Nancy B Grimm

List of Publications by Citations

204 papers	22,997 citations	69 h-index	150 g-index
224 ext. papers	25,820 ext. citations	5.5 avg, IF	6.59 L-index

#	Paper	IF	Citations
204	Global change and the ecology of cities. *Science*, **2008**, 319, 756-60	33.3	3737
203	Biogeochemical Hot Spots and Hot Moments at the Interface of Terrestrial and Aquatic Ecosystems. *Ecosystems*, **2003**, 6, 301-312	3.9	1531
202	Stream denitrification across biomes and its response to anthropogenic nitrate loading. *Nature*, **2008**, 452, 202-5	50.4	932
201	Integrated Approaches to Long-TermStudies of Urban Ecological Systems. *BioScience*, **2000**, 50, 571	5.7	755
200	Temporal Succession in a Desert Stream Ecosystem Following Flash Flooding. *Ecological Monographs*, **1982**, 52, 93-110	9	613
199	Towards an ecological understanding of biological nitrogen fixation. *Biogeochemistry*, **2002**, 57, 1-45	3.8	608
198	Socioeconomics drive urban plant diversity. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 8788-92	11.5	530
197	The changing landscape: ecosystem responses to urbanization and pollution across climatic and societal gradients. *Frontiers in Ecology and the Environment*, **2008**, 6, 264-272	5.5	477
196	A distinct urban biogeochemistry?. *Trends in Ecology and Evolution*, **2006**, 21, 192-9	10.9	476
195	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, 214-9	11.5	390
194	An integrated conceptual framework for long-term social–ecological research. *Frontiers in Ecology and the Environment*, **2011**, 9, 351-357	5.5	386
193	Advancing Urban Ecology toward a Science of Cities. *BioScience*, **2016**, 66, 198-212	5.7	363
192	Ecosystem Expansion and Contraction in StreamsDesert streams vary in both space and time and fluctuate dramatically in size. *BioScience*, **1997**, 47, 427-435	5.7	345
191	Inter-biome comparison of factors controlling stream metabolism. *Freshwater Biology*, **2001**, 46, 1503-1517	3.1	308
190	Stability of Periphyton and Macroinvertebrates to Disturbance by Flash Floods in a Desert Stream. *Journal of the North American Benthological Society*, **1989**, 8, 293-307		304
189	The impacts of climate change on ecosystem structure and function. *Frontiers in Ecology and the Environment*, **2013**, 11, 474-482	5.5	301
188	Global Change and Freshwater Ecosystems. *Annual Review of Ecology, Evolution, and Systematics*, **1992**, 23, 119-139		263

187	Nitrogen Limitation in a Sonoran Desert Stream. *Journal of the North American Benthological Society*, **1986**, 5, 2-15		261
186	Exchange between interstitial and surface water: Implications for stream metabolism and nutrient cycling. *Hydrobiologia*, **1984**, 111, 219-228	2.4	259
185	A New Urban Ecology. *American Scientist*, **2000**, 88, 416	2.7	251
184	Nutrient dynamics at the interface between surface waters and groundwaters. *Freshwater Biology*, **1998**, 40, 427-451	3.1	245
183	LINKAGES BETWEEN MICROBIAL AND HYDROLOGIC PROCESSES IN ARID AND SEMIARID WATERSHEDS. *Ecology*, **2005**, 86, 298-307	4.6	235
182	Inter-regional comparison of land-use effects on stream metabolism. *Freshwater Biology*, **2010**, 55, 1874-1890	3.1	227
181	Material Spiraling in Stream Corridors: A Telescoping Ecosystem Model. *Ecosystems*, **1998**, 1, 19-34	3.9	210
180	Opportunities and challenges for managing nitrogen in urban stormwater: A review and synthesis. *Ecological Engineering*, **2010**, 36, 1507-1519	3.9	208
179	Factors affecting ammonium uptake in streams an inter-biome perspective. *Freshwater Biology*, **2003**, 48, 1329-1352	3.1	196
178	Denitrification in a nitrogen-limited stream ecosystem. *Biogeochemistry*, **1996**, 33, 125-146	3.8	193
177	The US Long Term Ecological Research Program. *BioScience*, **2003**, 53, 21	5.7	191
176	N uptake as a function of concentration in streams. *Journal of the North American Benthological Society*, **2002**, 21, 206-220		191
175	Vertical Hydrologic Exchange and Ecological Stability of a Desert Stream Ecosystem. *Ecology*, **1994**, 75, 548-560	4.6	179
174	Carbon and nitrogen transfer from a desert stream to riparian predators. *Oecologia*, **2003**, 134, 238-50	2.9	162
173	Can uptake length in streams be determined by nutrient addition experiments? Results from an interbiome comparison study. *Journal of the North American Benthological Society*, **2002**, 21, 544-560		159
172	The metabolic regimes of flowing waters. *Limnology and Oceanography*, **2018**, 63, S99	4.8	157
171	Nitrate removal in stream ecosystems measured by 15N addition experiments: Denitrification. *Limnology and Oceanography*, **2009**, 54, 666-680	4.8	155
170	Nitrogen Dynamics During Succession in a Desert Stream. *Ecology*, **1987**, 68, 1157-1170	4.6	150

169	Stability of an Aquatic Macroinvertebrate Community in a Multiyear Hydrologic Disturbance Regime. *Ecology*, **1992**, 73, 2192-2207	4.6	148
168	N retention and transformation in urban streams. *Journal of the North American Benthological Society*, **2005**, 24, 626-642		144
167	Nitrification in the Hyporheic Zone of a Desert Stream Ecosystem. *Journal of the North American Benthological Society*, **1995**, 14, 249-258		143
166	Invertebrate Resistance and Resilience to Intermittency in a Desert Stream. *American Midland Naturalist*, **1994**, 131, 288	0.7	143
165	Nitrate removal in stream ecosystems measured by 15N addition experiments: Total uptake. *Limnology and Oceanography*, **2009**, 54, 653-665	4.8	142
164	Vertical Hydrologic Exchange and Ecosystem Metabolism in a Sonoran Desert Stream. *Ecology*, **1995**, 76, 942-952	4.6	141
163	Parafluvial Nitrogen Dynamics in a Desert Stream Ecosystem. *Journal of the North American Benthological Society*, **1994**, 13, 468-478		135
162	The Urban Funnel Model and the Spatially Heterogeneous Ecological Footprint. *Ecosystems*, **2001**, 4, 782-796	3.9	129
161	Living in an increasingly connected world: a framework for continental-scale environmental science. *Frontiers in Ecology and the Environment*, **2008**, 6, 229-237	5.5	128
160	Ecosystem Processes and Human Influences Regulate Streamflow Response to Climate Change at Long-Term Ecological Research Sites. *BioScience*, **2012**, 62, 390-404	5.7	126
159	Urbanization and the carbon cycle: Current capabilities and research outlook from the natural sciences perspective. *Earthjs Future*, **2014**, 2, 473-495	7.9	125
158	SPATIAL HETEROGENEITY OF STREAM WATER NUTRIENT CONCENTRATIONS OVER SUCCESSIONAL TIME. *Ecology*, **1999**, 80, 2283-2298	4.6	121
157	Global change-driven effects on dissolved organic matter composition: Implications for food webs of northern lakes. *Global Change Biology*, **2018**, 24, 3692-3714	11.4	118
156	Merging aquatic and terrestrial perspectives of nutrient biogeochemistry. *Oecologia*, **2003**, 137, 485-501	2.9	115
155	Changing forest water yields in response to climate warming: results from long-term experimental watershed sites across North America. *Global Change Biology*, **2014**, 20, 3191-208	11.4	114
154	A Multiscale, Hierarchical Model of Pulse Dynamics in Arid-Land Ecosystems. *Annual Review of Ecology, Evolution, and Systematics*, **2014**, 45, 397-419	13.5	113
153	Temporal Variation in Enrichment Effects during Periphyton Succession in a Nitrogen-Limited Desert Stream Ecosystem. *Journal of the North American Benthological Society*, **1992**, 11, 20-36		111
152	Multiscale effects of surface–subsurface exchange on stream water nutrient concentrations. *Journal of the North American Benthological Society*, **2001**, 20, 162-181		109

151	Pre- and Post-Flood Retention Efficiency of Nitrogen in a Sonoran Desert Stream. *Journal of the North American Benthological Society*, **1997**, 16, 805-819		107
150	Climate change: Track urban emissions on a human scale. *Nature*, **2015**, 525, 179-81	50.4	102
149	Approaches to the study of urban ecosystems: The case of Central Arizona□Phoenix. *Urban Ecosystems*, **2004**, 7, 199-213	2.8	101
148	Ecohydrological interfaces as hot spots of ecosystem processes. *Water Resources Research*, **2017**, 53, 6359-6376	5.4	100
147	Carbon and nitrogen stoichiometry and nitrogen cycling rates in streams. *Oecologia*, **2004**, 140, 458-67	2.9	99
146	Global urban growth and the geography of water availability, quality, and delivery. *Ambio*, **2011**, 40, 437-46	4.6	98
145	Urban phosphorus sustainability: Systemically incorporating social, ecological, and technological factors into phosphorus flow analysis. *Environmental Science and Policy*, **2015**, 47, 1-11	6.2	97
144	Defining Extreme Events: A Cross-Disciplinary Review. *Earthjs Future*, **2018**, 6, 441-455	7.9	94
143	A critical knowledge pathway to low-carbon, sustainable futures: Integrated understanding of urbanization, urban areas, and carbon. *Earthjs Future*, **2014**, 2, 515-532	7.9	92
142	Effects of urbanization on plant species diversity in central Arizona. *Frontiers in Ecology and the Environment*, **2009**, 7, 465-470	5.5	86
141	Role of Macroinvertebrates in Nitrogen Dynamics of a Desert Stream. *Ecology*, **1988**, 69, 1884-1893	4.6	85
140	Nitrogen fixation in a desert stream ecosystem **1997**, 37, 33-61		84
139	Hot spots and hot moments of carbon and nitrogen dynamics in a semiarid riparian zone. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		79
138	Resazurin as a □smart□ tracer for quantifying metabolically active transient storage in stream ecosystems. *Journal of Geophysical Research*, **2009**, 114,		77
137	Atmospheric deposition of carbon and nutrients across an arid metropolitan area. *Science of the Total Environment*, **2008**, 402, 95-105	10.2	73
136	THE INFLUENCE OF A RIPARIAN SHRUB ON NITROGEN CYCLING IN A SONORAN DESERT STREAM. *Ecology*, **2001**, 82, 3363-3376	4.6	70
135	Does the ecological concept of disturbance have utility in urban social□ecological□technological systems?. *Ecosystem Health and Sustainability*, **2017**, 3, e01255	3.7	67
134	Sources of Nitrogen to the Riparian Zone of a Desert Stream: Implications for Riparian Vegetation and Nitrogen Retention. *Ecosystems*, **2002**, 5, 68-79	3.9	67

133	Effects of Urbanization-Induced Environmental Changes on Ecosystem Functioning in the Phoenix Metropolitan Region, USA. *Ecosystems*, **2008**, 11, 138-155	3.9	66
132	Nitrogen Transport and Retention in an Arid Land Watershed: Influence of Storm Characteristics on Terrestrial□quatic Linkages. *Biogeochemistry*, **2005**, 76, 421-440	3.8	66
131	Hierarchy, spatial configuration, and nutrient cycling in a desert stream. *Austral Ecology*, **1998**, 23, 41-52	1.5	65
130	Urban nitrogen biogeochemistry: status and processes in green retention basins. *Biogeochemistry*, **2004**, 71, 177-196	3.8	60
129	Nutrient Vectors and Riparian Processing: A Review with Special Reference to African Semiarid Savanna Ecosystems. *Ecosystems*, **2007**, 10, 1231-1249	3.9	59
128	Stormwater Infrastructure Controls Runoff and Dissolved Material Export from Arid Urban Watersheds. *Ecosystems*, **2015**, 18, 62-75	3.9	58
127	Responses of macroinvertebrate communities to long-term flow variability in a Sonoran Desert stream. *Global Change Biology*, **2010**, 16, 2891-2900	11.4	56
126	Trophic interactions in open systems: Effects of predators and nutrients on stream food chains. *Limnology and Oceanography*, **1999**, 44, 1187-1197	4.8	56
125	Assessment of regional variation in streamflow responses to urbanization and the persistence of physiography. *Environmental Science & Technology*, **2015**, 49, 2724-32	10.3	55
124	Nitrogen and phosphorus dynamics in hot desert streams of Southwestern U.S.A.. *Hydrobiologia*, **1981**, 83, 303-312	2.4	55
123	Hierarchical regulation of nitrogen export from urban catchments: interactions of storms and landscapes **2007**, 17, 2347-64		54
122	Cross-stream comparison of substrate-specific denitrification potential. *Biogeochemistry*, **2011**, 104, 381-392	3.8	53
121	Response of a Hyporheic Invertebrate Assemblage to Drying Disturbance in a Desert Stream. *Journal of the North American Benthological Society*, **1996**, 15, 700-712		53
120	Points, patches, and regions: scaling soil biogeochemical patterns in an urbanized arid ecosystem. *Global Change Biology*, **2006**, 12, 1532-1544	11.4	53
119	Nature-based approaches to managing climate change impacts in cities. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190124	5.8	52
118	Sources and transport of nitrogen in arid urban watersheds. *Environmental Science & Technology*, **2014**, 48, 6211-9	10.3	51
117	The impact of flash floods on microbial distribution and biogeochemistry in the parafluvial zone of a desert stream. *Freshwater Biology*, **1998**, 40, 641-654	3.1	50
116	Soil N2O and NO emissions from an arid, urban ecosystem. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		50

115	Methanogenesis in Arizona, USA dryland streams. *Biogeochemistry*, **1995**, 31, 155-173	3.8	48
114	Ecosystem response to nutrient enrichment across an urban airshed in the Sonoran Desert **2011**, 21, 640-60		47
113	Unintended Consequences of Urbanization for Aquatic Ecosystems: A Case Study from the Arizona Desert. *BioScience*, **2008**, 58, 715-727	5.7	47
112	Modelling potential impacts of climate change on water and nitrate export from a mid-sized, semiarid watershed in the US Southwest. *Climatic Change*, **2013**, 120, 419-431	4.5	46
111	Moving Towards a New Urban Systems Science. *Ecosystems*, **2017**, 20, 38-43	3.9	46
110	Urban ecology: advancing science and society. *Frontiers in Ecology and the Environment*, **2014**, 12, 574-58	5.5	46
109	Mechanisms of benthic algal recovery following spates: comparison of simulated and natural events. *Oecologia*, **1994**, 98, 280-290	2.9	44
108	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. *Ecological Monographs*, **2018**, 88, 120-138	9	43
107	SENSITIVITY OF AQUATIC ECOSYSTEMS TO CLIMATIC AND ANTHROPOGENIC CHANGES: THE BASIN AND RANGE, AMERICAN SOUTHWEST AND MEXICO. *Hydrological Processes*, **1997**, 11, 1023-1041	3.3	43
106	Soil Characteristics and the Accumulation of Inorganic Nitrogen in an Arid Urban Ecosystem. *Ecosystems*, **2006**, 9, 711-724	3.9	42
105	Accidental urban wetlands: ecosystem functions in unexpected places. *Frontiers in Ecology and the Environment*, **2017**, 15, 248-256	5.5	41
104	A hierarchical patch mosaic ecosystem model for urban landscapes: Model development and evaluation. *Ecological Modelling*, **2013**, 250, 81-100	3	41
103	Urbanization Alters Soil Microbial Functioning in the Sonoran Desert. *Ecosystems*, **2009**, 12, 654-671	3.9	40
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101	Hierarchical Bayesian scaling of soil properties across urban, agricultural, and desert ecosystems **2008**, 18, 132-45		38
100	Hydrologic exchange and N uptake by riparian vegetation in an arid-land stream. *Journal of the North American Benthological Society*, **2005**, 24, 19-28		38
99	Drivers of Spatial Variation in Plant Diversity Across the Central Arizona-Phoenix Ecosystem. *Society and Natural Resources*, **2006**, 19, 101-116	2.4	38
98	Feeding dynamics, nitrogen budgets, and ecosystem role of a desert stream omnivore, Agosia chrysogaster (Pisces: Cyprinidae). *Environmental Biology of Fishes*, **1988**, 21, 143-152	1.6	38

97	Invertebrate recolonization of small patches of defaunated hyporheic sediments in a Sonoran Desert stream. *Freshwater Biology*, **1991**, 26, 267-277	3.1	37
96	Climate-change impacts on ecological systems: introduction to a US assessment. *Frontiers in Ecology and the Environment*, **2013**, 11, 456-464	5.5	36
95	Spatial variation in soil inorganic nitrogen across an arid urban ecosystem. *Urban Ecosystems*, **2005**, 8, 251-273	2.8	36
94	Hydrologic and material budgets for a small Sonoran Desert watershed during three consecutive cloudburst floods. *Journal of Arid Environments*, **1985**, 9, 105-118	2.5	36
93	Streams and Disturbance: Are Cross-Ecosystem Comparisons Useful? **1991**, 196-221		35
92	Influence of governance structure on green stormwater infrastructure investment. *Environmental Science and Policy*, **2018**, 84, 124-133	6.2	34
91	Nitrogen and phosphorus fluxes from watersheds of the northeast U.S. from 1930 to 2000: Role of anthropogenic nutrient inputs, infrastructure, and runoff. *Global Biogeochemical Cycles*, **2015**, 29, 341-356	5.9	34
90	Influence of nitrate and ammonium availability on uptake kinetics of stream biofilms. *Freshwater Science*, **2013**, 32, 1155-1167	2	34
89	Spatial Heterogeneity of Denitrification in Semi-Arid Floodplains. *Ecosystems*, **2009**, 12, 129-143	3.9	32
88	Socio-eco-evolutionary dynamics in cities. *Evolutionary Applications*, **2021**, 14, 248-267	4.8	32
87	Frontiers in Ecosystem Ecology from a Community Perspective: The Future is Boundless and Bright. *Ecosystems*, **2016**, 19, 753-770	3.9	31
86	Simulating the dynamics of primary productivity of a Sonoran ecosystem: Model parameterization and validation. *Ecological Modelling*, **2005**, 189, 1-24	3	31
85	Variability in surface-subsurface hydrologic interactions and implications for nutrient retention in an arid-land stream. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		30
84	The co-production of sustainable future scenarios. *Landscape and Urban Planning*, **2020**, 197, 103744	7.7	30
83	The Complexity of Urban Eco-evolutionary Dynamics. *BioScience*, **2020**, 70, 772-793	5.7	30
82	A long-term perspective of dissolved organic carbon transport in Sycamore Creek, Arizona, USA. *Hydrobiologia*, **1996**, 317, 183-188	2.4	29
81	Responses of trace gases to hydrologic pulses in desert floodplains. *Journal of Geophysical Research* , **2012**, 117,		28
80	Towards an ecological understanding of biological nitrogen fixation **2002**, 1-45		28

79	Influence of the hydrologic regime on resource availability in a semi-arid stream-riparian corridor. *Ecohydrology*, **2010**, 3, 349-359	2.5	27
78	Organic Matter Dynamics in Sycamore Creek, a Desert Stream in Arizona, USA. *Journal of the North American Benthological Society*, **1997**, 16, 78-82		27
77	Flood Frequency and Stream-Riparian Linkages in Arid Lands **2000**, 111-136		27
76	Traversing the Wasteland: A Framework for Assessing Ecological Threats to Drylands. *BioScience*, **2020**, 70, 35-47	5.7	27
75	Variation in monsoon precipitation drives spatial and temporal patterns of Larrea tridentata growth in the Sonoran Desert. *Functional Ecology*, **2012**, 26, 750-758	5.6	25
74	Small-scale and extensive hydrogeomorphic modification and water redistribution in a desert city and implications for regional nitrogen removal. *Urban Ecosystems*, **2012**, 15, 71-85	2.8	24
73	Development of a framework for quantifying the environmental impacts of urban development and construction practices. *Environmental Science & Technology*, **2007**, 41, 5130-6	10.3	24
72	Assessment of urban flood vulnerability using the social-ecological-technological systems framework in six US cities. *Sustainable Cities and Society*, **2021**, 68, 102786	10.1	24
71	Why Link Species and Ecosystems? A Perspective from Ecosystem Ecology **1995**, 5-15		24
70	Subsystems, flowpaths, and the spatial variability of nitrogen in a fluvial ecosystem. *Landscape Ecology*, **2007**, 22, 911-924	4.3	21
69	A comparative gradient approach as a tool for understanding and managing urban ecosystems. *Urban Ecosystems*, **2012**, 15, 795-807	2.8	20
68	Responses of Arid-Land Streams to Changing Climate **1992**, 211-233		20
67	Climate change impacts on ecosystems and ecosystem services in the United States: process and prospects for sustained assessment. *Climatic Change*, **2016**, 135, 97-109	4.5	19
66	Influence of shifting flow paths on nitrogen concentrations during monsoon floods, San Pedro River, Arizona. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		19
65	The Spatial Structure of Variability in a Semi-arid, Fluvial Ecosystem. *Ecosystems*, **2006**, 9, 386-397	3.9	19
64	The Framing of Urban Sustainability Transformations. *Sustainability*, **2019**, 11, 573	3.6	18
63	Nutrients on Asphalt Parking Surfaces in an Urban Environment. *Water, Air and Soil Pollution*, **2004**, 4, 371-390		18
62	Temporal variability in hydrology modifies the influence of geomorphology on wetland distribution along a desert stream. *Journal of Ecology*, **2016**, 104, 18-30	6	18

61	Beyond Restoration and into Design: Hydrologic Alterations in Aridland Cities. *Future City*, **2013**, 183-210	0.1	17
60	Urbanization in and for the Anthropocene. *Npj Urban Sustainability*, **2021**, 1,		17
59	Comparative study of urban ecology development in the U.S. and China: Opportunity and Challenge. *Urban Ecosystems*, **2015**, 18, 599-611	2.8	16
58	Denitrification mitigates N flux through the stream-floodplain complex of a desert city **2011**, 21, 2618-36		16
57	Integrated Approaches to Long-Term Studies of Urban Ecological Systems123-141		16
56	Dissolved inorganic nitrogen dynamics in the hyporheic zone of reference and human-altered southwestern U. S. streams. *Fundamental and Applied Limnology*, **2010**, 176, 391-405	1.9	14
55	An Ecosystem Approach to Understanding Cities: Familiar Foundations and Uncharted Frontiers **2003**, 95-114		14
54	Subsurface Influences on Surface Biology **2000**, 381-402		14
53	Ch. 8: Ecosystems, Biodiversity, and Ecosystem Services. Climate Change Impacts in the United States: The Third National Climate Assessment **2014**,		14
52	Viewing the Urban Socio-ecological System Through a Sustainability Lens: Lessons and Prospects from the Central ArizonaPhoenix LTER Programme **2013**, 217-246		13
51	Urban Science: Integrated Theory from the First Cities to Sustainable Metropolises. *SSRN Electronic Journal*,	1	13
50	Urbanization in Arid Central Arizona Watersheds Results in Decreased Stream Flashiness. *Water Resources Research*, **2019**, 55, 9436-9453	5.4	12
49	Integrating existing climate adaptation planning into future visions: A strategic scenario for the central ArizonaPhoenix region. *Landscape and Urban Planning*, **2020**, 200, 103820	7.7	12
48	Hierarchical Spatial Modeling and Prediction of Multiple Soil Nutrients and Carbon Concentrations. *Communications in Statistics Part B: Simulation and Computation*, **2008**, 37, 434-453	0.6	11
47	Mixed method approach to assess atmospheric nitrogen deposition in arid and semi-arid ecosystems. *Environmental Pollution*, **2018**, 239, 617-630	9.3	11
46	Contribution of the hyporheic zone to stability of an arid-land stream. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **1991**, 24, 1595-1599		10
45	Evidence for self-organization in determining spatial patterns of stream nutrients, despite primacy of the geomorphic template. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4744-E4752	11.5	9
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43	Nutrient variation in an urban lake chain and its consequences for phytoplankton production. *Journal of Environmental Quality*, **2009**, 38, 1429-40	3.4	9
42	Urban nitrogen biogeochemistry: status and processes in green retention basins. *Biogeochemistry*, **2005**, 71, 177-196	3.8	9
41	Building community heat action plans story by story: A three neighborhood case study. *Cities*, **2020**, 107, 102886	5.6	9
40	Cities of the Southwest are testbeds for urban resilience. *Frontiers in Ecology and the Environment*, **2019**, 17, 79-80	5.5	8
39	Disturbance as a determinant of structure in a Sonoran Desert stream ecosystem. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **1988**, 23, 1183-1189		8
38	Diel Feeding Chronologies in Two Sonoran Desert Stream Fishes, Agosia chrysogaster (Cyprinidae) and Pantosteus clarki (Catostomidae). *Southwestern Naturalist*, **1981**, 26, 31	0.3	8
37	Beyond bouncing back? Comparing and contesting urban resilience frames in US and Latin American contexts. *Landscape and Urban Planning*, **2021**, 214, 104173	7.7	8
36	Extreme events and climate adaptation-mitigation linkages: Understanding low-carbon transitions in the era of global urbanization. *Wiley Interdisciplinary Reviews: Climate Change*, **2019**, 10, e616	8.4	7
35	Carbon lost and carbon gained: a study of vegetation and carbon trade-offs among diverse land uses in Phoenix, Arizona. *Ecological Applications*, **2017**, 27, 644-661	4.9	7
34	Evaluating climate impacts on people and ecosystems. *Frontiers in Ecology and the Environment*, **2013**, 11, 455-455	5.5	7
33	Perspectives on the modern nitrogen cycle **2010**, 20, 3-4		7
32	Socioeconomics Drive Urban Plant Diversity339-347		7
31	Chronic N loading reduces N retention across varying base flows in a desert river. *Journal of the North American Benthological Society*, **2011**, 30, 559-572		6
30	Effects of Urbanization on Nutrient Biogeochemistry of Aridland Streams. *Geophysical Monograph Series*, **2004**, 129-146	1.1	6
29	Decomposition of urban atmospheric carbon in Sonoran Desert soils. *Urban Ecosystems*, **2011**, 14, 737-754	2.8	5
28	Using Biomimicry to Support Resilient Infrastructure Design. *Earthjs Future*, **2020**, 8, e2020EF001653	7.9	5
27	Full title: Urban flood risk and green infrastructure: Who is exposed to risk and who benefits from investment? A case study of three U.S. Cities. *Landscape and Urban Planning*, **2022**, 223, 104417	7.7	5
26	Type and timing of stream flow changes in urbanizing watersheds in the Eastern U.S.. *Elementa*, **2015**, 3,	3.6	4

25	THE INFLUENCE OF A RIPARIAN SHRUB ON NITROGEN CYCLING IN A SONORAN DESERT STREAM **2001**, 82, 3363		4
24	Foundations and Frontiers of Ecosystem Science: Legacy of a Classic Paper (Odum 1969). *Ecosystems*, **2019**, 22, 1160-1172	3.9	4
23	Light and flow regimes regulate the metabolism of rivers.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	4
22	A social-ecological-technological systems framework for urban ecosystem services. *One Earth*, **2022**, 5, 505-518	8.1	4
21	SENSITIVITY OF AQUATIC ECOSYSTEMS TO CLIMATIC AND ANTHROPOGENIC CHANGES: THE BASIN AND RANGE, AMERICAN SOUTHWEST AND MEXICO **1997**, 11, 1023		3
20	Simulating alternative sustainable water futures. *Sustainability Science*, **2020**, 15, 1199-1210	6.4	2
19	Surface-Subsurface Interactions in Streams **2007**, 761-782		2
18	Modification of macrophyte resistance to disturbance by an exotic grass, and implications for desert stream succession. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **1994**, 25, 1456-1460		2
17	Water and nitrogen shape winter annual plant diversity and community composition in near-urban Sonoran Desert preserves.. *Ecological Monographs*, **2021**, 91, 1-19	9	2
16	Interactions Between Physical Template and Self-organization Shape Plant Dynamics in a Stream Ecosystem. *Ecosystems*, **2020**, 23, 891-905	3.9	2
15	Assessing Future Resilience, Equity, and Sustainability in Scenario Planning. *Urban Book Series*, **2021**, 113-127	0.3	2
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