## James Jawitz

List of Publications by Year in descending order

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		109137	123241
110	4,338	35	61
papers	citations	h-index	g-index
122	122	122	3952
122	122	122	
all docs	docs citations	times ranked	citing authors

LAMES LAWITZ

#	Article	IF	CITATIONS
1	Nutrient loads exported from managed catchments reveal emergent biogeochemical stationarity. Geophysical Research Letters, 2010, 37, .	1.5	338
2	Do geographically isolated wetlands influence landscape functions?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1978-1986.	3.3	297
3	Wetlands as large-scale nature-based solutions: Status and challenges for research, engineering and management. Ecological Engineering, 2017, 108, 489-497.	1.6	217
4	Enhancing protection for vulnerable waters. Nature Geoscience, 2017, 10, 809-815.	5.4	141
5	Field Implementation of a Winsor Type I Surfactant/Alcohol Mixture for in Situ Solubilization of a Complex LNAPL as a Single-Phase Microemulsion. Environmental Science & Technology, 1998, 32, 523-530.	4.6	125
6	Emergent archetype patterns of coupled hydrologic and biogeochemical responses in catchments. Geophysical Research Letters, 2017, 44, 4143-4151.	1.5	117
7	In-Situ Alcohol Flushing of a DNAPL Source Zone at a Dry Cleaner Site. Environmental Science & Technology, 2000, 34, 3722-3729.	4.6	116
8	DNAPL source depletion: Linking architecture and flux response. Journal of Contaminant Hydrology, 2006, 85, 118-140.	1.6	115
9	Groundwater contaminant flux reduction resulting from nonaqueous phase liquid mass reduction. Water Resources Research, 2005, 41, .	1.7	99
10	Moments of truncated continuous univariate distributions. Advances in Water Resources, 2004, 27, 269-281.	1.7	95
11	Water availability and vulnerability of 225 large cities in the United States. Water Resources Research, 2012, 48, .	1.7	93
12	Comment on "Steady state mass transfer from single-component dense nonaqueous phase liquids in uniform flow fields―by T. C. Sale and D. B. McWhorter. Water Resources Research, 2003, 39, .	1.7	78
13	The evolution of human population distance to water in the USA from 1790 to 2010. Nature Communications, 2019, 10, 430.	5.8	78
14	Priorities and Interactions of Sustainable Development Goals (SDGs) with Focus on Wetlands. Water (Switzerland), 2019, 11, 619.	1.2	75
15	Temporal inequality in catchment discharge and solute export. Water Resources Research, 2011, 47, .	1.7	72
16	Landscape filtering of hydrologic and biogeochemical responses in managed catchments. Landscape Ecology, 2013, 28, 651-664.	1.9	65
17	River network connectivity and fish diversity. Science of the Total Environment, 2019, 689, 21-30.	3.9	64
18	Controlled release, blind test of DNAPL remediation by ethanol flushing. Journal of Contaminant Hydrology, 2004, 69, 281-297.	1.6	63

#	Article	lF	CITATIONS
19	Carbon and nutrient export regimes from headwater catchments to downstream reaches. Biogeosciences, 2017, 14, 4391-4407.	1.3	63
20	Disparities in publication patterns by gender, race and ethnicity based on a survey of a random sample of authors. Scientometrics, 2013, 96, 515-534.	1.6	60
21	Field Evaluation of Interfacial and Partitioning Tracers for Characterization of Effective NAPL-Water Contact Areas. Ground Water, 1998, 36, 495-502.	0.7	58
22	Miscible fluid displacement stability in unconfined porous media:. Journal of Contaminant Hydrology, 1998, 31, 211-230.	1.6	58
23	Back Diffusion from Thin Low Permeability Zones. Environmental Science & Technology, 2015, 49, 415-422.	4.6	57
24	Evaluation of simplified mass transfer models to simulate the impacts of source zone architecture on nonaqueous phase liquid dissolution in heterogeneous porous media. Journal of Contaminant Hydrology, 2008, 102, 49-60.	1.6	52
25	Controlled release, blind tests of DNAPL characterization using partitioning tracers. Journal of Contaminant Hydrology, 2002, 59, 187-210.	1.6	51
26	Predicting author h-index using characteristics of the co-author network. Scientometrics, 2013, 96, 467-483.	1.6	49
27	Globally Universal Fractal Pattern of Human Settlements in River Networks. Earth's Future, 2018, 6, 1134-1145.	2.4	49
28	Temporal evolution of DNAPL source and contaminant flux distribution: Impacts of source mass depletion. Journal of Contaminant Hydrology, 2008, 95, 93-109.	1.6	48
29	Does increased model complexity improve description of phosphorus dynamics in a large treatment wetland?. Ecological Engineering, 2012, 42, 283-294.	1.6	48
30	High-resolution reconstruction of the United States human population distribution, 1790 to 2010. Scientific Data, 2018, 5, 180067.	2.4	42
31	Strong hydroclimatic controls on vulnerability to subsurface nitrate contamination across Europe. Nature Communications, 2020, 11, 6302.	5.8	40
32	Estimating nonaqueous phase liquid spatial variability using partitioning tracer higher temporal moments. Water Resources Research, 2003, 39, .	1.7	39
33	Hydraulic analysis of cell-network treatment wetlands. Journal of Hydrology, 2006, 330, 721-734.	2.3	39
34	Laboratory investigation of flux reduction from dense non-aqueous phase liquid (DNAPL) partial source zone remediation by enhanced dissolution. Journal of Contaminant Hydrology, 2008, 102, 17-28.	1.6	39
35	Analytical expressions for drainable and fillable porosity of phreatic aquifers under vertical fluxes from evapotranspiration and recharge. Water Resources Research, 2012, 48, .	1.7	39
36	Stochastic modeling of hydrologic variability of geographically isolated wetlands: Effects of hydro-climatic forcing and wetland bathymetry. Advances in Water Resources, 2014, 69, 38-48.	1.7	38

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37	Remediation of NAPL Source Zones: Lessons Learned from Field Studies at Hill and Dover AFB. Ground Water, 2011, 49, 727-744.	0.7	36
38	Phosphorus storages in historically isolated wetland ecosystems and surrounding pasture uplands. Ecological Engineering, 2007, 31, 16-28.	1.6	35
39	Rejuvenating the largest municipal treatment wetland in Florida. Ecological Engineering, 2006, 26, 132-146.	1.6	34
40	Effects of Hydroclimatic Change and Rehabilitation Activities on Salinity and Mangroves in the Ciénaga Grande de Santa Marta, Colombia. Wetlands, 2018, 38, 755-767.	0.7	34
41	Solute source depletion control of forward and back diffusion through low-permeability zones. Journal of Contaminant Hydrology, 2016, 193, 54-62.	1.6	33
42	Overcoming Urban Water Insecurity with Infrastructure and Institutions. Water Resources Management, 2016, 30, 4913-4926.	1.9	32
43	Simplified contaminant source depletion models as analogs of multiphase simulators. Journal of Contaminant Hydrology, 2008, 97, 87-99.	1.6	29
44	Wetland-Groundwater Interactions in Subtropical Depressional Wetlands. Wetlands, 2010, 30, 997-1006.	0.7	27
45	Management scenario evaluation for a large treatment wetland using a spatio-temporal phosphorus transport and cycling model. Ecological Engineering, 2010, 36, 1627-1638.	1.6	27
46	Orientation matters: Patch anisotropy controls discharge competence and hydroperiod in a patterned peatland. Geophysical Research Letters, 2012, 39, .	1.5	27
47	Predicting dense nonaqueous phase liquid dissolution using a simplified source depletion model parameterized with partitioning tracers. Water Resources Research, 2008, 44, .	1.7	26
48	Field-scale forward and back diffusion through low-permeability zones. Journal of Contaminant Hydrology, 2017, 202, 47-58.	1.6	26
49	Solute evidence for hydrological connectivity of geographically isolated wetlands. Land Degradation and Development, 2018, 29, 3954-3962.	1.8	26
50	Rate-Limited Solubilization of Multicomponent Nonaqueous-Phase Liquids by Flushing with Cosolvents and Surfactants:  Modeling Data from Laboratory and Field Experiments. Environmental Science & Technology, 2003, 37, 1983-1991.	4.6	25
51	Soil Phosphorus Release and Storage Capacity from an Impacted Subtropical Wetland. Soil Science Society of America Journal, 2010, 74, 1816-1825.	1.2	25
52	Resilience Dynamics of Urban Water Supply Security and Potential of Tipping Points. Earth's Future, 2019, 7, 1167-1191.	2.4	25
53	Convergence of DNAPL Source Strength Functions with Site Age. Environmental Science & amp; Technology, 2009, 43, 9374-9379.	4.6	24
54	Seasonal dynamics of terrestrially sourced nitrogen influenced Karenia brevis blooms off Florida's southern Gulf Coast. Harmful Algae, 2020, 98, 101900.	2.2	24

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55	Spatially distributed modeling of surface water flow dynamics in the Everglades ridge and slough landscape. Journal of Hydrology, 2010, 390, 1-12.	2.3	23
56	Light reflection visualization to determine solute diffusion into clays. Journal of Contaminant Hydrology, 2014, 161, 1-9.	1.6	23
57	Spatial patterns of water quality impairments from point source nutrient loads in Germany's largest national River Basin (Weser River). Science of the Total Environment, 2019, 697, 134145.	3.9	23
58	Balancing security, resilience, and sustainability of urban water supply systems in a desirable operating space. Environmental Research Letters, 2020, 15, 035007.	2.2	23
59	Uranium and cesium accumulation in bean (Phaseolus vulgaris L. var. vulgaris) and its potential for uranium rhizofiltration. Journal of Environmental Radioactivity, 2015, 140, 42-49.	0.9	22
60	Effects of hydraulic resistance by vegetation on stage dynamics of a stormwater treatment wetland. Journal of Hydrology, 2013, 484, 74-85.	2.3	21
61	Stochastic modeling of wetland-groundwater systems. Advances in Water Resources, 2018, 112, 214-223.	1.7	20
62	Spatial Organization of Human Population and Wastewater Treatment Plants in Urbanized River Basins. Water Resources Research, 2019, 55, 6138-6152.	1.7	19
63	Multi-decadal trajectories of phosphorus loading, export, and instream retention along a catchment gradient. Science of the Total Environment, 2019, 667, 769-779.	3.9	19
64	Reactive Tracer Tests To Predict Dense Nonaqueous Phase Liquid Dissolution Dynamics in Laboratory Flow Chambers. Environmental Science & Technology, 2008, 42, 5285-5291.	4.6	18
65	Wetlandscape Fractal Topography. Geophysical Research Letters, 2018, 45, 6983-6991.	1.5	18
66	Mechanistic Biogeochemical Model Applications for Everglades Restoration: A Review of Case Studies and Suggestions for Future Modeling Needs. Critical Reviews in Environmental Science and Technology, 2011, 41, 489-516.	6.6	17
67	Forward and back diffusion through argillaceous formations. Water Resources Research, 2017, 53, 4514-4523.	1.7	17
68	Stochastic dynamics of wetlandscapes: Ecohydrological implications of shifts in hydro-climatic forcing and landscape configuration. Science of the Total Environment, 2019, 694, 133765.	3.9	17
69	Hyphenated hydrology: Interdisciplinary evolution of water resource science. Water Resources Research, 2017, 53, 2972-2982.	1.7	16
70	The evolution of urban water systems: societal needs, institutional complexities, and resource costs. Urban Water Journal, 2019, 16, 92-102.	1.0	16
71	Modeling two-dimensional reactive transport using a Godunov-mixed finite element method. Journal of Hydrology, 2007, 338, 28-41.	2.3	15
72	Characterizing deep soils from an impacted subtropical isolated wetland: implications for phosphorus storage. Journal of Soils and Sediments, 2010, 10, 514-525.	1.5	15

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73	Phosphorus Mass Balance and Internal Load in an Impacted Subtropical Isolated Wetland. Water, Air, and Soil Pollution, 2011, 218, 619-632.	1.1	15
74	Coupled local facilitation and global hydrologic inhibition drive landscape geometry in a patterned peatland. Hydrology and Earth System Sciences, 2015, 19, 2133-2144.	1.9	15
75	Why wastewater treatment fails to protect stream ecosystems in Europe. Water Research, 2022, 217, 118382.	5.3	15
76	Hydrologic controls on aperiodic spatial organization of the ridge–slough patterned landscape. Hydrology and Earth System Sciences, 2016, 20, 4457-4467.	1.9	14
77	Channel Filtering Generates Multifractal Solute Signals. Geophysical Research Letters, 2018, 45, 11,722.	1.5	14
78	Karst conduit contribution to spring discharge and aquifer cross-sectional area. Journal of Hydrology, 2019, 578, 124037.	2.3	14
79	Wetlandscape hydrologic dynamics driven by shallow groundwater and landscape topography. Hydrological Processes, 2020, 34, 1460-1474.	1.1	14
80	Theoretical and empirical evidence against the Budyko catchment trajectory conjecture. Hydrology and Earth System Sciences, 2022, 26, 1507-1525.	1.9	13
81	INLINE GAS CHROMATOGRAPHIC TRACER ANALYSIS: AN ALTERNATIVE TO CONVENTIONAL SAMPLING AND LABORATORY ANALYSIS FOR PARTITIONING TRACER TESTS. Instrumentation Science and Technology, 2002, 30, 415-426.	0.9	12
82	Passive Flux Meter Measurement of Water and Nutrient Flux in Saturated Porous Media: Bench cale Laboratory Tests. Journal of Environmental Quality, 2007, 36, 1266-1272.	1.0	12
83	Locally-calibrated light transmission visualization methods to quantify nonaqueous phase liquid mass in porous media. Journal of Contaminant Hydrology, 2008, 102, 29-38.	1.6	12
84	Enhanced aqueous dissolution of a DNAPL source to characterize the source strength function. Journal of Contaminant Hydrology, 2014, 169, 75-89.	1.6	12
85	Diffusion of solutes from depleting sources into and out of finite low-permeability zones. Journal of Contaminant Hydrology, 2019, 221, 127-134.	1.6	12
86	Ecological status of river networks: stream order-dependent impacts of agricultural and urban pressures across ecoregions. Environmental Research Letters, 2020, 15, 1040b3.	2.2	12
87	Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open Science, 2021, 8, 201309.	1.1	11
88	Fluid and Porous Media Property Effects on Dense Nonaqueous Phase Liquid Migration and Contaminant Mass Flux. Environmental Science & Technology, 2007, 41, 1622-1627.	4.6	9
89	Nonlinear Dynamics in Treatment Wetlands: Identifying Systematic Drivers of Nonequilibrium Outlet Concentrations in Everglades STAs. Water Resources Research, 2019, 55, 11101-11120.	1.7	9
90	Local Storage Dynamics of Individual Wetlands Predict Wetlandscape Discharge. Water Resources Research, 2020, 56, e2020WR027581.	1.7	9

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91	Persistence of amphibian metapopulation occupancy in dynamic wetlandscapes. Landscape Ecology, 2022, 37, 695-711.	1.9	9
92	Attitudes about publishing and normal science advancement. Journal of Informetrics, 2013, 7, 850-858.	1.4	8
93	Identity and publication in non-university settings: academic co-authorship and collaboration. Scientometrics, 2017, 111, 401-416.	1.6	8
94	Network Topology and Rainfall Controls on the Variability of Combined Sewer Overflows and Loads. Water Resources Research, 2019, 55, 9578-9591.	1.7	8
95	Decadal scale recharge-discharge time lags from aquifer freshwater-saltwater interactions. Journal of Hydrology, 2020, 582, 124514.	2.3	8
96	Disaggregating Landscapeâ€6cale Nitrogen Attenuation Along Hydrological Flow Paths. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005229.	1.3	8
97	Drivers of multi-decadal nitrate regime shifts in a large European catchment. Environmental Research Letters, 2022, 17, 064039.	2.2	8
98	Field-scale prediction of enhanced DNAPL dissolution based on partitioning tracers. Journal of Contaminant Hydrology, 2013, 152, 147-158.	1.6	7
99	Doing ecohydrology backward: Inferring wetland flow and hydroperiod from landscape patterns. Water Resources Research, 2017, 53, 5742-5755.	1.7	7
100	The nexus of inhabitants and impervious surfaces at city scale — wastewater and stormwater travel time distributions and an approach to calibrate diurnal variations. Urban Water Journal, 2018, 15, 576-583.	1.0	7
101	Emergent dispersal networks in dynamic wetlandscapes. Scientific Reports, 2020, 10, 14696.	1.6	6
102	Initial Test Results for a Passive Surface Water Fluxmeter to Measure Cumulative Water and Solute Mass Fluxes. Environmental Science & Technology, 2007, 41, 2485-2490.	4.6	5
103	In Situ Measurement of Nitrate Flux and Attenuation Using a Soil Passive Flux Meter. Journal of Environmental Quality, 2019, 48, 709-716.	1.0	5
104	Effect of Passive Surface Water Flux Meter Design on Water and Solute Mass Flux Estimates. Journal of Hydrologic Engineering - ASCE, 2009, 14, 1334-1342.	0.8	4
105	Spatially Distributed Hydrodynamic Modeling of Phosphorus Transport and Transformation in a Cell-Network Treatment Wetland. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	4
106	In-Situ Solubilization by Cosolvent and Surfactant—Cosolvent Mixtures. ACS Symposium Series, 1999, , 86-101.	0.5	3
107	Coherence of global hydroclimate classification systems. Hydrology and Earth System Sciences, 2021, 25, 6173-6183.	1.9	3
108	Wetland Water Budgets. Soil Science Society of America Book Series, 2015, , 919-935.	0.3	1

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109	Flux-Based Site Assessment and Management. , 2014, , 187-218.		1
110	GQ13 "Managing groundwater quality to support competing human and ecological needs― Journal of Contaminant Hydrology, 2014, 169, 1-3.	1.6	0