Paul M Mayer

List of Publications by Year
in descending order

62 papers	3,830 citations	172386 29 h-index	138417 58 g-index
68 all docs	68 docs citations	68 times ranked	4183 citing authors

#	Article	IF	Citations
1	Five state factors control progressive stages of freshwater salinization syndrome. Limnology and Oceanography Letters, 2023, 8, 190-211.	1.6	15
2	Tree trade-offs in stream restoration: impacts on riparian groundwater quality. Urban Ecosystems, 2022, 25, 773-795.	1.1	8
3	Long-term assessment of floodplain reconnection as a stream restoration approach for managing nitrogen in ground and surface waters. Urban Ecosystems, 2022, 25, 879-907.	1.1	12
4	Deep soil nitrogen storage slows nitrate leaching through the vadose zone. Agriculture, Ecosystems and Environment, 2022, 332, 107949.	2.5	23
5	Modeling the hydrologic effects of watershed-scale green roof implementation in the Pacific Northwest, United States. Journal of Environmental Management, 2021, 277, 111418.	3.8	23
6	Sensors track mobilization of â€˜chemical cocktailsâ€™ in streams impacted by road salts in the Chesapeake Bay watershed. Environmental Research Letters, 2021, 16, 035017.	2.2	19
7	Coupling the dual isotopes of water (Î´ ²H and Î´ ¹⁸O) and nitrate (Î´) Tj ETQq1 1 0.784314 rgBT /Overlock 10 groundwater pollution. Environmental Research Letters, 2021, 16, 045008.	2.2	36
8	Effects of shading and composition on green roof media temperature and moisture. Journal of Environmental Management, 2021, 281, 111882.	3.8	14
9	Making â€˜chemical cocktailsâ€™ â€“ Evolution of urban geochemical processes across the periodic table of elements. Applied Geochemistry, 2020, 119, 104632.	1.4	51
10	A framework for optimizing hydrologic performance of green roof media. Ecological Engineering, 2019, 140, 105589.	1.6	20
11	Quantifying the effects of surface conveyance of treated wastewater effluent on groundwater, surface water, and nutrient dynamics in a large river floodplain. Ecological Engineering, 2019, 129, 123-133.	1.6	11
12	Regenerative stormwater conveyance (RSC) for reducing nutrients in urban stormwater runoff depends upon carbon quantity and quality. Science of the Total Environment, 2019, 652, 134-146.	3.9	13
13	Watershed â€˜chemical cocktailsâ€™: forming novel elemental combinations in Anthropocene fresh waters. Biogeochemistry, 2018, 141, 281-305.	1.7	62
14	Embedding co-production and addressing uncertainty in watershed modeling decision-support tools: Successes and challenges. Environmental Modelling and Software, 2018, 109, 368-379.	1.9	28
15	Human-accelerated weathering increases salinization, major ions, and alkalinization in fresh water across land use. Applied Geochemistry, 2017, 83, 121-135.	1.4	147
16	Urban infrastructure influences dissolved organic matter quality and bacterial metabolism in an urban stream network. Freshwater Biology, 2017, 62, 1917-1928.	1.2	13
17	Land Use, Climate, and Water Resourcesâ€”Global Stages of Interaction. Water (Switzerland), 2017, 9, 815.	1.2	344
18	Phosphorus Retention in Stormwater Control Structures across Streamflow in Urban and Suburban Watersheds. Water (Switzerland), 2016, 8, 390.	1.2	28

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19	Stream restoration and sewers impact sources and fluxes of water, carbon, and nutrients in urban watersheds. Hydrology and Earth System Sciences, 2016, 20, 3419-3439.	1.9	34
20	Nutrient Retention in Restored Streams and Rivers: A Global Review and Synthesis. Water (Switzerland), 2016, 8, 116.	1.2	118
21	Urban Evolution: The Role of Water. Water (Switzerland), 2015, 7, 4063-4087.	1.2	72
22	Identifying priority sites for low impact development (LID) in a mixed-use watershed. Landscape and Urban Planning, 2015, 140, 29-41.	3.4	121
23	Long-term impacts of land cover changes on stream channel loss. Science of the Total Environment, 2015, 537, 399-410.	3.9	33
24	Urban Stream Burial Increases Watershed-Scale Nitrate Export. PLoS ONE, 2015, 10, e0132256.	1.1	34
25	Featured Collection Introduction: Riparian Ecosystems and Buffers II. Journal of the American Water Resources Association, 2014, 50, 529-532.	1.0	1
26	Instream Large Wood: Denitrification Hotspots with Low N2O Production. Journal of the American Water Resources Association, 2014, 50, 615-625.	1.0	13
27	Effects of road salts on groundwater and surface water dynamics of sodium and chloride in an urban restored stream. Biogeochemistry, 2014, 121, 149-166.	1.7	99
28	Effects of urban stream burial on nitrogen uptake and ecosystem metabolism: implications for watershed nitrogen and carbon fluxes. Biogeochemistry, 2014, 121, 247-269.	1.7	59
29	Potential nitrogen and carbon processing in a landscape rich in milldam legacy sediments. Biogeochemistry, 2014, 120, 337-357.	1.7	22
30	Effects of urban stream burial on organic matter dynamics and reach scale nitrate retention. Biogeochemistry, 2014, 121, 107-126.	1.7	48
31	Effects of stormwater management and stream restoration on watershed nitrogen retention. Biogeochemistry, 2014, 121, 81-106.	1.7	50
32	Hydrologic Controls on Nitrogen and Phosphorous Dynamics in Relict Oxbow Wetlands Adjacent to an Urban Restored Stream. Journal of the American Water Resources Association, 2014, 50, 1365-1382.	1.0	23
33	Land Use and Climate Variability Amplify Carbon, Nutrient, and Contaminant Pulses: A Review with Management Implications. Journal of the American Water Resources Association, 2014, 50, 585-614.	1.0	162
34	Ecological Engineering Practices for the Reduction of Excess Nitrogen in Human-Influenced Landscapes: A Guide for Watershed Managers. Environmental Management, 2013, 51, 392-413.	1.2	64
35	Influence of natural and novel organic carbon sources on denitrification in forest, degraded urban, and restored streams. Ecological Monographs, 2012, 82, 449-466.	2.4	105
36	Nitrate removal in two relict oxbow urban wetlands: a 15N mass-balance approach. Biogeochemistry, 2012, 111, 647-660.	1.7	24

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37	Microbial biomass and activity in geomorphic features in forested and urban restored and degraded streams. Ecological Engineering, 2012, 38, 1-10.	1.6	32
38	Longitudinal variability in streamwater chemistry and carbon and nitrogen fluxes in restored and degraded urban stream networks. Journal of Environmental Monitoring, 2011, 13, 288-303.	2.1	54
39	Denitrification in Alluvial Wetlands in an Urban Landscape. Journal of Environmental Quality, 2011, 40, 634-646.	1.0	74
40	Denitrification Potential, Root Biomass, and Organic Matter in Degraded and Restored Urban Riparian Zones. Restoration Ecology, 2010, 18, 113-120.	1.4	99
41	Urban ecosystems research joins mainstream ecology. Nature, 2010, 467, 153-153.	13.7	21
42	Introduction to the Featured Collection on Riparian Ecosystems & Buffers¹. Journal of the American Water Resources Association, 2010, 46, 207-210.	1.0	8
43	Denitrification Hotspots and N20 Flux in Fluvial Systems. Nature Precedings, 2010, , .	0.1	0
44	Nitrogen Dynamics at the Groundwaterâ€“Surface Water Interface of a Degraded Urban Stream. Journal of Environmental Quality, 2010, 39, 810-823.	1.0	72
45	Nest construction by a ground-nesting bird represents a potential trade-off between egg crypticity and thermoregulation. Oecologia, 2009, 159, 893-901.	0.9	52
46	Nitrogen uptake and denitrification in restored and unrestored streams in urban Maryland, USA. Aquatic Sciences, 2009, 71, 411-424.	0.6	104
47	Stream restoration strategies for reducing river nitrogen loads. Frontiers in Ecology and the Environment, 2008, 6, 529-538.	1.9	251
48	Ecosystem and decomposer effects on litter dynamics along an old field to old-growth forest successional gradient. Acta Oecologica, 2008, 33, 222-230.	0.5	26
49	Plant community diversity and composition provide little resistance to Juniperus encroachment. Botany, 2008, 86, 1416-1426.	0.5	15
50	When Are Native Species Inappropriate for Conservation Plantings?. Rangelands, 2008, 30, 27-32.	0.9	15
51	EFFECTS OF STREAM RESTORATION ON DENITRIFICATION IN AN URBANIZING WATERSHED. , 2008, 18, 789-804.		222
52	View Points: When Are Native Species Inappropriate for Conservation Plantings?. Rangelands, 2008, 30, .	0.9	0
53	Meta-Analysis of Nitrogen Removal in Riparian Buffers. Journal of Environmental Quality, 2007, 36, 1172-1180.	1.0	463
54	Invasive Grass Alters Litter Decomposition by Influencing Macrodetritivores. Ecosystems, 2005, 8, 200-209.	1.6	21

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55	IMPLICATIONS OF INVASION BY JUNIPERUS VIRGINIANA ON SMALL MAMMALS IN THE SOUTHERN GREAT PLAINS. Journal of Mammalogy, 2005, 86, 1144-1155.	0.6	42
56	N processing within geomorphic structures in urban streams. Journal of the North American Benthological Society, 2005, 24, 613-625.	3.0	155
57	Differential Consumption of Eastern Red Cedar (Juniperus virginiana) by Avian and Mammalian Guilds: Implications for Tree Invasion. American Midland Naturalist, 2004, 152, 255-267.	0.2	33
58	Plankton respiration and biomass as functional indicators of recovery in restored prairie wetlands. Ecological Indicators, 2004, 4, 245-253.	2.6	4
59	Title is missing!. Hydrobiologia, 2001, 443, 177-185.	1.0	13
60	Diatom communities as ecological indicators of recovery in restored prairie wetlands. Wetlands, 1999, 19, 765-774.	0.7	25
61	Status of Piping Plovers in the Great Plains of North America: A Demographic Simulation Model. Conservation Biology, 1993, 7, 581-585.	2.4	53
62	Survival Rates of Artificial Piping Plover Nests in American Avocet Colonies. Condor, 1991, 93, 753-755.	0.7	11