdictional claims in ...
- Gotoh, E., N. Suetsugu, W. Yamori, K. Ishishita, R. Kiyabu, M. Fukuda, T. Higa, B. Shirouchi and M. Wada (2018). "Chloroplast Accumulation Response Enhances Leaf Photosynthesis and Plant Biomass Production." *Plant Physiol* 178(3): 1358-1369.
- Gould, M. I. K., A. J. Nienow, A. V. Nienow and J. A. Nienow (2019). "Short term effects of Hurricane Irma on the phytoplankton of Lake Louise, Georgia, USA." *Georgia Journal of Science* 77(2): 14.
- Graham, E. A., M. Hansen, W. J. Kaiser, Y. Lam, E. Yuen and P. W. Rundel (2021). "Dynamic Microclimate Boundaries across a Sharp Tropical Rainforest-Clearing Edge." *Remote Sensing* 13(9): 1646.
- Gramatikov, P., R. Totorov, B. Hotinov and J. Karadjov (2019). "BIOTECHNOLOGY MODULE FOR SPACE BIOLOGICAL LIFE SUPPORT SYSTEMS." Space Research and Technology Institute-BAS, Bulgaria Konstantin Preslavsky University-Faculty of Technical Sciences Association Scientific and Applied Research 15: 22.
- Guggenheim, C., A. Brand, H. Burgmann, L. Sigg and B. Wehrli (2019). "Aerobic methane oxidation under copper scarcity in a stratified lake." *Sci Rep* 9(1): 4817.
- Gwinn, J. K., A. Robertson and R. P. Kiene (2019). "Effect of Salinity on DMSP Production in *Gambierdiscus belizeanus* (Dinophyceae)." *J Phycol.*
- Ha, S. Y., J. O. Min, H. Joo, M. S. Kim, S. H. Kang and K. H. Shin (2018). "Synthesis of mycosporine-like amino acids by a size-fractionated marine phytoplankton community of the arctic beaufort sea." *J Photochem Photobiol B* 188: 87-94.
- Harper, K., Y. Takanashi and K. Keigo (2018). "Catharanthus roseus for Domestic Production of Vinblastine Using an Environmentally Controlled Room with Artificial Lighting." *CCAMLR Science*: 381-387.
- Hartmann, A., K. Glaser, A. Holzinger, M. Ganzera and U. Karsten (2020). "Klebsormidin A and B, two new UV-sunscreen compounds in green microalgal interfilum and *Klebsormidium* Species (Streptophyta) from terrestrial habitats." *Frontiers in microbiology* 11: 499.
- Hiers, J. K., C. L. Staudhammer, J. J. O'Brien, H. L. Gholz, T. A. Martin, J. Hom and G. Starr (2019). "Fine dead fuel moisture shows complex lagged responses to environmental conditions in a saw palmetto (*Serenoa repens*) flatwoods." *Agricultural and Forest Meteorology* 266: 20-28.
- Hinode, K., P. PUNCHAI, M. SAITSU, G. N. NISHIHARA, Y. INOUE and R. TERADA (2020). "The phenology of gross

- ecosystem production in a macroalga and seagrass canopy is driven by seasonal temperature." *Phycological Research* 68(4): 298-312.
- Hitz, T., M. Henke, S. Graeff-Hönninger and S. Munz (2019). "Three-dimensional simulation of light spectrum and intensity within an LED growth chamber." *Computers and electronics in agriculture* 156: 540-548.
- Hoeber, V., M. Klinghardt and G. Zotz (2020). "Drought resistance does not explain epiphytic abundance of accidental epiphytes." *Plant Ecology & Diversity* 13(2): 175-187.
- Hornslein, N. J., C. Siegert and H. J. Renninger (2019). "Physiological response of mid-canopy sweetgum trees to overstory loblolly pine mortality." *Trees* 33(1): 139-151.
- Hotter, V., K. Glaser, A. Hartmann, M. Ganzera and U. Karsten (2018). "Polyols and UV - sunscreens in the *Prasiola* - clade (Trebouxiophyceae, Chlorophyta) as metabolites for stress response and chemotaxonomy." *Journal of phycology* 54(2): 264-274.
- Huyskens-Keil, S., I. Eichholz-Dündar, K. Hassenberg and W. Herppich (2020). "Impact of light quality (white, red, blue light and UV-C irradiation) on changes in anthocyanin content and dynamics of PAL and POD activities in apical and basal spear sections of white asparagus after harvest." *Postharvest Biology and Technology* 161: 111069.
- Hwang, J.-H. and N. Maier (2019). "Effects of LED-controlled spatially-averaged light intensity and wavelength on *Neochloris oleoabundans* growth and lipid composition." *Algal Research* 41: 101573.
- Idris, M., N. Seo, L. Jiang, S. Kiyota, J. Hidema and M. Iino (2021). "UV-B signalling in rice: Response identification, gene expression profiling and mutant isolation." *Plant, Cell & Environment* 44(5): 1468-1485.
- Inoue, S., Q.-L. Dang, R. Man and B. Tedla (2019). "Northward migration of trembling aspen will increase growth but reduce resistance to drought-induced cavitation in the xylem." *Botany* 97(11): 627-638.
- Inoue, S., Q.-L. Dang, R. Man and B. Tedla (2019). "Northward migration of trembling aspen will increase growth but reduce resistance to drought-induced xylem cavitation." *Botany* 97(11): 627-638.
- Jacinavicius, F. R., L. R. De Carvalho, R. L. Carneiro and C. L. Sant'Anna (2018). "The influence of temperature on *Radiocystis fernandoi* strain (cyanobacteria) growth and microcystin production." *Brazilian Journal of Botany* 41(3): 675-680.
- Jeong, S., J. Ko, J. Choi, W. Xue and J.-m. Yeom (2018). "Application of an unmanned aerial system for monitoring paddy productivity using the GRAMI-rice model." *International Journal of Remote Sensing* 39(8): 2441-2462.
- Johnson, M. G., T. P. Luxton, P. T. Rygielwicz, J. R. Reichman, M. A. Bollman, G. A. King, M. J. Storm, M. S. Nash and C. P. Andersen (2021). "Transformation and release of micronized Cu used as a wood preservative in treated wood in wetland soil." *Environmental Pollution* 287: 117189.
- Junttila, S., T. Hölttä, L. Lindfors, A. El Issaoui, M. Vastaranta, H. Hyypä and E. Puttonen (2021). "Why trees sleep?-explanations to diurnal branch movement."
- Kalaitzoglou, P., C. Taylor, K. Calders, M. Hogervorst, W. van Ieperen, J. Harbinson, P. de Visser, C. C. S. Nicole and L. F. M. Marcelis (2021). "Unraveling the effects of blue light in an artificial solar background light on growth of tomato plants." *Environmental and Experimental Botany* 184: 104377.
- Karki, N. and P. D. Bates (2018). "The effect of light conditions on interpreting oil composition engineering in *Arabidopsis* seeds." *Plant Direct* 2(6): e00067.
- Karlsson, T., R. Rinnan and T. Holst (2020). "Variability of BVOC Emissions from Commercially Used Willow (*Salix* spp.) Varieties." *Atmosphere* 11(4): 356.
- KARVATTE JUNIOR, N., F. V. Alves, R. G. de Almeida, E. S. Miyagi, C. d. O. RAMOS, C. BARRTO, A. P. Mastelaro and B. Ferrari (2019). Multiple factor analysis to identify correlated variable among microclimate, thermal comfort and infrared thermography in agroforestry systems. *Embrapa Gado de Corte-Artigo em anais de congresso (ALICE)*, In: CONGRESO INTERNACIONAL DE SISTEMAS SILVOPASTORILES 10., 2019, Asunción ....
- Khanh, N. T. T. "CULTURE OF EUGLENA WITH DIGESTATE FROM METHANE FERMENTATION."
- Khoshkhoo, A., A. L. Carrano, D. M. Blersch and K. Kardel (2019). "Engineering of bio-mimetic substratum topographies for enhanced early colonization of filamentous algae." *PloS one* 14(7): e0219150.

- Khoshkhoo, A., A. L. Carrano, D. M. Blersch and K. Kardel (2019). "Engineering of bio-mimetic substratum topographies for enhanced early colonization of filamentous algae." *PLoS One* 14(7): e0219150.
- Kiew, F., R. Hirata, T. Hirano, G. X. Wong, E. B. Aeries, K. K. Musin, J. W. Waili, K. San Lo, M. Shimizu and L. Melling (2018). "CO<sub>2</sub> balance of a secondary tropical peat swamp forest in Sarawak, Malaysia." *Agricultural and Forest Meteorology* 248: 494-501.
- Kiew, F., R. Hirata, T. Hirano, W. G. Xhuan, E. B. Aries, K. Kemudang, J. Wenceslaus, L. K. San and L. Melling (2020). "Carbon dioxide balance of an oil palm plantation established on tropical peat." *Agricultural and Forest Meteorology* 295: 108189.
- Kimm, H., K. Guan, C. H. Burroughs, B. Peng, E. A. Ainsworth, C. J. Bernacchi, C. E. Moore, E. Kumagai, X. Yang and J. A. Berry (2021). "Quantifying high-temperature stress on soybean canopy photosynthesis: The unique role of sun-induced chlorophyll fluorescence." *Global change biology* 27(11): 2403-2415.
- Klem, K., A. Gargallo-Garriga, W. Rattanapichai, M. Oravec, P. Holub, B. Vesela, J. Sardans, J. Penuelas and O. Urban (2019). "Distinct Morphological, Physiological, and Biochemical Responses to Light Quality in Barley Leaves and Roots." *Front Plant Sci* 10: 1026.
- Kolb, T., K. Keefover-Ring, S. J. Burr, R. Hofstetter, M. Gaylord and K. F. Raffa (2019). "Drought-Mediated Changes in Tree Physiological Processes Weaken Tree Defenses to Bark Beetle Attack." *J Chem Ecol*: 1-13.
- Kooijmans, L. M. J., W. Sun, J. Aalto, K. M. Erkkila, K. Maseyk, U. Seibt, T. Vesala, I. Mammarella and H. Chen (2019). "Influences of light and humidity on carbonyl sulfide-based estimates of photosynthesis." *Proc Natl Acad Sci U S A* 116(7): 2470-2475.
- Kowalczyk, K., D. Olewnicki, M. Mirgos and J. Gajc-Wolska (2020). "Comparison of Selected Costs in Greenhouse Cucumber Production with LED and HPS Supplemental Assimilation Lighting." *Agronomy* 10(9): 1342.
- Kvernvik, A. C., C. J. M. Hoppe, E. Lawrenz, O. Prasil, M. Greenacre, J. M. Wiktor and E. Leu (2018). "Fast reactivation of photosynthesis in arctic phytoplankton during the polar night(1)." *J Phycol* 54(4): 461-470.
- Lee, S.-C., A. Christen, T. A. Black, R. S. Jassal, F. Briegel and Z. Nestic (2021). "Combining flux variance similarity partitioning with artificial neural networks to gap-fill measurements of net ecosystem production of a Pacific Northwest Douglas-fir stand." *Agricultural and Forest Meteorology* 303: 108382.
- Legay, N., J.-C. Clément, F. Grassein, S. Lavorel, S. Lemauiel-Lavenant, E. Personeni, F. Poly, T. Pommier, T. M. Robson and B. Mouhamadou (2020). "Plant growth drives soil nitrogen cycling and N-related microbial activity through changing root traits." *Fungal Ecology* 44: 100910.
- Leheveer, R. (2019). Vertikaalne fotobioreaktor *Spirulina* kasvatamiseks koduse kasutamise eesmärgil, Eesti Maaülikool.
- Li, Q., T. Sugihara, S. Shibusawa and M. Li (2021). "Hydrotropic Root Behavior in Water-Saving Cultivation: A High-Resolution Monitoring Study of Soil Water Dynamics."
- Liu, C., Z. Yao, K. Wang, X. Zheng and B. Li (2019). "Net ecosystem carbon and greenhouse gas budgets in fiber and cereal cropping systems." *Sci Total Environ* 647: 895-904.
- Llewellyn, D., J. Lindqvist and Y. Zheng (2018). How intelligently controlled LEDs can be used to more efficiently manage supplemental lighting in greenhouse production systems. XXX International Horticultural Congress IHC2018: III International Symposium on Innovation and New Technologies in Protected 1271.
- Mah, J. J., D. Llewellyn and Y. Zheng (2018). "Morphology and flowering responses of four bedding plant species to a range of red to far red ratios." *HortScience* 53(4): 472-478.
- Mallmann, I., V. Silva, R. Port, F. Oliveira and J. Schmitt (2019). "Spatial distribution analysis of *Dicksonia sellowiana* Hook. in *Araucaria* forest fragments with different sizes." *Brazilian Journal of Biology* 79(2): 337-344.
- Mallmann, I. T., V. L. Silva, R. K. Port, F. B. Oliveira and J. L. Schmitt (2019). "Spatial distribution analysis of *Dicksonia sellowiana* Hook. in *Araucaria* forest fragments with different sizes." *Braz J Biol* 79(2): 337-344.
- Manco, A., F. Brillì, D. Famulari, D. Gasbarra, B. Gioli, L. Vitale, P. di Tommasi, B. Loubet, C. Arena and V. Magliulo (2021). "Cross-correlations of Biogenic

- Volatile Organic Compounds (BVOC) emissions typify different phenological stages and stressful events in a Mediterranean Sorghum plantation." *Agricultural and Forest Meteorology* 303: 108380.
- Manco, A., D. Gasbarra, D. Famulari, P. Di Tommasi, F. Brilli, C. Arena, B. Gioli, E. Magliulo and L. Vitale (2019). Biogenic Volatile Organic Compounds (BVOCs) exchanges over *Sorghum bicolor* L. during a whole growing season in the Southern Europe. 2019 IEEE International Workshop on Metrology for Agriculture and Forestry (MetroAgriFor), IEEE.
- Marchetti, C. F., M. Skrabisova, P. Galuszka, O. Novak and H. F. Causin (2018). "Blue light suppression alters cytokinin homeostasis in wheat leaves senescing under shading stress." *Plant Physiol Biochem* 130: 647-657.
- Markovic, S. J. and J. E. Klett (2020). "Increasing Stock Production of Two Herbaceous Perennials with the Application of Plant Growth Regulators." *HortTechnology* 30(3): 421-427.
- Markovic, S. J. and J. E. Klett (2021). "Influencing Stock Production of Mojave Sage and Cape Daisy with the Application of Plant Growth Regulators." *HortTechnology* 1(aop): 1-7.
- Marque'l, K. G., A. J. Nienow, A. V. Nienow and J. A. Nienow (2019). "SHORT TERM EFFECTS OF HURRICANE IRMA ON THE PHYTOPLANKTON OF LAKE LOUISE, GEORGIA, USA." *Georgia Journal of Science* 77(2): 1-16.
- Matys, E. D., T. Mackey, C. Grettenberger, E. Mueller, A. Jungblut, D. Y. Sumner, I. Hawes and R. E. Summons (2019). "Environmental controls on bacteriohopanepolyol profiles of benthic microbial mats from Lake Fryxell, Antarctica." *Geobiology* 17(5): 551-563.
- Meyer, G., T. A. Black, R. S. Jassal, Z. Nestic, N. C. Coops, A. Christen, A. L. Fredeen, D. L. Spittlehouse, N. J. Grant and V. N. Foord (2018). "Simulation of net ecosystem productivity of a lodgepole pine forest after mountain pine beetle attack using a modified version of 3-PG." *Forest Ecology and Management* 412: 41-52.
- Míguez, F., A. Holzinger, B. Fernandez-Marín, G. García-Plazaola, U. Karsten and L. Gustavs (2020). "Ecophysiological changes and spore formation: two strategies in response to low-temperature and high-light stress in *Klebsormidium* cf. *flaccidum* (Klebsormidiophyceae, Streptophyta)." *J. Phycol* 15: 649-661.
- Míguez, F., A. Holzinger, B. Fernandez - Marin, J. I. García - Plazaola, U. Karsten and L. Gustavs (2020). "Ecophysiological changes and spore formation: two strategies in response to low - temperature and high - light stress in *Klebsormidium* cf. *flaccidum* (Klebsormidiophyceae, Streptophyta)." *Journal of phycology* 56(3): 649-661.
- Min, K. J., D. Y. Oh and K. Y. Park (2021). "Pilot-scale cultivation of water-net in secondary effluent using an open pond raceway for nutrient removal and bioethanol production." *Chemosphere* 277: 130129.
- Moldaenke, C., Y. Fang, F. Yang and A. Dahlhaus (2019). "Early warning method for cyanobacteria toxin, taste and odor problems by the evaluation of fluorescence signals." *Sci Total Environ* 667: 681-690.
- MOREIRA, G., R. de ALMEIDA, J. de ABREU, J. RODRIGUES, E. de ALMEIDA, D. HERRERA, C. CABRAL, A. DOERZBACHER, L. ASSIS and J. BARBOSA JUNIOR (2018). Características fitométricas de sorgo consorciado com capim-piatã em sub-bosque de eucalipto. Embrapa Gado de Corte-Artigo em anais de congresso (ALICE), In: In: CONGRESSO BRASILEIRO DE SISTEMAS INTEGRADOS DE PRODUÇÃO AGROPECUÁRIA ....
- Mosharov, S. A., V. M. Sergeeva, V. V. Kremenetskiy, A. F. Sazhin and S. V. Stepanova (2019). "Assessment of phytoplankton photosynthetic efficiency based on measurement of fluorescence parameters and radiocarbon uptake in the Kara Sea." *Estuarine, Coastal and Shelf Science* 218: 59-69.
- Mosharov, S. A., V. M. Sergeeva, V. V. Kremenetskiy, A. F. Sazhin and S. V. Stepanova (2019). "Dataset of phytoplankton productive parameters and environmental forces in autumn in the Kara Sea." *Data in brief* 22: 821-825.
- Mosharov, S. A., V. M. Sergeeva, V. V. Kremenetskiy, A. F. Sazhin and S. V. Stepanova (2019). "Dataset of phytoplankton productive parameters and environmental forces in autumn in the Kara Sea." *Data Brief* 22: 821-825.
- Moya Jiménez, M. R. (2021). "Characterization of subsoil CO<sub>2</sub> dynamics in two semiarid ecosystems: global scale implications."
- Moysset, L., E. Llambrich and E. Simon (2019). "Calcium changes in *Robinia pseudoacacia* pulvinar motor cells

- during nyctinastic closure mediated by phytochromes." *Protoplasma* 256(3): 615-629.
- Mu, M., M. G. De Kauwe, A. M. Ukkola, A. J. Pitman, T. E. Gimeno, B. E. Medlyn, D. Or, J. Yang and D. S. Ellsworth (2021). "Evaluating a land surface model at a water-limited site: implications for land surface contributions to droughts and heatwaves." *Hydrology and Earth System Sciences* 25(1): 447-471.
- Mu, M., M. G. De Kauwe, A. M. Ukkola, A. J. Pitman, T. E. Gimeno, B. E. Medlyn, D. Or, J. Yang and D. S. Ellsworth (2021). "Evaluating a land surface model at a water-limited site: implications for land surface contributions to droughts and heatwaves." *Hydrology and Earth System Sciences* 25(1): 447-471.
- Munz, S., S. Graeff-Hönninger and M. Henke (2018). Functional-structural plant model for testing the effect of maize architecture on hourly light distribution in strip-intercropping systems. 2018 6th International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications (PMA), IEEE.
- Nabel, M., S. D. Schrey, H. Poorter, R. Koller, K. A. Nagel, V. M. Temperton, C. C. Dietrich, C. Briese and N. D. Jablonowski (2018). "Coming Late for Dinner: Localized Digestate Depot Fertilization for Extensive Cultivation of Marginal Soil With *Sida hermaphrodita*." *Front Plant Sci* 9: 1095.
- Nackley, L. L., E. F. de Sousa, B. J. Pitton, J. Sisneroz and L. R. Oki (2020). "Developing a Water-stress Index for Potted Poinsettia Production." *HortScience* 55(8): 1295-1302.
- Nagano, H., H. Ikawa, T. Nakai, M. Matsushima-Yashima, H. Kobayashi, Y. Kim and R. Suzuki (2018). "Extremely dry environment down-regulates nighttime respiration of a black spruce forest in Interior Alaska." *Agricultural and Forest Meteorology* 249: 297-309.
- Nayak, M., W. I. Suh, B. Lee and Y. K. Chang (2018). "Enhanced carbon utilization efficiency and FAME production of *Chlorella* sp. HS2 through combined supplementation of bicarbonate and carbon dioxide." *Energy Conversion and Management* 156: 45-52.
- Neufeld, H. S. and F. S. Perkins (2021). "Host tree species mediate corticolous lichen responses to elevated CO<sub>2</sub> and O<sub>3</sub> after 10 years exposure in the Aspen-FACE system." *Science of the Total Environment* 764: 142875.
- 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.
- Nguyen, B. T. and B. E. Rittmann (2018). "Low-cost optical sensor to automatically monitor and control biomass concentration in microalgal cultivation." *Algal research* 32: 101-106.
- Ohtake, M., R. Kurita, M. Tsunogai, G. N. Nishihara and T. Toda (2021). "Storage capacity for phosphorus during growth and maturation in a brown alga *Sargassum macrocarpum*." *Science of The Total Environment* 750: 141221.
- Oishi, A. C., C. F. Miniati, K. A. Novick, S. T. Brantley, J. M. Vose and J. T. Walker (2018). "Warmer temperatures reduce net carbon uptake, but do not affect water use, in a mature southern Appalachian forest." *Agricultural and forest meteorology* 252: 269-282.
- Oliveira, M. and R. A. Marengo (2019). "Photosynthesis and biomass accumulation in *Carapa surinamensis* (Meliaceae) in response to water stress at ambient and elevated CO<sub>2</sub>." Volume 57, Número 1, Pags. 137-146.
- Ondier, J., D. O. Okach, O. C. John and D. O. Otieno (2020). "Influence of rainfall amount and livestock grazing on soil respiration in a moist Kenyan savannah." *African Journal of Ecology* 58(1): 92-99.
- Ondier, J. O., D. O. Okach, J. C. Onyango and D. O. Otieno (2021). "Ecosystem productivity and CO<sub>2</sub> exchange response to the interaction of livestock grazing and rainfall manipulation in a Kenyan savanna." *Environmental and Sustainability Indicators* 9: 100095.
- Osada, N. (2021). "Differential springtime branch warming controls intra-crown nitrogen allocation and leaf photosynthetic traits in understory saplings of a temperate deciduous species." *Oecologia*: 1-10.
- Paradiso, V. M., M. Castellino, M. Renna, C. E. Gattullo, M. Calasso, R. Terzano, I. Allegretta, B. Leoni, F. Caponio and P. Santamaria (2018). "Nutritional characterization and shelf-life of packaged microgreens." *Food & function* 9(11): 5629-5640.
- Paradiso, V. M., M. Castellino, M. Renna, C. E. Gattullo, M. Calasso, R. Terzano, I. Allegretta, B. Leoni, F. Caponio and P. Santamaria (2018). "Nutritional characterization and shelf-life of packaged



- microgreens." *Food Funct* 9(11): 5629-5640.
- Paradiso, V. M., M. Castellino, M. Renna, B. Leoni, F. Caponio and P. Santamaria (2018). "Simple tools for monitoring chlorophyll in broccoli raab and radish microgreens on their growing medium during cold storage." *Prog. Nutr* 20: 1-8.
- Park, J., S. Cho, M. Moon, D. Ryu and H. S. Kim (2021). "Developing stand transpiration model relating canopy conductance to stand sapwood area in a Korean pine plantation." *iForest-Biogeosciences and Forestry* 14(2): 186.
- Park, J., T. Kim, M. Moon, S. Cho, D. Ryu and H. S. Kim (2018). "Effects of thinning intensities on tree water use, growth, and resultant water use efficiency of 50-year-old *Pinus koraiensis* forest over four years." *Forest Ecology and Management* 408: 121-128.
- Paula Corrêa, M. d., S. Godin-Beekmann, F. Bolzan Martins, K. Mendes, M. Haeffelin, M. Rivas and E. Rojas (2018). "Retrieval of health-related UV doses from PAR measurements." *Atmospheric Measurement Techniques Discussions*: 1-12.
- Pavlov, A. K., E. Leu, D. Hanelt, I. Bartsch, U. Karsten, S. R. Hudson, J.-C. Gallet, F. Cottier, J. H. Cohen and J. Berge (2019). The underwater light climate in Kongsfjorden and its ecological implications. *The Ecosystem of Kongsfjorden, Svalbard*, Springer: 137-170.
- Pavlov, A. K., E. Leu, D. Hanelt, I. Bartsch, U. Karsten, S. R. Hudson, J.-C. Gallet, F. Cottier, J. H. Cohen and J. Berge (2019). The underwater light climate in Kongsfjorden and its ecological implications. *The Ecosystem of Kongsfjorden, Svalbard*, Springer: 137-170.
- Peng, S.-H., H.-H. Wang and Y.-L. Kuo (2019). "Methods for preventing the invasion of *leucaena leucocephala* in coastal forests of the Hengchun Peninsula, Taiwan." *Taiwan Journal of Forest Science* 34(2): 99-112.
- 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.
- Pescheck, F. and W. Bilger (2019). "High impact of seasonal temperature changes on acclimation of photoprotection and radiation-induced damage in field grown *Arabidopsis thaliana*." *Plant Physiol Biochem* 134: 129-136.
- Pfeifer, D., A. Russegger, I. Klimant and S. M. Borisov (2020). "Green to red emitting BODIPY dyes for fluorescent sensing and imaging of carbon dioxide." *Sensors and Actuators B: Chemical* 304: 127312.
- Phinney, N. H., Y. Gauslaa and K. A. Solhaug (2019). "Why chartreuse? The pigment vulpinic acid screens blue light in the lichen *Letharia vulpina*." *Planta* 249(3): 709-718.
- Phinney, N. H., Y. Gauslaa and K. A. Solhaug (2019). "Why chartreuse? The pigment vulpinic acid screens blue light in the lichen *Letharia vulpina*." *Planta* 249(3): 709-718.
- Pruvost, J. (2019). Cultivation of algae in photobioreactors for biodiesel production. *Biofuels: Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels*, Elsevier: 629-659.
- Quan, N. (2021). Greenhouse gas exchange above potato and pea fields in the lower Fraser Valley in British Columbia, Canada PhD Thesis, University of British Columbia.
- 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.
- Quinn, J. M., J. C. Rutherford and S. J. Schiff (2020). "Nutrient attenuation in a shallow, gravel-bed river. I. In-situ chamber experiments." *New Zealand Journal of Marine and Freshwater Research* 54(3): 393-409.
- Reed, D. E., B. E. Ewers, E. Pendall, J. Frank and R. Kelly (2018). "Bark beetle-induced tree mortality alters stand energy budgets due to water budget changes." *Theoretical and applied climatology* 131(1): 153-165.
- Rey-Sanchez, C. and J. M. Posada (2019). "Effect of temporally heterogeneous light on photosynthetic light use efficiency, plant acclimation and growth in *Abatia parviflora*." *Functional Plant Biology* 46(7): 684-693.
- Rissanen, K., A. Vanhatalo, Y. Salmon, J. Bäck and T. Hölttä (2020). "Stem emissions of monoterpenes,

- acetaldehyde and methanol from Scots pine (*Pinus sylvestris* L.) affected by tree–water relations and cambial growth." *Plant, cell & environment* 43(7): 1751-1765.
- Roberts, E. A. and M. E. S. Bracken (2021). "Intertidal Canopy-forming Seaweeds Modulate Understory Seaweed Photoprotective Compounds." *Journal of Phycology* 57(2): 645-654.
- Robichaud, C. (2021). "Multi-trophic effects of invasive species suppression in a coastal wetland."
- Robichaud, C. D. and R. C. Rooney (2020). "Suppression of established invasive *Phragmites australis* leads to secondary invasion." *bioRxiv*.
- Robichaud, C. D. and R. C. Rooney (2021). "Effective suppression of established invasive *Phragmites australis* leads to secondary invasion in a coastal marsh." *Invasive Plant Science and Management* 14(1): 9-19.
- Rodriguez, N. C., L. M. Melgarejo and M. W. Blair (2019). "Purple passion fruit, *Passiflora edulis* Sims f. *edulis*, variability for photosynthetic and physiological adaptation in contrasting environments." *Agronomy* 9(5): 231.
- Rugemalila, D. M., S. T. Cory, W. K. Smith and T. M. Anderson (2020). "The role of microsite sunlight environment on growth, architecture, and resource allocation in dominant *Acacia* tree seedlings, in Serengeti, East Africa." *Plant Ecology* 221(12): 1187-1199.
- Ruiz - González, C., M. C. Garcia - Chaves, I. Ferrera, J. P. Niño - García and P. A. Del Giorgio (2020). "Taxonomic differences shape the responses of freshwater aerobic anoxygenic phototrophic bacterial communities to light and predation." *Molecular ecology* 29(7): 1267-1283.
- Safa, B., T. J. Arkebauer, Q. Zhu, A. Suyker and S. Irmak (2018). "Latent heat and sensible heat flux simulation in maize using artificial neural networks." *Computers and electronics in agriculture* 154: 155-164.
- Safa, B., T. J. Arkebauer, Q. Zhu, A. Suyker and S. Irmak (2019). "Net Ecosystem Exchange (NEE) simulation in maize using artificial neural networks." *IFAC Journal of Systems and Control* 7: 100036.
- Safa, B., T. J. Arkebauer, Q. Zhu, A. Suyker and S. Irmak (2021). "Gap Filling of Net Ecosystem CO<sub>2</sub> Exchange (NEE) above Rain-Fed Maize Using Artificial Neural Networks (ANNs)." *Journal of Software Engineering and Applications* 14(5): 150-171.
- Saliendra, N. Z., M. A. Liebig and S. L. Kronberg (2018). "Carbon use efficiency of hayed alfalfa and grass pastures in a semiarid environment." *Ecosphere* 9(3): e02147.
- Sanchez, A., A. C. Rey-Sánchez, J. M. Posada and W. K. Smith (2018). "Interplay of seasonal sunlight, air and leaf temperature in two alpine páramo species, Colombian Andes." *Agricultural and forest meteorology* 253: 38-47.
- Schubert, N., C. Freitas, A. Silva, M. M. Costa, I. Barrote, P. A. Horta, A. C. Rodrigues, R. Santos and J. Silva (2018). "Photoacclimation strategies in northeastern Atlantic seagrasses: Integrating responses across plant organizational levels." *Sci Rep* 8(1): 14825.
- Schuster, M. J., P. D. Wragg, L. J. Williams, E. E. Butler, A. Stefanski and P. B. Reich (2020). "Phenology matters: Extended spring and autumn canopy cover increases biotic resistance of forests to invasion by common buckthorn (*Rhamnus cathartica*)." *Forest Ecology and Management* 464: 118067.
- Shao, C., J. Chen, H. Chu, C. A. Stepien and Z. Ouyang (2020). "Intra - annual and interannual dynamics of evaporation over western Lake Erie." *Earth and Space Science* 7(11): e2020EA001091.
- Simin, T., J. Tang, T. Holst and R. Rinnan (2021). "Volatile organic compound emission in tundra shrubs—Dependence on species characteristics and the near-surface environment." *Environmental and experimental botany* 184: 104387.
- Singh, B., D. R. Chastain, K. R. Reddy, J. L. Snider, L. J. Krutz, S. R. Stetina and A. Sehgal (2020). "Early Season Morphological and Physiological Responses of Resistant and Susceptible Cotton Genotypes to Reniform Nematode and Soil Nitrogen." *Agronomy* 10(12): 1974.
- Spreitzenbarth, S., M. L. Kelly and A. Jeffs (2021). "Insights into first feeding of newly-hatched paralarvae of the merobenthic octopus, *Octopus tetricus*." *Aquaculture* 532: 736049.
- Straka, L. and B. E. Rittmann (2018). "Effect of culture density on biomass production and light utilization efficiency of *Synechocystis* sp. PCC 6803." *Biotechnology and bioengineering* 115(2): 507-511.
- Straka, L. and B. E. Rittmann (2018). "Effect of culture density on biomass production and light utilization

- efficiency of *Synechocystis* sp. PCC 6803." *Biotechnol Bioeng* 115(2): 507-511.
- Straka, L. and B. E. Rittmann (2019). "Growth kinetics and mathematical modeling of *Synechocystis* sp. PCC 6803 under flashing light." *Biotechnol Bioeng* 116(2): 469-474.
- Stratópoulos, L. M. F., S. Duthweiler, K.-H. Häberle and S. Pauleit (2018). "Effect of native habitat on the cooling ability of six nursery-grown tree species and cultivars for future roadside plantings." *Urban forestry & urban greening* 30: 37-45.
- Strubelt, I., M. Diekmann, D. Griese and D. Zacharias (2019). "Data of plant species in permanent plots in a restored coppice-with-standards forest in Northwestern Germany from 1994 to 2013." *Data in brief* 24: 103461.
- Strubelt, I., M. Diekmann, D. Griese and D. Zacharias (2019). "Data of plant species in permanent plots in a restored coppice-with-standards forest in Northwestern Germany from 1994 to 2013." *Data Brief* 24: 103461.
- Strubelt, I., M. Diekmann, D. Griese and D. Zacharias (2019). "Inter-annual variation in species composition and richness after coppicing in a restored coppice-with-standards forest." *Forest Ecology and Management* 432: 132-139.
- Supplis, C., F. Gros, G. Dahi, J. Dauchet, M. Roudet, F. Gloaguen and J.-F. Cornet (2018). "Spectral radiative analysis of bio-inspired H<sub>2</sub> production in a benchmark photoreactor: A first investigation using spatial photonic balance." *International Journal of Hydrogen Energy* 43(17): 8221-8231.
- Tai-Chung, W., L. Bai-Ling and K. Wen-Yuan (2020). "Stomatal blue light response is present in *Marsilea crenata*, an amphibious fern." *Taiwania* 65(4).
- Tan, J., R. Frouin, D. Jolivet, M. Compiègne and D. Ramon (2020). "Evaluation of the NASA OBPG MERIS ocean surface PAR product in clear sky conditions." *Optics Express* 28(22): 33157-33175.
- Taylor, C. R., W. van Ieperen and J. Harbinson (2019). "Demonstration of a relationship between state transitions and photosynthetic efficiency in a higher plant." *Biochemical Journal* 476(21): 3295-3312.
- Teixeira, M. C., F. G. Trindade, M. da Cunha, C. E. Rezende and A. P. Vitória (2018). "Ultrastructural and functional chloroplast changes promoting photoacclimation after forest management in a tropical secondary forest." *Forest Ecology and Management* 428: 27-34.
- Terada, R., K. Matsumoto, I. A. Borlongan, Y. Watanabe, G. N. Nishihara, H. Endo and S. Shimada (2018). "The combined effects of PAR and temperature including the chilling-light stress on the photosynthesis of a temperate brown alga, *Sargassum patens* (Fucales), based on field and laboratory measurements." *Journal of Applied Phycology* 30(3): 1893-1904.
- Thakur, M., V. Bhatt and R. Kumar (2019). "Effect of shade level and mulch type on growth, yield and essential oil composition of damask rose (*Rosa damascena* Mill.) under mid hill conditions of Western Himalayas." *PLoS One* 14(4): e0214672.
- Thienelt, T. S. and D. E. Anderson (2021). "Estimates of energy partitioning, evapotranspiration, and net ecosystem exchange of CO<sub>2</sub> for an urban lawn and a tallgrass prairie in the Denver metropolitan area under contrasting conditions." *Urban Ecosystems*: 1-20.
- Toivonen, P. M., J. Stoochnoff, K. Usher, C. Lu, P. A. Wiersma and C. Zhou (2019). "Biochemical and Gene Expression Involved in Red Blush Color Development in 'Ambrosia' Apple." *Journal of the American Society for Horticultural Science* 144(3): 164-171.
- Ueyama, M., H. Iwata, H. Nagano, N. Tahara, C. Iwama and Y. Harazono (2019). "Carbon dioxide balance in early-successional forests after forest fires in interior Alaska." *Agricultural and Forest Meteorology* 275: 196-207.
- Ueyama, M., N. Tahara, H. Nagano, N. Makita, H. Iwata and Y. Harazono (2018). "Leaf-and ecosystem-scale photosynthetic parameters for the overstory and understory of boreal forests in interior Alaska." *Journal of Agricultural Meteorology* 74(2): 79-86.
- Umer, B. and V. Malačič (2018). "PAR Measurements in the Gulf of Trieste (northern Adriatic Sea)." *Earth and Space Science Open Archive ESSOAr*.
- Vieira, T. O., L. S. Santiago, I. A. Pestana, E. Avila-Lovera, J. L. A. Silva and A. P. Vitoria (2021). "Species-specific performance and trade-off between growth and survival in the early-successional light-demanding group." *Photosynthetica* 59(1): 203-214.
- Volf, M., A. Weinhold, C. L. Seifert, T. Holicová, H. Uthe, E. Alander, R. Richter, J.-P. Salminen, C. Wirth and N. M. van Dam (2021). "Branch-localized induction promotes efficacy of volatile defences and herbivore predation in trees." *Journal of Chemical Ecology* 47(1):

- 99-111.
- Wagle, P., P. H. Gowda and B. K. Northup (2019). "Annual dynamics of carbon dioxide fluxes over a rainfed alfalfa field in the US Southern Great Plains." *Agricultural and Forest Meteorology* 265: 208-217.
- Wagle, P., P. H. Gowda, B. K. Northup, K. E. Turner, J. P. Neel, P. Manjunatha and Y. Zhou (2018). "Variability in carbon dioxide fluxes among six winter wheat paddocks managed under different tillage and grazing practices." *Atmospheric Environment* 185: 100-108.
- Weaver, G. and M. W. van Iersel (2020). "Longer photoperiods with adaptive lighting control can improve growth of greenhouse-grown 'Little Gem' lettuce (*Lactuca sativa*)." *HortScience* 55(4): 573-580.
- Wiesner, S., G. Starr, L. R. Boring, J. A. Cherry, P. C. Stoy and C. L. Staudhammer (2021). "Forest structure and composition drive differences in metabolic energy and entropy dynamics during temperature extremes in longleaf pine savannas." *Agricultural and Forest Meteorology* 297: 108252.
- Wiesner, S., C. L. Staudhammer, P. C. Stoy, L. R. Boring and G. Starr (2018). "Quantifying energy use efficiency via maximum entropy production: A case study from longleaf pine ecosystems."
- Williams, L. J., E. E. Butler, J. Cavender-Bares, A. Stefanski, K. E. Rice, C. Messier, A. Paquette and P. B. Reich (2021). "Enhanced light interception and light use efficiency explain overyielding in young tree communities." *Ecology Letters* 24(5): 996-1006.
- Williams, L. J., J. Cavender - Bares, A. Paquette, C. Messier and P. B. Reich (2020). "Light mediates the relationship between community diversity and trait plasticity in functionally and phylogenetically diverse tree mixtures." *Journal of Ecology* 108(4): 1617-1634.
- Williamson, K. (2020). "Effects of Different Air Temperature and Light Quality/Intensity on Growth and Folate Biosynthesis in Leaf Lettuce." *CCAMLR Science* 27(1): 83-89.
- Wolske, E., L. Chatham, J. Juvik and B. Branham (2021). "Berry Quality and Anthocyanin Content of 'Consort' Black Currants Grown under Artificial Shade." *Plants* 10(4): 766.
- Wolske, E. T., B. E. Branham and K. J. Wolz (2021). "Growth and productivity of 'consort' black currant grown under varying levels of artificial shade." *HortScience* 56(1): 3-7.
- Xie, L., T. Gomes, K. A. Solhaug, Y. Song and K. E. Tollefsen (2018). "Linking mode of action of the model respiratory and photosynthesis uncoupler 3,5-dichlorophenol to adverse outcomes in *Lemna minor*." *Aquat Toxicol* 197: 98-108.
- Xie, L., T. Gomes, K. A. Solhaug, Y. Song and K. E. Tollefsen (2018). "Linking mode of action of the model respiratory and photosynthesis uncoupler 3,5-dichlorophenol to adverse outcomes in *Lemna minor*." *Aquatic Toxicology* 197: 98-108.
- Xie, L., K. A. Solhaug, Y. Song, B. Johnsen, J. E. Olsen and K. E. Tollefsen (2020). "Effects of artificial ultraviolet B radiation on the macrophyte *Lemna minor*: a conceptual study for toxicity pathway characterization." *Planta* 252(5): 1-18.
- Xu, H., J. Brookes, P. Hobson and H. Pei (2019). "Impact of copper sulphate, potassium permanganate, and hydrogen peroxide on *Pseudanabaena galeata* cell integrity, release and degradation of 2-methylisoborneol." *Water Res* 157: 64-73.
- Yamaguchi, H., K. Hasegawa, K. Tada, K. Kishimoto and K. Ichimi (2021). "Importance of light status on phytoplankton biomass in the turbid Bisan Strait, Japan: results from a high-frequency sampling study." *Journal of the Marine Biological Association of the United Kingdom*: 1-7.
- Yamaguchi, H., N. Koga, K. Ichimi and K. Tada (2020). "Seasonal variations in phytoplankton productivity in a shallow cove in the eastern Seto Inland Sea, Japan." *Fisheries Science* 86(6): 1067-1078.
- Zandoná, R. R., D. Agostinetto, A. da Rosa Ulguim, R. C. Campos, A. A. M. Vargas and J. D. G. Da Silva (2020). "Emergence flow of weeds as the result of temperature and luminosity conditions in hilly areas." *Bioscience Journal* 36(6).
- Zhang, X. (2021). "Ozone in a Jack Pine Forest in the Athabasca Oil Sands Region."
- Zweng, R. C., M. S. Koch and G. Bowes (2018). "The role of irradiance and C-use strategies in tropical macroalgae photosynthetic response to ocean acidification." *Sci Rep* 8(1): 9479.
- Белевич, Т., И. Милютина, А. Троицкий and М. Флинт (2020). "Пикофитопланктон залива Благополучия (архипелаг Новая Земля) и прилегающего района Карского моря." *Океанология* 60(4): 545-555.
- Кривенко, Л., Г. Суворов, В. Авилов and А. Сирин

(2019). "Измерение потоков CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>O методом турбулентных пульсаций: использование мобильной установки и учет изменяющейся зоны охвата." *Оптика атмосферы и океана* 32(11).

安東赫, 原田正志, 岩崎泰永 and 東出忠桐 (2019). "未熟葉の摘葉処理がトマトの生育および乾物分配に及ぼす影響." *農研機構研究報告 野菜花き研究部門 = BULLETIN OF THE NARO, CROP SCIENCE*(3): 9-18.



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