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
100	100	100	0050
122	122	122	3952
all docs	docs citations	times ranked	citing authors

LAMES LAWITZ

#	Article	IF	CITATIONS
1	Persistence of amphibian metapopulation occupancy in dynamic wetlandscapes. Landscape Ecology, 2022, 37, 695-711.	1.9	9
2	Theoretical and empirical evidence against the Budyko catchment trajectory conjecture. Hydrology and Earth System Sciences, 2022, 26, 1507-1525.	1.9	13
3	Why wastewater treatment fails to protect stream ecosystems in Europe. Water Research, 2022, 217, 118382.	5.3	15
4	Drivers of multi-decadal nitrate regime shifts in a large European catchment. Environmental Research Letters, 2022, 17, 064039.	2.2	8
5	Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open Science, 2021, 8, 201309.	1.1	11
6	Coherence of global hydroclimate classification systems. Hydrology and Earth System Sciences, 2021, 25, 6173-6183.	1.9	3
7	Decadal scale recharge-discharge time lags from aquifer freshwater-saltwater interactions. Journal of Hydrology, 2020, 582, 124514.	2.3	8
8	Local Storage Dynamics of Individual Wetlands Predict Wetlandscape Discharge. Water Resources Research, 2020, 56, e2020WR027581.	1.7	9
9	Emergent dispersal networks in dynamic wetlandscapes. Scientific Reports, 2020, 10, 14696.	1.6	6
10	Strong hydroclimatic controls on vulnerability to subsurface nitrate contamination across Europe. Nature Communications, 2020, 11, 6302.	5.8	40
11	Seasonal dynamics of terrestrially sourced nitrogen influenced Karenia brevis blooms off Florida's southern Gulf Coast. Harmful Algae, 2020, 98, 101900.	2.2	24
12	Balancing security, resilience, and sustainability of urban water supply systems in a desirable operating space. Environmental Research Letters, 2020, 15, 035007.	2.2	23
13	Disaggregating Landscape cale Nitrogen Attenuation Along Hydrological Flow Paths. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005229.	1.3	8
14	Wetlandscape hydrologic dynamics driven by shallow groundwater and landscape topography. Hydrological Processes, 2020, 34, 1460-1474.	1.1	14
15	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
16	The evolution of urban water systems: societal needs, institutional complexities, and resource costs. Urban Water Journal, 2019, 16, 92-102.	1.0	16
17	Spatial Organization of Human Population and Wastewater Treatment Plants in Urbanized River Basins. Water Resources Research, 2019, 55, 6138-6152.	1.7	19
18	River network connectivity and fish diversity. Science of the Total Environment, 2019, 689, 21-30.	3.9	64

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19	Resilience Dynamics of Urban Water Supply Security and Potential of Tipping Points. Earth's Future, 2019, 7, 1167-1191.	2.4	25
20	Network Topology and Rainfall Controls on the Variability of Combined Sewer Overflows and Loads. Water Resources Research, 2019, 55, 9578-9591.	1.7	8
21	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
22	Karst conduit contribution to spring discharge and aquifer cross-sectional area. Journal of Hydrology, 2019, 578, 124037.	2.3	14
23	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
24	The evolution of human population distance to water in the USA from 1790 to 2010. Nature Communications, 2019, 10, 430.	5.8	78
25	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
26	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
27	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
28	Priorities and Interactions of Sustainable Development Goals (SDGs) with Focus on Wetlands. Water (Switzerland), 2019, 11, 619.	1.2	75
29	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
30	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
31	Stochastic modeling of wetland-groundwater systems. Advances in Water Resources, 2018, 112, 214-223.	1.7	20
32	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
33	Channel Filtering Generates Multifractal Solute Signals. Geophysical Research Letters, 2018, 45, 11,722.	1.5	14
34	Solute evidence for hydrological connectivity of geographically isolated wetlands. Land Degradation and Development, 2018, 29, 3954-3962.	1.8	26
35	High-resolution reconstruction of the United States human population distribution, 1790 to 2010. Scientific Data, 2018, 5, 180067.	2.4	42
36	Globally Universal Fractal Pattern of Human Settlements in River Networks. Earth's Future, 2018, 6, 1134-1145.	2.4	49

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37	Wetlandscape Fractal Topography. Geophysical Research Letters, 2018, 45, 6983-6991.	1.5	18
38	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
39	Identity and publication in non-university settings: academic co-authorship and collaboration. Scientometrics, 2017, 111, 401-416.	1.6	8
40	Emergent archetype patterns of coupled hydrologic and biogeochemical responses in catchments. Geophysical Research Letters, 2017, 44, 4143-4151.	1.5	117
41	Field-scale forward and back diffusion through low-permeability zones. Journal of Contaminant Hydrology, 2017, 202, 47-58.	1.6	26
42	Hyphenated hydrology: Interdisciplinary evolution of water resource science. Water Resources Research, 2017, 53, 2972-2982.	1.7	16
43	Enhancing protection for vulnerable waters. Nature Geoscience, 2017, 10, 809-815.	5.4	141
44	Forward and back diffusion through argillaceous formations. Water Resources Research, 2017, 53, 4514-4523.	1.7	17
45	Wetlands as large-scale nature-based solutions: Status and challenges for research, engineering and management. Ecological Engineering, 2017, 108, 489-497.	1.6	217
46	Doing ecohydrology backward: Inferring wetland flow and hydroperiod from landscape patterns. Water Resources Research, 2017, 53, 5742-5755.	1.7	7
47	Carbon and nutrient export regimes from headwater catchments to downstream reaches. Biogeosciences, 2017, 14, 4391-4407.	1.3	63
48	Hydrologic controls on aperiodic spatial organization of the ridge–slough patterned landscape. Hydrology and Earth System Sciences, 2016, 20, 4457-4467.	1.9	14
49	Solute source depletion control of forward and back diffusion through low-permeability zones. Journal of Contaminant Hydrology, 2016, 193, 54-62.	1.6	33
50	Overcoming Urban Water Insecurity with Infrastructure and Institutions. Water Resources Management, 2016, 30, 4913-4926.	1.9	32
51	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
52	Wetland Water Budgets. Soil Science Society of America Book Series, 2015, , 919-935.	0.3	1
53	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
54	Back Diffusion from Thin Low Permeability Zones. Environmental Science & Technology, 2015, 49, 415-422.	4.6	57

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55	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
56	GQ13 "Managing groundwater quality to support competing human and ecological needs― Journal of Contaminant Hydrology, 2014, 169, 1-3.	1.6	0
57	Enhanced aqueous dissolution of a DNAPL source to characterize the source strength function. Journal of Contaminant Hydrology, 2014, 169, 75-89.	1.6	12
58	Light reflection visualization to determine solute diffusion into clays. Journal of Contaminant Hydrology, 2014, 161, 1-9.	1.6	23
59	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
60	Flux-Based Site Assessment and Management. , 2014, , 187-218.		1
61	Attitudes about publishing and normal science advancement. Journal of Informetrics, 2013, 7, 850-858.	1.4	8
62	Predicting author h-index using characteristics of the co-author network. Scientometrics, 2013, 96, 467-483.	1.6	49
63	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
64	Effects of hydraulic resistance by vegetation on stage dynamics of a stormwater treatment wetland. Journal of Hydrology, 2013, 484, 74-85.	2.3	21
65	Field-scale prediction of enhanced DNAPL dissolution based on partitioning tracers. Journal of Contaminant Hydrology, 2013, 152, 147-158.	1.6	7
66	Landscape filtering of hydrologic and biogeochemical responses in managed catchments. Landscape Ecology, 2013, 28, 651-664.	1.9	65
67	Does increased model complexity improve description of phosphorus dynamics in a large treatment wetland?. Ecological Engineering, 2012, 42, 283-294.	1.6	48
68	Orientation matters: Patch anisotropy controls discharge competence and hydroperiod in a patterned peatland. Geophysical Research Letters, 2012, 39, .	1.5	27
69	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
70	Water availability and vulnerability of 225 large cities in the United States. Water Resources Research, 2012, 48, .	1.7	93
71	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
72	Temporal inequality in catchment discharge and solute export. Water Resources Research, 2011, 47, .	1.7	72

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73	Remediation of NAPL Source Zones: Lessons Learned from Field Studies at Hill and Dover AFB. Ground Water, 2011, 49, 727-744.	0.7	36
74	Phosphorus Mass Balance and Internal Load in an Impacted Subtropical Isolated Wetland. Water, Air, and Soil Pollution, 2011, 218, 619-632.	1.1	15
75	Wetland-Groundwater Interactions in Subtropical Depressional Wetlands. Wetlands, 2010, 30, 997-1006.	0.7	27
76	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
77	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
78	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
79	Soil Phosphorus Release and Storage Capacity from an Impacted Subtropical Wetland. Soil Science Society of America Journal, 2010, 74, 1816-1825.	1.2	25
80	Nutrient loads exported from managed catchments reveal emergent biogeochemical stationarity. Geophysical Research Letters, 2010, 37, .	1.5	338
81	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
82	Convergence of DNAPL Source Strength Functions with Site Age. Environmental Science & Technology, 2009, 43, 9374-9379.	4.6	24
83	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
84	Simplified contaminant source depletion models as analogs of multiphase simulators. Journal of Contaminant Hydrology, 2008, 97, 87-99.	1.6	29
85	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
86	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
87	Predicting dense nonaqueous phase liquid dissolution using a simplified source depletion model parameterized with partitioning tracers. Water Resources Research, 2008, 44, .	1.7	26
88	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
89	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
90	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

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91	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
92	Modeling two-dimensional reactive transport using a Godunov-mixed finite element method. Journal of Hydrology, 2007, 338, 28-41.	2.3	15
93	Passive Flux Meter Measurement of Water and Nutrient Flux in Saturated Porous Media: Benchâ€Scale Laboratory Tests. Journal of Environmental Quality, 2007, 36, 1266-1272.	1.0	12
94	Phosphorus storages in historically isolated wetland ecosystems and surrounding pasture uplands. Ecological Engineering, 2007, 31, 16-28.	1.6	35
95	Hydraulic analysis of cell-network treatment wetlands. Journal of Hydrology, 2006, 330, 721-734.	2.3	39
96	Rejuvenating the largest municipal treatment wetland in Florida. Ecological Engineering, 2006, 26, 132-146.	1.6	34
97	DNAPL source depletion: Linking architecture and flux response. Journal of Contaminant Hydrology, 2006, 85, 118-140.	1.6	115
98	Groundwater contaminant flux reduction resulting from nonaqueous phase liquid mass reduction. Water Resources Research, 2005, 41, .	1.7	99
99	Controlled release, blind test of DNAPL remediation by ethanol flushing. Journal of Contaminant Hydrology, 2004, 69, 281-297.	1.6	63
100	Moments of truncated continuous univariate distributions. Advances in Water Resources, 2004, 27, 269-281.	1.7	95
101	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
102	Estimating nonaqueous phase liquid spatial variability using partitioning tracer higher temporal moments. Water Resources Research, 2003, 39, .	1.7	39
103	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
104	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
105	Controlled release, blind tests of DNAPL characterization using partitioning tracers. Journal of Contaminant Hydrology, 2002, 59, 187-210.	1.6	51
106	In-Situ Alcohol Flushing of a DNAPL Source Zone at a Dry Cleaner Site. Environmental Science & Technology, 2000, 34, 3722-3729.	4.6	116
107	In-Situ Solubilization by Cosolvent and Surfactant—Cosolvent Mixtures. ACS Symposium Series, 1999, , 86-101.	0.5	3
108	Field Evaluation of Interfacial and Partitioning Tracers for Characterization of Effective NAPL-Water Contact Areas. Ground Water, 1998, 36, 495-502.	0.7	58

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109	Miscible fluid displacement stability in unconfined porous media:. Journal of Contaminant Hydrology, 1998, 31, 211-230.	1.6	58
110	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