Benjamin R K Runkle

List of Publications by Year
in descending order

46	1,327	331538	395590
papers	citations	21 h-index	33 g-index

57	57	57	1964
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review: biological engineering for nature-based climate solutions. Journal of Biological Engineering, 2022, 16, 7.	2.0	4
2	Detecting Intra-Field Variation in Rice Yield With Unmanned Aerial Vehicle Imagery and Deep Learning. Frontiers in Plant Science, 2022, 13, 716506.	1.7	12
3	Informing Natureâ€based Climate Solutions for the United States with the bestâ€available science. Global Change Biology, 2022, 28, 3778-3794.	4.2	28
4	Modification of a Wavelet-Based Method for Detecting Ebullitive Methane Fluxes in Eddy-Covariance Observations: Application at Two Rice Fields. Boundary-Layer Meteorology, 2022, 184, 71-111.	1.2	3
5	Cropland mapping with L-band UAVSAR and development of NISAR products. Remote Sensing of Environment, 2021, 253, 112180.	4.6	9
6	Once Upon a Time, in AmeriFlux. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006148.	1.3	5
7	An Ecosystem-Scale Flux Measurement Strategy to Assess Natural Climate Solutions. Environmental Science & Technology, 2021, 55, 3494-3504.	4.6	24
8	Rice Inundation Assessment Using Polarimetric UAVSAR Data. Earth and Space Science, 2021, 8, e2020EA001554.	1.1	8
9	Substantial hysteresis in emergent temperature sensitivity of global wetland CH4 emissions. Nature Communications, 2021, 12, 2266.	5.8	34
10	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. Global Change Biology, 2021, 27, 3582-3604.	4.2	59
11	Impacts of alternate wetting and drying and delayed flood rice irrigation on growing season evapotranspiration. Journal of Hydrology, 2021, 596, 126080.	2.3	13
12	FLUXNET-CH₄: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689.	3.7	79
13	Covariation of Airborne Biogenic Tracers (CO₂, COS, and CO) Supports Stronger Than Expected Growing Season Photosynthetic Uptake in the Southeastern US. Global Biogeochemical Cycles, 2021, 35, e2021GB006956.	1.9	7
14	Environmental sustainability assessment of rice management practices using decision support tools. Journal of Cleaner Production, 2021, 315, 128135.	4.6	8
15	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. Agricultural and Forest Meteorology, 2021, 308-309, 108528.	1.9	33
16	Socio-Technical Changes for Sustainable Rice Production: Rice Husk Amendment, Conservation Irrigation, and System Changes. Frontiers in Agronomy, 2021, 3, .	1.5	11
17	The first fine-resolution mapping of contour-levee irrigation using deep Bi-Stream convolutional neural networks. International Journal of Applied Earth Observation and Geoinformation, 2021, 105, 102631.	1.4	2
18	Simulating Soybeanâ€“Rice Rotation and Irrigation Strategies in Arkansas, USA Using APEX. Sustainability, 2020, 12, 6822.	1.6	9

#	Article	IF	Citations
19	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. Nature Climate Change, 2020, 10, 555-560.	8.1	106
20	Eddy covariance measurements of carbon dioxide and water fluxes in US mid-south cotton production. Agriculture, Ecosystems and Environment, 2020, 292, 106813.	2.5	8
21	A new free-convection form to estimate sensible heat and latent heat fluxes for unstable cases. Journal of Hydrology, 2020, 586, 124917.	2.3	3
22	Friction-Velocity Estimates Using the Trace of a Scalar and the Mean Wind Speed. Boundary-Layer Meteorology, 2020, 176, 105-123.	1.2	4
23	The biophysical climate mitigation potential of boreal peatlands during the growing season. Environmental Research Letters, 2020, 15, 104004.	2.2	31
24	Surface renewal measurements of H, Î»E and CO2 fluxes over two different agricultural systems. Agricultural and Forest Meteorology, 2019, 279, 107763.	1.9	21
25	Evaluating closed chamber evapotranspiration estimates against eddy covariance measurements in an arctic wetland. Journal of Hydrology, 2019, 578, 124030.	2.3	4
26	Automated mapping of rice fields using multi-year training sample normalization. International Journal of Remote Sensing, 2019, 40, 7252-7271.	1.3	8
27	Methane Emission Reductions from the Alternate Wetting and Drying of Rice Fields Detected Using the Eddy Covariance Method. Environmental Science & Technology, 2019, 53, 671-681.	4.6	72
28	A long-term (2002 to 2017) record of closed-path and open-path eddy covariance CO₂ net ecosystem exchange fluxes from the Siberian Arctic. Earth System Science Data, 2019, 11, 221-240.	3.7	20
29	Greenhouse Gas Emissions and Management Practices that Affect Emissions in US Rice Systems. Journal of Environmental Quality, 2018, 47, 395-409.	1.0	44
30	Variability in methane emissions from West Siberia's shallow boreal lakes on a regional scale and its environmental controls. Biogeosciences, 2017, 14, 3715-3742.	1.3	32
31	Deltaâ€Flux: An Eddy Covariance Network for a Climateâ€Smart Lower Mississippi Basin. Agricultural and Environmental Letters, 2017, 2, ael2017.01.0003.	0.8	28
32	Upscaling methane emission hotspots in boreal peatlands. Geoscientific Model Development, 2016, 9, 915-926.	1.3	12
33	Dissolved organic matter dynamics during the spring snowmelt at a boreal river valley mire complex in Northwest Russia. Hydrological Processes, 2016, 30, 1727-1741.	1.1	7
34	Sustainable Internationalization? Measuring the Diversity of Internationalization at Higher Education Institutions. World Sustainability Series, 2016, , 21-37.	0.3	0
35	Modeling micro-topographic controls on boreal peatland hydrology and methane fluxes. Biogeosciences, 2015, 12, 5689-5704.	1.3	30
36	One Metaphorâ€"Several Meanings: An Interdisciplinary Approach to Sustainable Development. World Sustainability Series, 2015, , 197-213.	0.3	0

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37	Spatial Variations in Pore-Water Biogeochemistry Greatly Exceed Temporal Changes During Baseflow Conditions in a Boreal River Valley Mire Complex, Northwest Russia. Wetlands, 2014, 34, 1171-1182.	0.7	14
38	Seasonal variability as a source of uncertainty in the West Siberian regional CH 4 flux upscaling. Environmental Research Letters, 2014, 9, 045008.	2.2	36
39	The surface energy balance and its drivers in a boreal peatland fen of northwestern Russia. Journal of Hydrology, 2014, 511, 359-373.	2.3	48
40	Application of high-resolution spectral absorbance measurements to determine dissolved organic carbon concentration in remote areas. Journal of Hydrology, 2014, 517, 435-446.	2.3	53
41	Spatial and seasonal variability of polygonal tundra water balance: Lena River Delta, northern Siberia (Russia). Hydrogeology Journal, 2013, 21, 133-147.	0.9	71
42	Bulk partitioning the growing season net ecosystem exchange of CO₂ in Siberian tundra reveals the seasonality of its carbon sequestration strength. Biogeosciences, 2013, 10, 1337-1349.	1.3	39
43	Attenuation Correction Procedures for Water Vapour Fluxes from Closed-Path Eddy-Covariance Systems. Boundary-Layer Meteorology, 2012, 142, 401-423.	1.2	25
44	Carbon dioxide exchange of a pepperweed (Lepidium latifoliumL.) infestation: How do flowering and mowing affect canopy photosynthesis and autotrophic respiration?. Journal of Geophysical Research, 2011, 116, .	3.3	20
45	Tracking the structural and functional development of a perennial pepperweed (Lepidium latifolium L.) infestation using a multi-year archive of webcam imagery and eddy covariance measurements. Agricultural and Forest Meteorology, 2011, 151, 916-926.	1.9	49
46	Greenhouse gas reduction benefits and costs of a large-scale transition to hydrogen in the USA. Energy Policy, 2009, 37, 56-67.	4.2	54