

Mark S Johnson

List of Publications by Year in descending order

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67
papers

2,649
citations

186265

28
h-index

197818

49
g-index

68
all docs

68
docs citations

68
times ranked

4345
citing authors

#	ARTICLE	IF	CITATIONS
1	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. <i>Water Resources Research</i> , 2020, 56, e2019WR026058.	4.2	220
2	Double-funneling of trees: Stemflow and root-induced preferential flow. <i>Ecoscience</i> , 2006, 13, 324-333.	1.4	215
3	CO ₂ efflux from Amazonian headwater streams represents a significant fate for deep soil respiration. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	198
4	Application of two hydrologic models with different runoff mechanisms to a hillslope dominated watershed in the northeastern US: a comparison of HSPF and SMR. <i>Journal of Hydrology</i> , 2003, 284, 57-76.	5.4	111
5	Direct and continuous measurement of dissolved carbon dioxide in freshwater aquatic systems—method and applications. <i>Ecohydrology</i> , 2010, 3, 68-78.	2.4	101
6	DOC and DIC in Flowpaths of Amazonian Headwater Catchments with Hydrologically Contrasting Soils. <i>Biogeochemistry</i> , 2006, 81, 45-57.	3.5	99
7	Gap-filling approaches for eddy covariance methane fluxes: A comparison of three machine learning algorithms and a traditional method with principal component analysis. <i>Global Change Biology</i> , 2020, 26, 1499-1518.	9.5	96
8	Improving agricultural water use efficiency with biochar – A synthesis of biochar effects on water storage and fluxes across scales. <i>Science of the Total Environment</i> , 2019, 657, 853-862.	8.0	94
9	Organic carbon fluxes within and streamwater exports from headwater catchments in the southern Amazon. <i>Hydrological Processes</i> , 2006, 20, 2599-2614.	2.6	89
10	Biochar decreases dissolved organic carbon but not nitrate leaching in relation to vinasse application in a Brazilian sugarcane soil. <i>Journal of Environmental Management</i> , 2015, 149, 9-16.	7.8	82
11	Application of biochar and nitrogen influences fluxes of CO ₂ , CH ₄ and N ₂ O in a forest soil. <i>Journal of Environmental Management</i> , 2017, 192, 203-214.	7.8	66
12	Water use by terrestrial ecosystems: temporal variability in rainforest and agricultural contributions to evapotranspiration in Mato Grosso, Brazil. <i>Environmental Research Letters</i> , 2012, 7, 024024.	5.2	59
13	Relationships between soil hydrology and forest structure and composition in the southern Brazilian Amazon. <i>Journal of Vegetation Science</i> , 2007, 18, 183-194.	2.2	51
14	Fluorescence index as an indicator of dissolved organic carbon quality in hydrologic flowpaths of forested tropical watersheds. <i>Biogeochemistry</i> , 2011, 105, 149-157.	3.5	50
15	Radiative forcing of methane fluxes offsets net carbon dioxide uptake for a tropical flooded forest. <i>Global Change Biology</i> , 2019, 25, 1967-1981.	9.5	50
16	A review of green- and blue-water resources and their trade-offs for future agricultural production in the Amazon Basin: what could irrigated agriculture mean for Amazonia?. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2179-2194.	4.9	44
17	Environmental footprints show China and Europe's evolving resource appropriation for soybean production in Mato Grosso, Brazil. <i>Environmental Research Letters</i> , 2014, 9, 074001.	5.2	42
18	Hyperspectral and Thermal Sensing of Stomatal Conductance, Transpiration, and Photosynthesis for Soybean and Maize under Drought. <i>Remote Sensing</i> , 2020, 12, 3182.	4.0	42

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19	Annual greenhouse gas budget for a bog ecosystem undergoing restoration by rewetting. <i>Biogeosciences</i> , 2017, 14, 2799-2814.	3.3	40
20	Groundwater recharge indicator as tool for decision makers to increase socio-hydrological resilience to seasonal drought. <i>Journal of Hydrology</i> , 2018, 563, 1119-1134.	5.4	40
21	Storm pulses of dissolved CO ₂ in a forested headwater Amazonian stream explored using hydrograph separation. <i>Water Resources Research</i> , 2007, 43, .	4.2	39
22	Litterfall production and fluvial export in headwater catchments of the southern Amazon. <i>Journal of Tropical Ecology</i> , 2007, 23, 329-335.	1.1	38
23	Land occupation and transformation impacts of soybean production in Southern Amazonia, Brazil. <i>Journal of Cleaner Production</i> , 2017, 149, 680-689.	9.3	38
24	Biochars from local agricultural waste residues contribute to soil quality and plant growth in a Cerrado region (Brazil) Arenosol. <i>GCB Bioenergy</i> , 2018, 10, 272-286.	5.6	36
25	Public Participation and Perceptions of Watershed Modeling. <i>Society and Natural Resources</i> , 2008, 22, 79-87.	1.9	35
26	Runoff sources and land cover change in the Amazon: an end-member mixing analysis from small watersheds. <i>Biogeochemistry</i> , 2011, 105, 7-18.	3.5	33
27	Spatial patterns of DOC concentration and DOM optical properties in a Brazilian tropical river-wetland system. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1883-1902.	3.0	33
28	Spatial and temporal variability of soil water repellency of Amazonian pastures. <i>Soil Research</i> , 2005, 43, 319.	1.1	32
29	Water quality and greenhouse gas fluxes for stormwater detained in a constructed wetland. <i>Journal of Environmental Management</i> , 2019, 231, 1232-1240.	7.8	32
30	Impact of Different Agricultural Waste Biochars on Maize Biomass and Soil Water Content in a Brazilian Cerrado Arenosol. <i>Agronomy</i> , 2017, 7, 49.	3.0	31
31	Soil CO ₂ Dynamics in a Tree Island Soil of the Pantanal: The Role of Soil Water Potential. <i>PLoS ONE</i> , 2013, 8, e64874.	2.5	30
32	Physiological responses to extreme hydrological events in the Pantanal wetland: heterogeneity of a plant community containing superdominant species. <i>Journal of Vegetation Science</i> , 2016, 27, 568-577.	2.2	30
33	Biochar from Sugarcane Filtercake Reduces Soil CO ₂ Emissions Relative to Raw Residue and Improves Water Retention and Nutrient Availability in a Highly-Weathered Tropical Soil. <i>PLoS ONE</i> , 2014, 9, e98523.	2.5	29
34	Evaluating Water Use for Agricultural Intensification in Southern Amazonia Using the Water Footprint Sustainability Assessment. <i>Water (Switzerland)</i> , 2018, 10, 349.	2.7	27
35	Developing a Hydrologic Monitoring Network in Data-Scarce Regions Using Open-Source Arduino Dataloggers. <i>Agricultural and Environmental Letters</i> , 2016, 1, 160011.	1.2	25
36	The role of rivers in the regional carbon balance. <i>Geophysical Monograph Series</i> , 2009, , 489-504.	0.1	24

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37	Biochar feedstock and pyrolysis temperature effects on leachate: DOC characteristics and nitrate losses from a Brazilian Cerrado Arenosol mixed with agricultural waste biochars. <i>Journal of Environmental Management</i> , 2018, 211, 256-268.	7.8	24
38	Submersible UV-Vis Spectroscopy for Quantifying Streamwater Organic Carbon Dynamics: Implementation and Challenges before and after Forest Harvest in a Headwater Stream. <i>Sensors</i> , 2012, 12, 3798-3813.	3.8	22
39	Land Use in LCA: Including Regionally Altered Precipitation to Quantify Ecosystem Damage. <i>Environmental Science & Technology</i> , 2016, 50, 11769-11778.	10.0	22
40	Rain-fed and irrigated cropland-atmosphere water fluxes and their implications for agricultural production in Southern Amazonia. <i>Agricultural and Forest Meteorology</i> , 2018, 256-257, 407-419.	4.8	22
41	Gas Transfer Velocities Evaluated Using Carbon Dioxide as a Tracer Show High Streamflow to Be a Major Driver of Total CO ₂ Evasion Flux for a Headwater Stream. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2183-2197.	3.0	22
42	Net Ecosystem Carbon Balance of a Peat Bog Undergoing Restoration: Integrating CO ₂ and CH ₄ Fluxes From Eddy Covariance and Aquatic Evasion With DOC Drainage Fluxes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 884-901.	3.0	21
43	Carbon biogeochemistry of a flooded Pantanal forest over three annual flood cycles. <i>Biogeochemistry</i> , 2018, 139, 1-18.	3.5	19
44	Biochar influences on soil CO ₂ and CH ₄ fluxes in response to wetting and drying cycles for a forest soil. <i>Scientific Reports</i> , 2017, 7, 6780.	3.3	18
45	Soil CO ₂ concentrations and efflux dynamics of a tree island in the Pantanal wetland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2154-2169.	3.0	14
46	A contribution to harmonize water footprint assessments. <i>Global Environmental Change</i> , 2018, 53, 252-264.	7.8	12
47	Determining the Stability of Sugarcane Filtercake Biochar in Soils with Contrasting Levels of Organic Matter. <i>Agriculture (Switzerland)</i> , 2018, 8, 71.	3.1	11
48	Streams with Riparian Forest Buffers versus Impoundments Differ in Discharge and DOM Characteristics for Pasture Catchments in Southern Amazonia. <i>Water (Switzerland)</i> , 2019, 11, 390.	2.7	11
49	Changing Water Resources Under El Niño, Climate Change, and Growing Water Demands in Seasonally Dry Tropical Watersheds. <i>Water Resources Research</i> , 2021, 57, e2020WR028535.	4.2	11
50	Variabilidade espacial de atributos físicos de solo usada na identificação de classes pedológicas de microbacias na Amazônia meridional. <i>Revista Brasileira De Ciencia Do Solo</i> , 2007, 31, 91-100.	1.3	11
51	Land "Water interactions in the amazon. <i>Biogeochemistry</i> , 2011, 105, 1-5.	3.5	10
52	Ecohydrological responses to rewetting of a highly impacted raised bog ecosystem. <i>Ecohydrology</i> , 2018, 11, e1922.	2.4	10
53	Drone-Based Hyperspectral and Thermal Imagery for Quantifying Upland Rice Productivity and Water Use Efficiency after Biochar Application. <i>Remote Sensing</i> , 2021, 13, 1866.	4.0	10
54	Distribuição espacial de carbono em solo sob floresta primária na Amazônia meridional. <i>Revista Arvore</i> , 2007, 31, 83-92.	0.5	10

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55	Discharge of calcium concentration relationships in streams of the Amazon and Cerrado of Brazil: soil or land use controlled. <i>Biogeochemistry</i> , 2011, 105, 19-35.	3.5	9
56	Cattle production in Southern Amazonia: implications for land and water management. <i>Environmental Research Letters</i> , 2019, 14, 114025.	5.2	9
57	High-frequency analysis of dissolved organic carbon storm responses in headwater streams of contrasting forest harvest history. <i>Journal of Hydrology</i> , 2020, 590, 125371.	5.4	9
58	Indicativos de descontinuidade litológica de regolitos derivados de granitos em uma microbacia sob floresta Amazônica, em Juruena - MT. <i>Revista Brasileira De Ciencia Do Solo</i> , 2012, 36, 317-324.	1.3	7
59	Distribuição espacial da granulometria, cor e carbono orgânico do solo ao longo de um transecto em microbacias na Amazônia meridional. <i>Acta Amazonica</i> , 2008, 38, 715-722.	0.7	6
60	Complementarity in mid-point impacts for water use in life cycle assessment applied to cropland and cattle production in Southern Amazonia. <i>Journal of Cleaner Production</i> , 2019, 219, 497-507.	9.3	6
61	Ecohydrology and Biogeochemistry of the Rhizosphere in Forested Ecosystems. <i>Ecological Studies</i> , 2011, , 483-498.	1.2	6
62	Relative humidity gradients as a key constraint on terrestrial water and energy fluxes. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5175-5191.	4.9	4
63	Surface waters in Amazonia: Key findings and perspectives. <i>Geophysical Monograph Series</i> , 2009, , 485-488.	0.1	3
64	Simultaneous Measurements of Soil CO ₂ and CH ₄ Fluxes Using Laser Absorption Spectroscopy. <i>Agricultural and Environmental Letters</i> , 2016, 1, 150014.	1.2	3
65	On the Potential of Biochar Soil Amendments as a Sustainable Water Management Strategy. <i>Sustainability</i> , 2022, 14, 7026.	3.2	3
66	Carbon exchange in rainfed and irrigated cropland in the Brazilian Cerrado. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108881.	4.8	2
67	Correction to "Ecohydrological responses to rewetting of a highly impacted raised bog ecosystem". <i>Ecohydrology</i> , 2019, 12, e2034.	2.4	0