

# Paul M Mayer

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Meta-Analysis of Nitrogen Removal in Riparian Buffers. <i>Journal of Environmental Quality</i> , 2007, 36, 1172-1180.	1.0	463
2	Land Use, Climate, and Water Resourcesâ€™ Global Stages of Interaction. <i>Water (Switzerland)</i> , 2017, 9, 815.	1.2	344
3	Stream restoration strategies for reducing river nitrogen loads. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 529-538.	1.9	251
4	EFFECTS OF STREAM RESTORATION ON DENITRIFICATION IN AN URBANIZING WATERSHED. , 2008, 18, 789-804.		222
5	Land Use and Climate Variability Amplify Carbon, Nutrient, and Contaminant Pulses: A Review with Management Implications. <i>Journal of the American Water Resources Association</i> , 2014, 50, 585-614.	1.0	162
6	N processing within geomorphic structures in urban streams. <i>Journal of the North American Benthological Society</i> , 2005, 24, 613-625.	3.0	155
7	Human-accelerated weathering increases salinization, major ions, and alkalization in fresh water across land use. <i>Applied Geochemistry</i> , 2017, 83, 121-135.	1.4	147
8	Identifying priority sites for low impact development (LID) in a mixed-use watershed. <i>Landscape and Urban Planning</i> , 2015, 140, 29-41.	3.4	121
9	Nutrient Retention in Restored Streams and Rivers: A Global Review and Synthesis. <i>Water (Switzerland)</i> , 2016, 8, 116.	1.2	118
10	Influence of natural and novel organic carbon sources on denitrification in forest, degraded urban, and restored streams. <i>Ecological Monographs</i> , 2012, 82, 449-466.	2.4	105
11	Nitrogen uptake and denitrification in restored and unrestored streams in urban Maryland, USA. <i>Aquatic Sciences</i> , 2009, 71, 411-424.	0.6	104
12	Denitrification Potential, Root Biomass, and Organic Matter in Degraded and Restored Urban Riparian Zones. <i>Restoration Ecology</i> , 2010, 18, 113-120.	1.4	99
13	Effects of road salts on groundwater and surface water dynamics of sodium and chloride in an urban restored stream. <i>Biogeochemistry</i> , 2014, 121, 149-166.	1.7	99
14	Denitrification in Alluvial Wetlands in an Urban Landscape. <i>Journal of Environmental Quality</i> , 2011, 40, 634-646.	1.0	74
15	Nitrogen Dynamics at the Groundwaterâ€™Surface Water Interface of a Degraded Urban Stream. <i>Journal of Environmental Quality</i> , 2010, 39, 810-823.	1.0	72
16	Urban Evolution: The Role of Water. <i>Water (Switzerland)</i> , 2015, 7, 4063-4087.	1.2	72
17	Ecological Engineering Practices for the Reduction of Excess Nitrogen in Human-Influenced Landscapes: A Guide for Watershed Managers. <i>Environmental Management</i> , 2013, 51, 392-413.	1.2	64
18	Watershed â€™chemical cocktailsâ€™: forming novel elemental combinations in Anthropocene fresh waters. <i>Biogeochemistry</i> , 2018, 141, 281-305.	1.7	62

#	ARTICLE	IF	CITATIONS
19	Effects of urban stream burial on nitrogen uptake and ecosystem metabolism: implications for watershed nitrogen and carbon fluxes. <i>Biogeochemistry</i> , 2014, 121, 247-269.	1.7	59
20	Longitudinal variability in streamwater chemistry and carbon and nitrogen fluxes in restored and degraded urban stream networks. <i>Journal of Environmental Monitoring</i> , 2011, 13, 288-303.	2.1	54
21	Status of Piping Plovers in the Great Plains of North America: A Demographic Simulation Model. <i>Conservation Biology</i> , 1993, 7, 581-585.	2.4	53
22	Nest construction by a ground-nesting bird represents a potential trade-off between egg crypticity and thermoregulation. <i>Oecologia</i> , 2009, 159, 893-901.	0.9	52
23	Making "chemical cocktails"™ " Evolution of urban geochemical processes across the periodic table of elements. <i>Applied Geochemistry</i> , 2020, 119, 104632.	1.4	51
24	Effects of stormwater management and stream restoration on watershed nitrogen retention. <i>Biogeochemistry</i> , 2014, 121, 81-106.	1.7	50
25	Effects of urban stream burial on organic matter dynamics and reach scale nitrate retention. <i>Biogeochemistry</i> , 2014, 121, 107-126.	1.7	48
26	IMPLICATIONS OF INVASION BY JUNIPERUS VIRGINIANA ON SMALL MAMMALS IN THE SOUTHERN GREAT PLAINS. <i>Journal of Mammalogy</i> , 2005, 86, 1144-1155.	0.6	42
27	Coupling the dual isotopes of water ( $\delta^2\text{H}$ and $\delta^{18}\text{O}$ ) and nitrate ( $\delta^{15}\text{N}$ ) to groundwater pollution. <i>Environmental Research Letters</i> , 2021, 16, 045008.	2.2	36
28	Stream restoration and sewers impact sources and fluxes of water, carbon, and nutrients in urban watersheds. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3419-3439.	1.9	34
29	Urban Stream Burial Increases Watershed-Scale Nitrate Export. <i>PLoS ONE</i> , 2015, 10, e0132256.	1.1	34
30	Differential Consumption of Eastern Red Cedar ( <i>Juniperus virginiana</i> ) by Avian and Mammalian Guilds: Implications for Tree Invasion. <i>American Midland Naturalist</i> , 2004, 152, 255-267.	0.2	33
31	Long-term impacts of land cover changes on stream channel loss. <i>Science of the Total Environment</i> , 2015, 537, 399-410.	3.9	33
32	Microbial biomass and activity in geomorphic features in forested and urban restored and degraded streams. <i>Ecological Engineering</i> , 2012, 38, 1-10.	1.6	32
33	Phosphorus Retention in Stormwater Control Structures across Streamflow in Urban and Suburban Watersheds. <i>Water (Switzerland)</i> , 2016, 8, 390.	1.2	28
34	Embedding co-production and addressing uncertainty in watershed modeling decision-support tools: Successes and challenges. <i>Environmental Modelling and Software</i> , 2018, 109, 368-379.	1.9	28
35	Ecosystem and decomposer effects on litter dynamics along an old field to old-growth forest successional gradient. <i>Acta Oecologica</i> , 2008, 33, 222-230.	0.5	26
36	Diatom communities as ecological indicators of recovery in restored prairie wetlands. <i>Wetlands</i> , 1999, 19, 765-774.	0.7	25

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37	Nitrate removal in two relict oxbow urban wetlands: a 15N mass-balance approach. <i>Biogeochemistry</i> , 2012, 111, 647-660.	1.7	24
38	Hydrologic Controls on Nitrogen and Phosphorous Dynamics in Relict Oxbow Wetlands Adjacent to an Urban Restored Stream. <i>Journal of the American Water Resources Association</i> , 2014, 50, 1365-1382.	1.0	23
39	Modeling the hydrologic effects of watershed-scale green roof implementation in the Pacific Northwest, United States. <i>Journal of Environmental Management</i> , 2021, 277, 111418.	3.8	23
40	Deep soil nitrogen storage slows nitrate leaching through the vadose zone. <i>Agriculture, Ecosystems and Environment</i> , 2022, 332, 107949.	2.5	23
41	Potential nitrogen and carbon processing in a landscape rich in milldam legacy sediments. <i>Biogeochemistry</i> , 2014, 120, 337-357.	1.7	22
42	Invasive Grass Alters Litter Decomposition by Influencing Macrodetrivores. <i>Ecosystems</i> , 2005, 8, 200-209.	1.6	21
43	Urban ecosystems research joins mainstream ecology. <i>Nature</i> , 2010, 467, 153-153.	13.7	21
44	A framework for optimizing hydrologic performance of green roof media. <i>Ecological Engineering</i> , 2019, 140, 105589.	1.6	20
45	Sensors track mobilization of "chemical cocktails"™ in streams impacted by road salts in the Chesapeake Bay watershed. <i>Environmental Research Letters</i> , 2021, 16, 035017.	2.2	19
46	Plant community diversity and composition provide little resistance to <i>Juniperus</i> encroachment. <i>Botany</i> , 2008, 86, 1416-1426.	0.5	15
47	When Are Native Species Inappropriate for Conservation Plantings?. <i>Rangelands</i> , 2008, 30, 27-32.	0.9	15
48	Five state factors control progressive stages of freshwater salinization syndrome. <i>Limnology and Oceanography Letters</i> , 2023, 8, 190-211.	1.6	15
49	Effects of shading and composition on green roof media temperature and moisture. <i>Journal of Environmental Management</i> , 2021, 281, 111882.	3.8	14
50	Title is missing!. <i>Hydrobiologia</i> , 2001, 443, 177-185.	1.0	13
51	Instream Large Wood: Denitrification Hotspots with Low N <sub>2</sub> O Production. <i>Journal of the American Water Resources Association</i> , 2014, 50, 615-625.	1.0	13
52	Urban infrastructure influences dissolved organic matter quality and bacterial metabolism in an urban stream network. <i>Freshwater Biology</i> , 2017, 62, 1917-1928.	1.2	13
53	Regenerative stormwater conveyance (RSC) for reducing nutrients in urban stormwater runoff depends upon carbon quantity and quality. <i>Science of the Total Environment</i> , 2019, 652, 134-146.	3.9	13
54	Long-term assessment of floodplain reconnection as a stream restoration approach for managing nitrogen in ground and surface waters. <i>Urban Ecosystems</i> , 2022, 25, 879-907.	1.1	12

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55	Survival Rates of Artificial Piping Plover Nests in American Avocet Colonies. Condor, 1991, 93, 753-755.	0.7	11
56	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
57	Introduction to the Featured Collection on Riparian Ecosystems & Buffers <sup>1</sup> . Journal of the American Water Resources Association, 2010, 46, 207-210.	1.0	8
58	Tree trade-offs in stream restoration: impacts on riparian groundwater quality. Urban Ecosystems, 2022, 25, 773-795.	1.1	8
59	Plankton respiration and biomass as functional indicators of recovery in restored prairie wetlands. Ecological Indicators, 2004, 4, 245-253.	2.6	4
60	Featured Collection Introduction: Riparian Ecosystems and Buffers II. Journal of the American Water Resources Association, 2014, 50, 529-532.	1.0	1
61	Denitrification Hotspots and N <sub>2</sub> O Flux in Fluvial Systems. Nature Precedings, 2010, , .	0.1	0
62	View Points: When Are Native Species Inappropriate for Conservation Plantings?. Rangelands, 2008, 30, .	0.9	0