Clifford N Dahm

List of Publications by Year
in descending order

93 papers	9,358 citations	71102 41 h-index	66911 78 g-index
93 all docs	93 docs citations	93 times ranked	8897 citing authors

#	Article	IF	Citations
1	Stream denitrification across biomes and its response to anthropogenic nitrate loading. Nature, 2008, 452, 202-205.	27.8	1,097
2	WATER IN A CHANGING WORLD. , 2001, 11, 1027-1045.		709
3	Nitrous oxide emission from denitrification in stream and river networks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 214-219.	7.1	517
4	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER. , 2002, 12, 1247-1260.		448
5	Ecohydrology of water-limited environments: A scientific vision. Water Resources Research, 2006, 42, .	4.2	397
6	Parent lithology, surface-groundwater exchange, and nitrate retention in headwater streams. Limnology and Oceanography, 1996, 41, 333-345.	3.1	375
7	Seasonal variation in surfaceâ€subsurface water exchange and lateral hyporheic area of two streamâ€aquifer systems. Water Resources Research, 1998, 34, 317-328.	4.2	306
8	Nutrient dynamics at the interface between surface waters and groundwaters. Freshwater Biology, 1998, 40, 427-451.	2.4	277
9	ALLUVIAL CHARACTERISTICS, GROUNDWATERâ€“SURFACE WATER EXCHANGE AND HYDROLOGICAL RETENTION IN HEADWATER STREAMS. Hydrological Processes, 1997, 11, 253-267.	2.6	269
10	Interâ€regional comparison of landâ€use effects on stream metabolism. Freshwater Biology, 2010, 55, 1874-1890.	2.4	267
11	Factors affecting ammonium uptake in streams - an inter-biome perspective. Freshwater Biology, 2003, 48, 1329-1352.	2.4	233
12	Diverse microbial communities inhabiting ferromanganese deposits in Lechuguilla and Spider Caves. Environmental Microbiology, 2003, 5, 1071-1086.	3.8	203
13	ORGANIC CARBON SUPPLY AND METABOLISM IN A SHALLOW GROUNDWATER ECOSYSTEM. Ecology, 2000, 81, 3133-3148.	3.2	196
14	Managed Flooding for Riparian Ecosystem Restoration. BioScience, 1998, 48, 749-756.	4.9	193
15	Nitrate removal in stream ecosystems measured by 15N addition experiments: Denitrification. Limnology and Oceanography, 2009, 54, 666-680.	3.1	181
16	Wholeßstream metabolism in two montane streams: Contribution of the hyporheic zone. Limnology and Oceanography, 2001, 46, 523-531.	3.1	178
17	Functional Flows in Modified Riverscapes: Hydrographs, Habitats and Opportunities. BioScience, 2015, 65, 963-972.	4.9	177
18	Long-term vegetation monitoring with NDVI in a diverse semi-arid setting, central New Mexico, USA. Journal of Arid Environments, 2004, 58, 249-272.	2.4	168

#	Article	IF	Citations
19	Nitrate removal in stream ecosystems measured by 15N addition experiments: Total uptake. Limnology and Oceanography, 2009, 54, 653-665.	3.1	165
20	N retention and transformation in urban streams. Journal of the North American Benthological Society, 2005, 24, 626-642.	3.1	159
21	Pathways and Mechanisms for Removal of Dissolved Organic Carbon from Leaf Leachate in Streams. Canadian Journal of Fisheries and Aquatic Sciences, 1981, 38, 68-76.	1.4	156
22	Coupled biogeochemical and hydrological responses of streams and rivers to drought. Freshwater Biology, 2003, 48, 1219-1231.	2.4	152
23	Ecosystem Processes and Human Influences Regulate Streamflow Response to Climate Change at Long-Term Ecological Research Sites. BioScience, 2012, 62, 390-404.	4.9	149
24	Fire effects on aquatic ecosystems: an assessment of the current state of the science. Freshwater Science, 2015, 34, 1340-1350.	1.8	132
25	Acetate retention and metabolism in the hyporheic zone of a mountain stream. Limnology and Oceanography, 1999, 44, 1530-1539.	3.1	113
26	Flow intermittence and ecosystem services in rivers of the Anthropocene. Journal of Applied Ecology, 2018, 55, 353-364.	4.0	113
27	Evapotranspiration at the land/water interface in a semi-arid drainage basin. Freshwater Biology, 2002, 47, 831-843.	2.4	111
28	Bacterial Community Structure Along Moisture Gradients in the Parafluvial Sediments of Two Ephemeral Desert Streams. Microbial Ecology, 2011, 61, 543-556.	2.8	107
29	Riparian ecohydrology: regulation of water flux from the ground to the atmosphere in the Middle Rio Grande, New Mexico. Hydrological Processes, 2006, 20, 3207-3225.	2.6	106
30	Geomicrobiology of Cave Ferromanganese Deposits: A Field and Laboratory Investigation. Geomicrobiology Journal, 2005, 22, 99-116.	2.0	94
31	An Ecosystem View of the Restoration of the Kissimmee River. Restoration Ecology, 1995, 3, 225-238.	2.9	89
32	Seasonal estimates of actual evapo-transpiration from Tamarix ramosissima stands using three-dimensional eddy covariance. Journal of Arid Environments, 2002, 52, 181-197.	2.4	87
33	Seasonal and inter-annual relationships between vegetation and climate in central New Mexico, USA. Journal of Arid Environments, 2004, 57, 507-534.	2.4	84
34	Extreme water quality degradation following a catastrophic forest fire. Freshwater Biology, 2015, 60, 2584-2599.	2.4	79
35	A Perspective on El NiÃ±o and La NiÃ±a: Global Implications for Stream Ecology. Journal of the North American Benthological Society, 1990, 9, 68-76.	3.1	75
36	Stream Geomorphology: Effects on Periphyton Standing Crop and Primary Production. Journal of the North American Benthological Society, 1990, 9, 293-302.	3.1	70

#	Article	IF	Citations
37	On groundwater fluctuations, evapotranspiration, and understory removal in riparian corridors. Water Resources Research, 2009, 45, .	4.2	54
38	SENSITIVITY OF AQUATIC ECOSYSTEMS TO CLIMATIC AND ANTHROPOGENIC CHANGES: THE BASIN AND RANGE, AMERICAN SOUTHWEST AND MEXICO. Hydrological Processes, 1997, 11, 1023-1041.	2.6	52
39	River and Riparian Restoration in the Southwest: Results of the National River Restoration Science Synthesis Project. Restoration Ecology, 2007, 15, 550-562.	2.9	52
40	Nutrient and Organic Matter Dynamics in Intermittent Rivers and Ephemeral Streams. , 2017, , 135-160.		52
41	Terminal electron accepting processes in the alluvial sediments of a headwater stream. Journal of the North American Benthological Society, 2000, 19, 593-608.	3.1	50
42	Frontiers in realâ€time ecohydrology â€“ a paradigm shift in understanding complex environmental systems. Ecohydrology, 2015, 8, 529-537.	2.4	49
43	Nutrient dynamics in an alpine headwater stream: use of continuous water quality sensors to examine responses to wildfire and precipitation events. Hydrological Processes, 2015, 29, 3193-3207.	2.6	49
44	Initial microbiological response in lakes to the Mt St Helens eruption. Nature, 1982, 296, 49-52.	27.8	46
45	The effects of catastrophic wildfire on water quality along a river continuum. Freshwater Science, 2015, 34, 1426-1442.	1.8	42
46	Continental smokers couple mantle degassing and distinctive microbiology within continents. Earth and Planetary Science Letters, 2016, 435, 22-30.	4.4	42
47	Organic carbon transport in the Columbia River. Estuarine, Coastal and Shelf Science, 1981, 13, 645-658.	2.1	40
48	Advancing the Food-Energyâ€“Water Nexus: Closing Nutrient Loops in Arid River Corridors. Environmental Science & Technology, 2016, 50, 8485-8496.	10.0	36
49	Long-Path Ftir Measurement of Atmospheric Trace Gas Concentrations. Ecology, 1988, 69, 1326-1330.	3.2	35
50	Anoxia, Anaerobic Metabolism, and Biogeochemistry of the Stream-waterâ€“Ground-water Interface. , 2000, , 259-283.		35
51	Protecting U.S. temporary waterways. Science, 2018, 361, 856-857.	12.6	29
52	Pollution in mediterranean-climate rivers. Hydrobiologia, 2013, 719, 427-450.	2.0	28
53	Water Physicochemistry in Intermittent Rivers and Ephemeral Streams. , 2017, , 109-134.		28
54	Ground Arthropods as Potential Indicators of Flooding Regime in the Riparian Forest of the Middle Rio Grande, New Mexico. Environmental Entomology, 2003, 32, 1075-1084.	1.4	27

#	Article	IF	Citations
55	HYDROLOGICAL AND GEOCHEMICAL TRENDS AND PATTERNS IN THE UPPER RIO GRANDE, 1975 TO 1999. Journal of the American Water Resources Association, 2004, 40, 111-127.	2.4	25
56	AMMONIA MODELING FOR ASSESSING POTENTIAL TOXICITY TO FISH SPECIES IN THE RIO GRANDE, 1989â€“2002. , 2007, 17, 2087-2099.		23
57	Shifts in habitat templates for lotic microalgae linked to interannual variation in snowmelt intensity. Limnology and Oceanography, 2001, 46, 858-870.	3.1	22
58	Nutrient and organic carbon trends and patterns in the upper Rio Grande, 1975â€“1999. Science of the Total Environment, 2005, 345, 239-260.	8.0	20
59	Biogeochemistry at the zone of intermittent saturation: Field-based study of the shallow alluvial aquifer, Rio Grande, New Mexico. , 2007, 3, 366.		19
60	QUALITATIVE AND QUANTITATIVE OBSERVATIONS ON AQUATIC ALGAL COMMUNITIES AND RECOLONIZATION WITHIN THE BLAST ZONE OF MT. ST. HELENS, 1980 AND 19811. Journal of Phycology, 1983, 19, 238-247.	2.3	18
61	Initial Effects of the Mount St. Helens Eruption on Nitrogen Cycle and Related Chemical Processes in Ryan Lake. Applied and Environmental Microbiology, 1983, 45, 1633-1645.	3.1	18
62	Anaerobic carbon cycling in stream ecosystems. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1991, 24, 1600-1604.	0.1	17
63	GULF COAST RIVERS OF THE SOUTHWESTERN UNITED STATES. , 2005, , 180-228.		15
64	Evolutionary responses of aquatic macroinvertebrates to two contrasting flow regimes. Hydrobiologia, 2018, 808, 353-370.	2.0	15
65	Methodological Modifications for Accurate and Efficient Determination of Contaminant Biodegradation in Unsaturated Calcareous Soils. Applied and Environmental Microbiology, 1991, 57, 717-720.	3.1	14
66	Nutrient Dynamics of the Delta: Effects on Primary Producers. San Francisco Estuary and Watershed Science, 2016, 14, .	0.4	13
67	Impact of monsoonal rains on spatial scaling patterns in water chemistry of a semiarid river network. Journal of Geophysical Research, 2007, 112, .	3.3	12
68	Streams in Semiarid Regions as Sensitive Indicators of Global Climate Change. , 1992, , 250-260.		10
69	Linkages Between Riparian Characteristics, Ungulate Grazing, and Geomorphology and Nutrient Cycling in Montane Grassland Streams. Rangeland Ecology and Management, 2012, 65, 475-485.	2.3	10
70	Flooding Regime Impacts on Radiation, Evapotranspiration, and Latent Energy Fluxes over Groundwater-Dependent Riparian Cottonwood and Saltcedar Forests. Advances in Meteorology, 2015, 2015, 1-14.	1.6	10
71	Long-term Water Table Monitoring of Rio Grande Riparian Ecosystems for Restoration Potential Amid Hydroclimatic Challenges. Environmental Management, 2017, 60, 1101-1115.	2.7	10
72	Hyporheic Zones. , 2007, , 119-142.		10

#	Article	IF	Citations
73	Flood disturbance effects on benthic diatom assemblage structure in a semiarid river network. Journal of Phycology, 2015, 51, 133-143.	2.3	9
74	Methane production and oxidation in lakes impacted by the May 18, 1980 Eruption of Mount St. Helens. Global Biogeochemical Cycles, 1988, 2, 357-370.	4.9	8
75	Contribution of organic acids to alkalinity in lakes within the Mount St. Helens blast zone. Limnology and Oceanography, 1990, 35, 535-542.	3.1	8
76	Long-term data reveal highly-variable metabolism and transitions in trophic status in a montane stream. Freshwater Science, 2020, 39, 241-255.	1.8	8
77	Organic Carbon Supply and Metabolism in a Shallow Groundwater Ecosystem. Ecology, 2000, 81, 3133.	3.2	8
78	Introduction Restoring the Kissimmee. Restoration Ecology, 1995, 3, 147-148.	2.9	7
79	Meeting Ecological and Societal Needs for Freshwater. , 2002, 12, 1247.		7
80	Field testing long-path Fourier transform infrared (FTIR) spectroscopy for measurements of atmospheric gas concentrations. Remote Sensing of Environment, 1990, 32, 103-110.	11.0	6
81	Nitrogen Cycling in Altered and Newly Created Lakes Near the Mount St. Helens Volcano. Journal of Freshwater Ecology, 1988, 4, 551-568.	1.2	5
82	Can long-path FTIR spectroscopy yield gas flux measurements through a variance technique?. Atmospheric Environment Part A General Topics, 1992, 26, 225-233.	1.3	5
83	An independently corroborated, diatom-inferred record of long-term drought cycles occurring over the last two millennia in New Mexico, USA. Inland Waters, 2013, 3, 459-472.	2.2	5
84	Watershed hydrology and salinity, but not nutrient chemistry, are associated with arid-land stream microbial diversity. Freshwater Science, 2019, 38, 77-91.	1.8	5
85	The effects of a catastrophic forest fire on the biomass of submerged stream macrophytes. Aquatic Botany, 2019, 152, 36-42.	1.6	5
86	Differential effects of a catastrophic wildfire on downstream fish assemblages in an aridland river. Aquatic Ecology, 2021, 55, 483-500.	1.5	5
87	SENSITIVITY OF AQUATIC ECOSYSTEMS TO CLIMATIC AND ANTHROPOGENIC CHANGES: THE BASIN AND RANGE, AMERICAN SOUTHWEST AND MEXICO. Hydrological Processes, 1997, 11, 1023-1041.	2.6	3
88	WATER IN A CHANGING WORLD. , 2001, 11, 1027.		2
89	Uptake of dissolved organic carbon in mountain streams. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1984, 22, 1842-1846.	0.1	1
90	Influence of Desert Springs on Habitat of Endangered Zuni Bluehead Sucker (Catostomus discobolus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	1

#	Article	IF	Citations
91	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER. , 2002, 12, 1247.		1
92	Heterogeneity in algalâ€"grazer associations in a small montane spring. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 2453-2460.	0.1	0
93	Determining Evapotranspiration Rates in the Middle Rio Grande Bosque: 3-D Eddy Covariance and Remote Sensing Techniques. , 2001, , 1.		0