

Benjamin R K Runkle

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,327
citations

331259

21
h-index

414034

32
g-index

57
all docs

57
docs citations

57
times ranked

1964
citing authors

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

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19	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.	8.1	106
20	Eddy covariance measurements of carbon dioxide and water fluxes in US mid-south cotton production. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106813.	2.5	8
21	A new free-convection form to estimate sensible heat and latent heat fluxes for unstable cases. <i>Journal of Hydrology</i> , 2020, 586, 124917.	2.3	3
22	Friction-Velocity Estimates Using the Trace of a Scalar and the Mean Wind Speed. <i>Boundary-Layer Meteorology</i> , 2020, 176, 105-123.	1.2	4
23	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020, 15, 104004.	2.2	31
24	Surface renewal measurements of H ₂ O and CO ₂ fluxes over two different agricultural systems. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107763.	1.9	21
25	Evaluating closed chamber evapotranspiration estimates against eddy covariance measurements in an arctic wetland. <i>Journal of Hydrology</i> , 2019, 578, 124030.	2.3	4
26	Automated mapping of rice fields using multi-year training sample normalization. <i>International Journal of Remote Sensing</i> , 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. <i>Environmental Science & Technology</i> , 2019, 53, 671-681.	4.6	72
28	A long-term (2002 to 2017) record of closed-path and open-path eddy covariance CO ₂ and net ecosystem exchange fluxes from the Siberian Arctic. <i>Earth System Science Data</i> , 2019, 11, 221-240.	3.7	20
29	Greenhouse Gas Emissions and Management Practices that Affect Emissions in US Rice Systems. <i>Journal of Environmental Quality</i> , 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. <i>Biogeosciences</i> , 2017, 14, 3715-3742.	1.3	32
31	Delta ¹⁸ O-Flux: An Eddy Covariance Network for a Climate-Smart Lower Mississippi Basin. <i>Agricultural and Environmental Letters</i> , 2017, 2, ael2017.01.0003.	0.8	28
32	Upscaling methane emission hotspots in boreal peatlands. <i>Geoscientific Model Development</i> , 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. <i>Hydrological Processes</i> , 2016, 30, 1727-1741.	1.1	7
34	Sustainable Internationalization? Measuring the Diversity of Internationalization at Higher Education Institutions. <i>World Sustainability Series</i> , 2016, , 21-37.	0.3	0
35	Modeling micro-topographic controls on boreal peatland hydrology and methane fluxes. <i>Biogeosciences</i> , 2015, 12, 5689-5704.	1.3	30
36	One Metaphor—Several Meanings: An Interdisciplinary Approach to Sustainable Development. <i>World Sustainability Series</i> , 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. <i>Wetlands</i> , 2014, 34, 1171-1182.	0.7	14
38	Seasonal variability as a source of uncertainty in the West Siberian regional CH ₄ flux upscaling. <i>Environmental Research Letters</i> , 2014, 9, 045008.	2.2	36
39	The surface energy balance and its drivers in a boreal peatland fen of northwestern Russia. <i>Journal of Hydrology</i> , 2014, 511, 359-373.	2.3	48
40	Application of high-resolution spectral absorbance measurements to determine dissolved organic carbon concentration in remote areas. <i>Journal of Hydrology</i> , 2014, 517, 435-446.	2.3	53
41	Spatial and seasonal variability of polygonal tundra water balance: Lena River Delta, northern Siberia (Russia). <i>Hydrogeology Journal</i> , 2013, 21, 133-147.	0.9	71
42	Bulk partitioning the growing season net ecosystem exchange of CO ₂ in Siberian tundra reveals the seasonality of its carbon sequestration strength. <i>Biogeosciences</i> , 2013, 10, 1337-1349.	1.3	39
43	Attenuation Correction Procedures for Water Vapour Fluxes from Closed-Path Eddy-Covariance Systems. <i>Boundary-Layer Meteorology</i> , 2012, 142, 401-423.	1.2	25
44	Carbon dioxide exchange of a pepperweed (<i>Lepidium latifolium</i> L.) infestation: How do flowering and mowing affect canopy photosynthesis and autotrophic respiration?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	20
45	Tracking the structural and functional development of a perennial pepperweed (<i>Lepidium latifolium</i> L.) infestation using a multi-year archive of webcam imagery and eddy covariance measurements. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 916-926.	1.9	49
46	Greenhouse gas reduction benefits and costs of a large-scale transition to hydrogen in the USA. <i>Energy Policy</i> , 2009, 37, 56-67.	4.2	54