Emily Bernhardt

List of Publications by Year
in descending order

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Version: 2024-02-01

196 papers	21,172 citations	13865 67 h-index	10734 138 g-index
203 all docs	203 docs citations	203 times ranked	20043 citing authors

#	Article	IF	Citations
1	Climate Change Driving Widespread Loss of Coastal Forested Wetlands Throughout the North American Coastal Plain. Ecosystems, 2022, 25, 812-827.	3.4	34
2	Alkaline mine drainage drives stream sediment microbial community structure and function. Science of the Total Environment, 2022, 805, 150189.	8.0	6
3	Saltwater intrusion in context: soil factors regulate impacts of salinity on soil carbon cycling. Biogeochemistry, 2022, 157, 215-226.	3.5	8
4	Salinity thresholds for understory plants in coastal wetlands. Plant Ecology, 2022, 223, 323-337.	1.6	15
5	Are nitrogen and carbon cycle processes impacted by common stream antibiotics? A comparative assessment of single vs. mixture exposures. PLoS ONE, 2022, 17, e0261714.	2.5	4
6	Amazon forests capture high levels of atmospheric mercury pollution from artisanal gold mining. Nature Communications, 2022, 13, 559.	12.8	67
7	Light and flow regimes regulate the metabolism of rivers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	62
8	Chemistry of surface water, precipitation, throughfall, leaves, sediment, soil, and air near a gold mining region in <scp>P</scp>eru. Ecology, 2022, 103, e3666.	3.2	2
9	Coastal freshwater wetlands squeezed between migrating salt marshes and working lands. Science Advances, 2022, 8, .	10.3	2
10	Predicting highâ€frequency variation in stream solute concentrations with water quality sensors and machine learning. Hydrological Processes, 2021, 35, .	2.6	22
11	Watershed studies at the Hubbard Brook Experimental Forest: Building on a long legacy of research with new approaches and sources of data. Hydrological Processes, 2021, 35, .	2.6	10
12	Thinking like a consumer: Linking aquatic basal metabolism and consumer dynamics. Limnology and Oceanography Letters, 2021, 6, 1-17.	3.9	23
13	Rapid deforestation of a coastal landscape driven by seaâ€level rise and extreme events. Ecological Applications, 2021, 31, e02339.	3.8	52
14	Hypoxia dynamics and spatial distribution in a low gradient river. Limnology and Oceanography, 2021, 66, 2251-2265.	3.1	15
15	A seasonally dynamic model of light at the stream surface. Freshwater Science, 2021, 40, 286-301.	1.8	14
16	A century of change: Reconstructing the biogeochemical history of Hubbard Brook. Hydrological Processes, 2021, 35, e14256.	2.6	8
17	Mountaintop mining legacies constrain ecological, hydrological and biogeochemical recovery trajectories. Environmental Research Letters, 2021, 16, 075004.	5.2	7
18	Consistent declines in aquatic biodiversity across diverse domains of life in rivers impacted by surface coal mining. Ecological Applications, 2021, 31, e02389.	3.8	17

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19	Characterizing and classifying urban watersheds with compositional and structural attributes. Hydrological Processes, 2021, 35, e14339.	2.6	6
20	Ecosystem modification and network position impact insect-mediated contaminant fluxes from a mountaintop mining-impacted river network. Environmental Pollution, 2021, 291, 118257.	7.5	1
21	Lethal impacts of selenium counterbalance the potential reduction in mercury bioaccumulation for freshwater organisms. Environmental Pollution, 2021, 287, 117293.	7.5	4
22	Succession, regression and loss: does evidence of saltwater exposure explain recent changes in the tree communities of North Carolinaâ€™s Coastal Plain?. Annals of Botany, 2020, 125, 255-264.	2.9	17
23	Subsidized or stressed? Shifts in freshwater benthic microbial metagenomics along a gradient of alkaline coal mine drainage. Limnology and Oceanography, 2020, 65, S277.	3.1	7
24	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.	4.3	32
25	Rare microbial taxa emerge when communities collide: freshwater and marine microbiome responses to experimental mixing. Ecology, 2020, 101, e02956.	3.2	57
26	Copper and Gold Nanoparticles Increase Nutrient Excretion Rates of Primary Consumers. Environmental Science & Technology, 2020, 54, 10170-10180.	10.0	10
27	Artificial lake expansion amplifies mercury pollution from gold mining. Science Advances, 2020, 6, .	10.3	34
28	The Lithosphere. , 2020, , 99-139.		2
29	The Carbon Cycle of Terrestrial Ecosystems. , 2020, , 141-182.		4
30	Biogeochemical Cycling on Land. , 2020, , 183-248.		2
31	Inland Waters. , 2020, , 293-360.		4
32	The Oceans. , 2020, , 361-429.		0
33	The Global Carbon and Oxygen Cycles. , 2020, , 453-481.		1
34	The Global Cycles of Nitrogen, Phosphorus and Potassium. , 2020, , 483-508.		2
35	Wetland Ecosystems. , 2020, , 249-291.		10
36	Mercury and selenium loading in mountaintop mining impacted alkaline streams and riparian food webs. Biogeochemistry, 2020, 150, 109-122.	3.5	8

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37	The Atmosphere. , 2020, , 51-97.		8
38	Contaminant Subsidies to Riparian Food Webs in Appalachian Streams Impacted by Mountaintop Removal Coal Mining. Environmental Science & Technology, 2020, 54, 3951-3959.	10.0	28
39	Do Two Wrongs Make a Right? Persistent Uncertainties Regarding Environmental Seleniumâ€"Mercury Interactions. Environmental Science & Technology, 2020, 54, 9228-9234.	10.0	37
40	Differential Reactivity of Copper- and Gold-Based Nanomaterials Controls Their Seasonal Biogeochemical Cycling and Fate in a Freshwater Wetland Mesocosm. Environmental Science & Technology, 2020, 54, 1533-1544.	10.0	29
41	Emergent productivity regimes of river networks. Limnology and Oceanography Letters, 2019, 4, 173-181.	3.9	50
42	Stoichiometry and daily rhythms: experimental evidence shows nutrient limitation decouples N uptake from photosynthesis. Ecology, 2019, 100, e02822.	3.2	6
43	Metabolic rhythms in flowing waters: An approach for classifying river productivity regimes. Limnology and Oceanography, 2019, 64, 1835-1851.	3.1	52
44	In search of microbial indicator taxa: shifts in stream bacterial communities along an urbanization gradient. Environmental Microbiology, 2019, 21, 3653-3668.	3.8	61
45	Watershed urban development controls on urban streamwater chemistry variability. Biogeochemistry, 2019, 144, 61-84.	3.5	30
46	The Invisible Flood: The Chemistry, Ecology, and Social Implications of Coastal Saltwater Intrusion. BioScience, 2019, 69, 368-378.	4.9	151
47	Beyond Selenium: Coal Combustion Residuals Lead to Multielement Enrichment in Receiving Lake Food Webs. Environmental Science & Technology, 2019, 53, 4119-4127.	10.0	18
48	Excess Nitrate Export in Mountaintop Removal Coal Mining Watersheds. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3867-3880.	3.0	17
49	Constraint-based simulation of multiple interactive elemental cycles in biogeochemical systems. Ecological Informatics, 2019, 50, 102-121.	5.2	7
50	Salt effects on carbon mineralization in southeastern coastal wetland soils of the United States. Geoderma, 2019, 339, 31-39.	5.1	19
51	Hydrologic Context Alters Greenhouse Gas Feedbacks of Coastal Wetland Salinization. Ecosystems, 2019, 22, 1108-1125.	3.4	28
52	Scoured or suffocated: Urban stream ecosystems oscillate between hydrologic and dissolved oxygen extremes. Limnology and Oceanography, 2019, 64, 877-894.	3.1	87
53	The metabolic regimes of flowing waters. Limnology and Oceanography, 2018, 63, S99.	3.1	247
54	Senegalese artisanal gold mining leads to elevated total mercury and methylmercury concentrations in soils, sediments, and rivers. Elementa, 2018, 6, .	3.2	28

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55	Strontium Isotope Ratios in Fish Otoliths as Biogenic Tracers of Coal Combustion Residual Inputs to Freshwater Ecosystems. Environmental Science and Technology Letters, 2018, 5, 718-723.	8.7	10
56	Give and Take: A Watershed Acid Rain Mitigation Experiment Increases Baseflow Nitrogen Retention but Increases Stormflow Nitrogen Export. Environmental Science & Technology, 2018, 52, 13155-13165.	10.0	16
57	Sediment chemistry of urban stormwater ponds and controls on denitrification. Ecosphere, 2018, 9, e02318.	2.2	22
58	Not all pavements lead to streams: variation in impervious surface connectivity affects urban stream ecosystems. Freshwater Science, 2018, 37, 673-684.	1.8	29
59	Engineered nanoparticles interact with nutrients to intensify eutrophication in a wetland ecosystem experiment. Ecological Applications, 2018, 28, 1435-1449.	3.8	30
60	Size-Based Differential Transport, Uptake, and Mass Distribution of Ceria (CeO₂) Nanoparticles in Wetland Mesocosms. Environmental Science & Technology, 2018, 52, 9768-9776.	10.0	52
61	Dosing, Not the Dose: Comparing Chronic and Pulsed Silver Nanoparticle Exposures. Environmental Science & Technology, 2018, 52, 10048-10056.	10.0	24
62	Pulling apart the urbanization axis: patterns of physiochemical degradation and biological response across stream ecosystems. Freshwater Science, 2018, 37, 653-672.	1.8	24
63	Soil carbon losses due to higher pH offset vegetation gains due to calcium enrichment in an acid mitigation experiment. Ecology, 2018, 99, 2363-2373.	3.2	10
64	The ecology and economics of restoration: when, what, where, and how to restore ecosystems. Ecology and Society, 2018, 23, .	2.3	58
65	Pyrite Oxidation Drives Exceptionally High Weathering Rates and Geologic CO₂ Release in Mountaintopâ€Mined Landscapes. Global Biogeochemical Cycles, 2018, 32, 1182-1194.	4.9	43
66	Measuring and interpreting relationships between nutrient supply, demand, and limitation. Freshwater Science, 2018, 37, 448-455.	1.8	34
67	Gold nanoparticle biodissolution by a freshwater macrophyte and its associated microbiome. Nature Nanotechnology, 2018, 13, 1072-1077.	31.5	68
68	Understanding how microbiomes influence the systems they inhabit. Nature Microbiology, 2018, 3, 977-982.	13.3	169
69	Salinity effects on greenhouse gas emissions from wetland soils are contingent upon hydrologic setting: a microcosm experiment. Biogeochemistry, 2018, 140, 217-232.	3.5	58
70	Mapping the yearly extent of surface coal mining in Central Appalachia using Landsat and Google Earth Engine. PLoS ONE, 2018, 13, e0197758.	2.5	81
71	The metabolic regimes of 356 rivers in the United States. Scientific Data, 2018, 5, 180292.	5.3	65
72	Evaluating the effects of land-use change and future climate change on vulnerability of coastal landscapes to saltwater intrusion. Elementa, 2018, 6, .	3.2	45

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73	Synthetic chemicals as agents of global change. Frontiers in Ecology and the Environment, 2017, 15, 84-90.	4.0	457
74	Control Points in Ecosystems: Moving Beyond the Hot Spot Hot Moment Concept. Ecosystems, 2017, 20, 665-682.	3.4	284
75	Selenium Ecotoxicology in Freshwater Lakes Receiving Coal Combustion Residual Effluents: A North Carolina Example. Environmental Science & Technology, 2017, 51, 2418-2426.	10.0	36
76	Effects of mountaintop removal coal mining on the diversity and secondary productivity of Appalachian rivers. Limnology and Oceanography, 2017, 62, 1754-1770.	3.1	20
77	Creating a More Perennial Problem? Mountaintop Removal Coal Mining Enhances and Sustains Saline Baseflows of Appalachian Watersheds. Environmental Science & Technology, 2017, 51, 8324-8334.	10.0	43
78	Biofilm mediated uptake of selenium in streams with mountaintop coal mine drainage. Limnologica, 2017, 65, 10-13.	1.5	18
79	Invasive speciesâ€™ leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a metaâ€analysis. New Phytologist, 2017, 213, 128-139.	7.3	69
80	Fertilizer Management and Environmental Factors Drive N₂O and NO₃ Losses in Corn: A Metaâ€Analysis. Soil Science Society of America Journal, 2017, 81, 1191-1202.	2.2	91
81	Fertilizer legacies meet saltwater incursion: challenges and constraints for coastal plain wetland restoration. Elementa, 2017, 5, .	3.2	18
82	Hydroâ€Climatological Influences on Longâ€Term Dissolved Organic Carbon in a Mountain Stream of the Southeastern United States. Journal of Environmental Quality, 2016, 45, 1286-1295.	2.0	14
83	Downstream Dissipation of Storm Flow Heat Pulses: A Case Study and its Landscapeâ€Level Implications. Journal of the American Water Resources Association, 2016, 52, 281-297.	2.4	26
84	Phytotoxicity of soluble graphitic nanofibers to model plant species. Environmental Toxicology and Chemistry, 2016, 35, 2941-2947.	4.3	4
85	Drought and saltwater incursion synergistically reduce dissolved organic carbon export from coastal freshwater wetlands. Biogeochemistry, 2016, 127, 411-426.	3.5	62
86	Outdoor urban nanomaterials: The emergence of a new, integrated, and critical field of study. Science of the Total Environment, 2016, 557-558, 740-753.	8.0	90
87	The Precision Problem in Conservation and Restoration. Trends in Ecology and Evolution, 2016, 31, 820-830.	8.7	81
88	Acid rain mitigation experiment shifts a forested watershed from a net sink to a net source of nitrogen. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7580-7583.	7.1	46
89	Deep Impact: Effects of Mountaintop Mining on Surface Topography, Bedrock Structure, and Downstream Waters. Environmental Science & Technology, 2016, 50, 2064-2074.	10.0	82
90	Frontiers in Ecosystem Ecology from a Community Perspective: The Future is Boundless and Bright. Ecosystems, 2016, 19, 753-770.	3.4	40

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91	A Global View on Future Major Water Engineering Projects. Water Resources Development and Management, 2016, , 47-64.	0.4	6
92	Mechanisms driving the seasonality of catchment scale nitrate export: Evidence for riparian ecohydrologic controls. Water Resources Research, 2015, 51, 3982-3997.	4.2	54
93	From a line in the sand to a landscape of decisions: a hierarchical diversity decision framework for estimating and communicating biodiversity loss along anthropogenic gradients. Methods in Ecology and Evolution, 2015, 6, 795-805.	5.2	4
94	Dissolved organic carbon lability increases with water residence time in the alluvial aquifer of a river floodplain ecosystem. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 693-706.	3.0	28
95	Thermodynamic constraints on the utility of ecological stoichiometry for explaining global biogeochemical patterns. Ecology Letters, 2015, 18, 1049-1056.	6.4	74
96	Microchemical analysis of selenium in otoliths of two West Virginia fishes captured near mountaintop removal coal mining operations. Environmental Toxicology and Chemistry, 2015, 34, 1039-1044.	4.3	6
97	Importance of a Nanoscience Approach in the Understanding of Major Aqueous Contamination Scenarios: Case Study from a Recent Coal Ash Spill. Environmental Science & Technology, 2015, 49, 3375-3382.	10.0	48
98	Reducing Environmental Toxicity of Silver Nanoparticles through Shape Control. Environmental Science & Technology, 2015, 49, 10093-10098.	10.0	83
99	Designer Ecosystems: Incorporating Design Approaches into Applied Ecology. Annual Review of Environment and Resources, 2015, 40, 419-443.	13.4	36
100	Linking microbial community structure and microbial processes: an empirical and conceptual overview. FEMS Microbiology Ecology, 2015, 91, fiv113.	2.7	143
101	Bacterial community responses to a gradient of alkaline mountaintop mine drainage in Central Appalachian streams. ISME Journal, 2015, 9, 1378-1390.	9.8	108
102	Iron clad wetlands: Soil ironâ€sulfur buffering determines coastal wetland response to salt water incursion. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 2209-2219.	3.0	44
103	A generalized optimization model of microbially driven aquatic biogeochemistry based on thermodynamic, kinetic, and stoichiometric ecological theory. Ecological Modelling, 2014, 294, 1-18.	2.5	12
104	The role of vegetation in methane flux to the atmosphere: should vegetation be included as a distinct category in the global methane budget?. Biogeochemistry, 2014, 119, 1-24.	3.5	129
105	Emerging Contaminant or an Old Toxin in Disguise? Silver Nanoparticle Impacts on Ecosystems. Environmental Science & Technology, 2014, 48, 5229-5236.	10.0	138
106	Biogeochemical regime shifts in coastal landscapes: the contrasting effects of saltwater incursion and agricultural pollution on greenhouse gas emissions from a freshwater wetland. Biogeochemistry, 2014, 120, 133-147.	3.5	47
107	Urban stream denitrifier communities are linked to lower functional resistance to multiple stressors associated with urbanization. Hydrobiologia, 2014, 726, 13-23.	2.0	8
108	Floodplain biogeochemical mosaics: A multidimensional view of alluvial soils. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1538-1553.	3.0	36

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109	The interactive effects of excess reactive nitrogen and climate change on aquatic ecosystems and water resources of the United States. Biogeochemistry, 2013, 114, 71-92.	3.5	162
110	Sulfidation of Silver Nanoparticles: Natural Antidote to Their Toxicity. Environmental Science & Technology, 2013, 47, 13440-13448.	10.0	364
111	Cleaner Lakes Are Dirtier Lakes. Science, 2013, 342, 205-206.	12.6	49
112	Streams in the urban heat island: spatial and temporal variability in temperature. Freshwater Science, 2013, 32, 309-326.	1.8	111
113	Using 15N tracers to estimate N2O and N2 emissions from nitrification and denitrification in coastal plain wetlands under contrasting land-uses. Soil Biology and Biochemistry, 2013, 57, 635-643.	8.8	76
114	Impacts of dreissenid mussel invasions on chlorophyll and total phosphorus in 25 lakes in the USA. Freshwater Biology, 2013, 58, 192-206.	2.4	34
115	Droughtâ€induced saltwater incursion leads to increased wetland nitrogen export. Global Change Biology, 2013, 19, 2976-2985.	9.5	143
116	Inland Waters. , 2013, , 275-340.		3
117	Nitrate in watersheds: Straight from soils to streams?. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 291-302.	3.0	53
118	Estimating Above-Ground Carbon Biomass in a Newly Restored Coastal Plain Wetland Using Remote Sensing. PLoS ONE, 2013, 8, e68251.	2.5	19
119	Low Concentrations of Silver Nanoparticles in Biosolids Cause Adverse Ecosystem Responses under Realistic Field Scenario. PLoS ONE, 2013, 8, e57189.	2.5	284
120	The Environmental Price Tag on a Ton of Mountaintop Removal Coal. PLoS ONE, 2013, 8, e73203.	2.5	20
121	Distinguishing dynamics of dissolved organic matter components in a forested stream using kinetic enrichments. Limnology and Oceanography, 2012, 57, 76-89.	3.1	56
122	Greenhouse gas fluxes in southeastern U.S. coastal plain wetlands under contrasting land uses. , 2012, 22, 264-280.		93
123	Longâ€term data reveal patterns and controls on stream water chemistry in a forested stream: Walker Branch, Tennessee. Ecological Monographs, 2012, 82, 367-387.	5.4	44
124	Antimicrobial effects of commercial silver nanoparticles are attenuated in natural streamwater and sediment. Ecotoxicology, 2012, 21, 1867-1877.	2.4	64
125	Development and Application of a Simulation Environment (NEO) for Integrating Empirical and Computational Investigations of System-Level Complexity. , 2012, , .		3
126	How Many Mountains Can We Mine? Assessing the Regional Degradation of Central Appalachian Rivers by Surface Coal Mining. Environmental Science & Technology, 2012, 46, 8115-8122.	10.0	197

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127	Long-Term Transformation and Fate of Manufactured Ag Nanoparticles in a Simulated Large Scale Freshwater Emergent Wetland. Environmental Science & Technology, 2012, 46, 7027-7036.	10.0	351
128	Using environmental variables and soil processes to forecast denitrification potential and nitrous oxide fluxes in coastal plain wetlands across different land uses. Journal of Geophysical Research, 2012, 117, .	3.3	29
129	Roots and fungi accelerate carbon and nitrogen cycling in forests exposed to elevated CO₂. Ecology Letters, 2012, 15, 1042-1049.	6.4	251
130	Effects of Silver Nanoparticle Exposure on Germination and Early Growth of Eleven Wetland Plants. PLoS ONE, 2012, 7, e47674.	2.5	288
131	What is a stream?. Environmental Science & Technology, 2011, 45, 354-359.	10.0	38
132	More than the Ions: The Effects of Silver Nanoparticles on <i>Lolium multiflorum</i>. Environmental Science & Technology, 2011, 45, 2360-2367.	10.0	494
133	River restoration: the fuzzy logic of repairing reaches to reverse catchment scale degradation. , 2011, 21, 1926-1931.		347
134	Effects of urbanization and urban stream restoration on the physical and biological structure of stream ecosystems. , 2011, 21, 1932-1949.		221
135	Thinking outside the channel: modeling nitrogen cycling in networked river ecosystems. Frontiers in Ecology and the Environment, 2011, 9, 229-238.	4.0	104
136	Toxicity Reduction of Polymer-Stabilized Silver Nanoparticles by Sunlight. Journal of Physical Chemistry C, 2011, 115, 4425-4432.	3.1	190
137	Macroinvertebrate community responses to a dewatering disturbance gradient in a restored stream. Hydrology and Earth System Sciences, 2011, 15, 1771-1783.	4.9	7
138	Evaluating River Restoration1. , 2011, 21, 1925-1925.		9
139	Enhanced root exudation induces microbial feedbacks to N cycling in a pine forest under longâ€term CO₂ fumigation. Ecology Letters, 2011, 14, 187-194.	6.4	618
140	Increases in the flux of carbon belowground stimulate nitrogen uptake and sustain the long-term enhancement of forest productivity under elevated CO2. Ecology Letters, 2011, 14, 349-357.	6.4	374
141	The environmental costs of mountaintop mining valley fill operations for aquatic ecosystems of the Central Appalachians. Annals of the New York Academy of Sciences, 2011, 1223, 39-57.	3.8	134
142	Can algal uptake stop NO3âˆ’ pollution?. Nature, 2011, 477, E3-E3.	27.8	10
143	Examining the coupling of carbon and nitrogen cycles in Appalachian streams: the role of dissolved organic nitrogen. Ecology, 2011, 92, 720-732.	3.2	47
144	Testing the Field of Dreams Hypothesis: functional responses to urbanization and restoration in stream ecosystems. , 2011, 21, 1972-1988.		117

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145	Cumulative impacts of mountaintop mining on an Appalachian watershed. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20929-20934.	7.1	221
146	Watershed Urbanization Alters the Composition and Function of Stream Bacterial Communities. PLoS ONE, 2011, 6, e22972.	2.5	57
147	An Ecological Perspective on Nanomaterial Impacts in the Environment. Journal of Environmental Quality, 2010, 39, 1954-1965.	2.0	168
148	Environmental Occurrences, Behavior, Fate, and Ecological Effects of Nanomaterials: An Introduction to the Special Series. Journal of Environmental Quality, 2010, 39, 1867-1874.	2.0	99
149	River restoration, habitat heterogeneity and biodiversity: a failure of theory or practice?. Freshwater Biology, 2010, 55, 205-222.	2.4	715
150	Mountaintop Mining Consequences. Science, 2010, 327, 148-149.	12.6	472
151	Phosphorus export from a restored wetland ecosystem in response to natural and experimental hydrologic fluctuations. Journal of Geophysical Research, 2010, 115, .	3.3	54
152	The Water Quality Consequences of Restoring Wetland Hydrology to a Large Agricultural Watershed in the Southeastern Coastal Plain. Ecosystems, 2010, 13, 1060-1078.	3.4	81
153	Elevated CO2 increases root exudation from loblolly pine (Pinus taeda) seedlings as an N-mediated response. Tree Physiology, 2009, 29, 1513-1523.	3.1	131
154	Decreasing Uncertainties in Assessing Environmental Exposure, Risk, and Ecological Implications of Nanomaterials. Environmental Science & Technology, 2009, 43, 6458-6462.	10.0	311
155	Twenty-six key research questions in urban stream ecology: an assessment of the state of the science. Journal of the North American Benthological Society, 2009, 28, 1080-1098.	3.1	312
156	Restoring biodiversity and ecosystem function: will an integrated approach improve results?. , 2009, , 167-177.		16
157	Hydrologic spiralling: the role of multiple interactive flow paths in stream ecosystems. River Research and Applications, 2008, 24, 1018-1031.	1.7	107
158	Effect of Surfactants and Polymers on Stability and Antibacterial Activity of Silver Nanoparticles (NPs). Journal of Physical Chemistry C, 2008, 112, 5825-5834.	3.1	812
159	Understanding, Managing, and Minimizing Urban Impacts on Surface Water Nitrogen Loading. Annals of the New York Academy of Sciences, 2008, 1134, 61-96.	3.8	147
160	New approach for capturing soluble root exudates in forest soils. Functional Ecology, 2008, 22, 990-999.	3.6	219
161	Twenty years apart: Comparisons of DOM uptake during leaf leachate releases to Hubbard Brook Valley streams in 1979 versus 2000. Journal of Geophysical Research, 2008, 113, .	3.3	37
162	Stream restoration strategies for reducing river nitrogen loads. Frontiers in Ecology and the Environment, 2008, 6, 529-538.	4.0	251

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163	ENVIRONMENTAL CONTROLS ON THE LANDSCAPE-SCALE BIOGEOGRAPHY OF STREAM BACTERIAL COMMUNITIES. Ecology, 2007, 88, 2162-2173.	3.2	216
164	Forest age, wood and nutrient dynamics in headwater streams of the Hubbard Brook Experimental Forest, NH. Earth Surface Processes and Landforms, 2007, 32, 1154-1163.	2.5	53
165	Restoring streams in an urbanizing world. Freshwater Biology, 2007, 52, 738-751.	2.4	383
166	River Restoration in the Twentyâ€First Century: Data and Experiential Knowledge to Inform Future Efforts. Restoration Ecology, 2007, 15, 472-481.	2.9	206
167	Restoring Rivers One Reach at a Time: Results from a Survey of U.S. River Restoration Practitioners. Restoration Ecology, 2007, 15, 482-493.	2.9	382
168	Two Decades of River Restoration in California: What Can We Learn?. Restoration Ecology, 2007, 15, 516-523.	2.9	146
169	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
170	Evaluating Stream Restoration in the Chesapeake Bay Watershed through Practitioner Interviews. Restoration Ecology, 2007, 15, 563-572.	2.9	18
171	Stream Restoration Practices in the Southeastern United States. Restoration Ecology, 2007, 15, 573-583.	2.9	52
172	Global change: The nitrogen cycle and rivers. Water Resources Research, 2006, 42, .	4.2	73
173	Hydroecology and river restoration: Ripe for research and synthesis. Water Resources Research, 2006, 42, .	4.2	124
174	Perspective: The challenge of ecologically sustainable water management. Water Policy, 2006, 8, 475-479.	1.5	57
175	Stream Restoration Databases and Case Studies: A Guide to Information Resources and Their Utility in Advancing the Science and Practice of Restoration. Restoration Ecology, 2006, 14, 177-186.	2.9	31
176	Long-term Effects of Free Air CO2 Enrichment (FACE) on Soil Respiration. Biogeochemistry, 2006, 77, 91-116.	3.5	109
177	The Duke Forest FACE Experiment: CO2 Enrichment of a Loblolly Pine Forest. , 2006, , 197-212.		15
178	ECOLOGY: Synthesizing U.S. River Restoration Efforts. Science, 2005, 308, 636-637.	12.6	1,552
179	Standards for ecologically successful river restoration. Journal of Applied Ecology, 2005, 42, 208-217.	4.0	1,221
180	Can't See the Forest for the Stream? In-stream Processing and Terrestrial Nitrogen Exports. BioScience, 2005, 55, 219.	4.9	178

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181	Restoring watersheds project by project: trends in Chesapeake Bay tributary restoration. Frontiers in Ecology and the Environment, 2005, 3, 259-267.	4.0	92
182	Ecological science and sustainability for the 21st century. Frontiers in Ecology and the Environment, 2005, 3, 4-11.	4.0	127
183	Ecological Science and Sustainability for the 21st Century. Frontiers in Ecology and the Environment, 2005, 3, 4.	4.0	1
184	A multiyear synthesis of soil respiration responses to elevated atmospheric CO2 from four forest FACE experiments. Global Change Biology, 2004, 10, 1027-1042.	9.5	155
185	Buffering an Acidic Stream in New Hampshire with a Silicate Mineral. Restoration Ecology, 2004, 12, 419-428.	2.9	15
186	ECOLOGY: Ecology for a Crowded Planet. Science, 2004, 304, 1251-1252.	12.6	440
187	Controls on periphyton biomass in heterotrophic streams. Freshwater Biology, 2004, 49, 14-27.	2.4	84
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