Margaret A Palmer

List of Publications by Year
in descending order

82 papers	12,917 citations	38720 50 h-index	76872 74 g-index
82 all docs	82 docs citations	82 times ranked	13128 citing authors

#	Article	IF	Citations
1	Physical Protection in Aggregates and Organo-Mineral Associations Contribute to Carbon Stabilization at the Transition Zone of Seasonally Saturated Wetlands. Wetlands, 2022, 42, 1.	0.7	5
2	Effects of Using High Resolution Satelliteâ€Based Inundation Time Series to Estimate Methane Fluxes From Forested Wetlands. Geophysical Research Letters, 2021, 48, e2021GL092556.	1.5	20
3	Connecting ecosystem services science and policy in the field. Frontiers in Ecology and the Environment, 2021, 19, 519-525.	1.9	8
4	Seasonal drivers of geographically isolated wetland hydrology in a low-gradient, Coastal Plain landscape. Journal of Hydrology, 2020, 583, 124608.	2.3	26
5	Hydrological Conditions Influence Soil and Methane-Cycling Microbial Populations in Seasonally Saturated Wetlands. Frontiers in Environmental Science, 2020, 8, .	1.5	12
6	Advocating for Science: Amici Curiae Brief of Wetland and Water Scientists in Support of the Clean Water Rule. Wetlands, 2019, 39, 403-414.	0.7	17
7	Linkages between flow regime, biota, and ecosystem processes: Implications for river restoration. Science, 2019, 365, .	6.0	354
8	Dissolved organic matter variations in coastal plain wetland watersheds: The integrated role of hydrological connectivity, land use, and seasonality. Hydrological Processes, 2018, 32, 1664-1681.	1.1	36
9	Landscape metrics as predictors of hydrologic connectivity between Coastal Plain forested wetlands and streams. Hydrological Processes, 2018, 32, 516-532.	1.1	37
10	Benefit relevant indicators: Ecosystem services measures that link ecological and social outcomes. Ecological Indicators, 2018, 85, 1262-1272.	2.6	165
11	Measuring Earth's rivers. Science, 2018, 361, 546-547.	6.0	10
12	Evaluation of infiltrationâ€based stormwater management to restore hydrological processes in urban headwater streams. Hydrological Processes, 2017, 31, 3306-3319.	1.1	35
13	Persistent and Emerging Themes in the Linkage of Theory to Restoration Practice. , 2016, , 517-531.		4
14	Practices for facilitating interdisciplinary synthetic research: the National Socio-Environmental Synthesis Center (SESYNC). Current Opinion in Environmental Sustainability, 2016, 19, 111-122.	3.1	70
15	Socio-Environmental Systems (SES) Research: what have we learned and how can we use this information in future research programs. Current Opinion in Environmental Sustainability, 2016, 19, 160-168.	3.1	89
16	Sustainable water management under future uncertainty with eco-engineering decision scaling. Nature Climate Change, 2016, 6, 25-34.	8.1	357
17	Ecological Theory and Restoration Ecology. , 2016, , 3-26.		43
18	Operationalizing an ecosystem services-based approach for managing river biodiversity. , 2015, , 26-34.		6

#	Article	IF	Citations
19	Microbial responses to changes in flow status in temporary headwater streams: a cross-system comparison. Frontiers in Microbiology, 2015, 6, 522.	1.5	41
20	Aligning restoration science and the law to sustain ecological infrastructure for the future. Frontiers in Ecology and the Environment, 2015, 13, 512-519.	1.9	40
21	Surface Hydrologic Connectivity Between Delmarva Bay Wetlands and Nearby Streams Along a Gradient of Agricultural Alteration. Wetlands, 2015, 35, 41-53.	0.7	50
22	Ecological Restoration of Streams and Rivers: Shifting Strategies and Shifting Goals. Annual Review of Ecology, Evolution, and Systematics, 2014, 45, 247-269.	3.8	334
23	Riverine macrosystems ecology: sensitivity, resistance, and resilience of whole river basins with human alterations. Frontiers in Ecology and the Environment, 2014, 12, 48-58.	1.9	216
24	Dissolved Organic Matter Quality and Bioavailability Changes Across an Urbanization Gradient in Headwater Streams. Environmental Science & Technology, 2014, 48, 7817-7824.	4.6	239
25	Restoration As Mitigation: Analysis of Stream Mitigation for Coal Mining Impacts in Southern Appalachia. Environmental Science & Technology, 2014, 48, 10552-10560.	4.6	65
26	From ecosystems to ecosystem services: Stream restoration as ecological engineering. Ecological Engineering, 2014, 65, 62-70.	1.6	179
27	Environmental flows and water governance: managing sustainable water uses. Current Opinion in Environmental Sustainability, 2013, 5, 341-351.	3.1	198
28	The Heartbeat of Ecosystems. Science, 2012, 336, 1393-1394.	6.0	135
29	Range of variability of channel complexity in urban, restored and forested reference streams. Freshwater Biology, 2012, 57, 1076-1095.	1.2	42
30	River restoration: the fuzzy logic of repairing reaches to reverse catchment scale degradation. , 2011, 21, 1926-1931.		347
31	Assessing stream restoration effectiveness at reducing nitrogen export to downstream waters. , 2011, 21, 1989-2006.		90
32	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.	1.8	134
33	River restoration, habitat heterogeneity and biodiversity: a failure of theory or practice?. Freshwater Biology, 2010, 55, 205-222.	1.2	715
34	Beyond infrastructure. Nature, 2010, 467, 534-535.	13.7	64
35	Altered Ecological Flows Blur Boundaries in Urbanizing Watersheds. Ecology and Society, 2009, 14, .	1.0	27
36	Responseâ€"Environmental Markets. Science, 2009, 326, 1061-1062.	6.0	4

#	Article	IF	Citations
37	Reforming Watershed Restoration: Science in Need of Application and Applications in Need of Science. Estuaries and Coasts, 2009, 32, 1-17.	1.0	182
38	Climate Change and River Ecosystems: Protection and Adaptation Options. Environmental Management, 2009, 44, 1053-1068.	1.2	326
39	Forecasting the combined effects of urbanization and climate change on stream ecosystems: from impacts to management options. Journal of Applied Ecology, 2009, 46, 154-163.	1.9	144
40	Biodiversity, climate change, and ecosystem services. Current Opinion in Environmental Sustainability, 2009, 1, 46-54.	3.1	337
41	Restoration of Ecosystem Services for Environmental Markets. Science, 2009, 325, 575-576.	6.0	257
42	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.	3.0	312
43	Accelerate Synthesis in Ecology and Environmental Sciences. BioScience, 2009, 59, 699-701.	2.2	132
44	Climate change and the world's river basins: anticipating management options. Frontiers in Ecology and the Environment, 2008, 6, 81-89.	1.9	711
45	Stream restoration strategies for reducing river nitrogen loads. Frontiers in Ecology and the Environment, 2008, 6, 529-538.	1.9	251
46	Lakes and streams as sentinels of environmental change in terrestrial and atmospheric processes. Frontiers in Ecology and the Environment, 2008, 6, 247-254.	1.9	348
47	14 Two model scenarios illustrating the effects of land use and climate change on gravel riverbeds of suburban Maryland, U.S.A.. Developments in Earth Surface Processes, 2007, 11, 359-381.	2.8	5
48	Stream Temperature Surges under Urbanization and Climate Change: Data, Models, and Responses. Journal of the American Water Resources Association, 2007, 43, 440-452.	1.0	228
49	River Restoration in the Twentyâ€First Century: Data and Experiential Knowledge to Inform Future Efforts. Restoration Ecology, 2007, 15, 472-481.	1.4	206
50	Restoring Rivers One Reach at a Time: Results from a Survey of U.S. River Restoration Practitioners. Restoration Ecology, 2007, 15, 482-493.	1.4	382
51	Evaluating Stream Restoration in the Chesapeake Bay Watershed through Practitioner Interviews. Restoration Ecology, 2007, 15, 563-572.	1.4	18
52	Hydroecology and river restoration: Ripe for research and synthesis. Water Resources Research, 2006, 42, .	1.7	124
53	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.	1.4	31
54	Aggregate measures of ecosystem services: can we take the pulse of nature?. Frontiers in Ecology and the Environment, 2005, 3, 56-59.	1.9	34

#	Article	IF	Citations
55	Restoring watersheds project by project: trends in Chesapeake Bay tributary restoration. Frontiers in Ecology and the Environment, 2005, 3, 259-267.	1.9	92
56	River restoration. Water Resources Research, 2005, 41, .	1.7	452
57	Ecological science and sustainability for the 21st century. Frontiers in Ecology and the Environment, 2005, 3, 4-11.	1.9	127
58	INVERTEBRATE BIODIVERSITY IN AGRICULTURAL AND URBAN HEADWATER STREAMS: IMPLICATIONS FOR CONSERVATION AND MANAGEMENT. , 2005, 15, 1169-1177.		235
59	ECOLOGY: Ecology for a Crowded Planet. Science, 2004, 304, 1251-1252.	6.0	440
60	Hydro-ecologic responses to land use in small urbanizing watersheds within the Chesapeake Bay watershed. Geophysical Monograph Series, 2004, , 41-60.	0.1	9
61	Bridging Engineering, Ecological, and Geomorphic Science to Enhance Riverine Restoration: Local and National Efforts. , 2004, , 29.		5
62	Ecological Forecasting and the Urbanization of Stream Ecosystems: Challenges for Economists, Hydrologists, Geomorphologists, and Ecologists. Ecosystems, 2003, 6, 659-674.	1.6	88
63	River flows and water wars: emerging science for environmental decision making. Frontiers in Ecology and the Environment, 2003, 1, 298-306.	1.9	416
64	How to Avoid Train Wrecks When Using Science in Environmental Problem Solving. BioScience, 2002, 52, 1127.	2.2	104
65	THE INFLUENCE OF SUBSTRATE HETEROGENEITY ON BIOFILM METABOLISM IN A STREAM ECOSYSTEM. Ecology, 2002, 83, 412-422.	1.5	149
66	DISTURBANCE MODERATES BIODIVERSITYâ€“ECOSYSTEM FUNCTION RELATIONSHIPS: EXPERIMENTAL EVIDENCE FROM CADDISFLIES IN STREAM MESOCOSMS. Ecology, 2002, 83, 1915-1927.	1.5	89
67	Assessing Stream Ecosystem Rehabilitation: Limitations of Community Structure Data. Restoration Ecology, 2002, 10, 156-168.	1.4	76
68	THE INFLUENCE OF SUBSTRATE HETEROGENEITY ON BIOFILM METABOLISM IN A STREAM ECOSYSTEM. , 2002, 83, 412.		6
69	The Function of Marine Critical Transition Zones and the Importance of Sediment Biodiversity. Ecosystems, 2001, 4, 430-451.	1.6	413
70	Biodiversity in Critical Transition Zones between Terrestrial, Freshwater, and Marine Soils and Sediments: Processes, Linkages, and Management Implications. Ecosystems, 2001, 4, 418-420.	1.6	36
71	Managing Critical Transition Zones. Ecosystems, 2001, 4, 452-460.	1.6	73
72	The impact of an introduced bivalve (Corbicula fluminea) on the benthos of a sandy stream. Freshwater Biology, 2001, 46, 491-501.	1.2	93

#	Article	IF	Citations
73	Title is missing!. Hydrobiologia, 2001, 455, 19-27.	1.0	16
74	What drives smallâ€scale spatial patterns in lotic meiofauna communities?. Freshwater Biology, 2000, 44, 109-121.	1.2	78
75	Linking species diversity to the functioning of ecosystems: on the importance of environmental context. Oikos, 2000, 91, 175-183.	1.2	275
76	Title is missing!. Landscape Ecology, 2000, 15, 563-576.	1.9	142
77	Introduced bivalves in freshwater ecosystems: the impact of Corbicula on organic matter dynamics in a sandy stream. Oecologia, 1999, 119, 445-451.	0.9	142
78	Ecological Theory and Community Restoration Ecology. Restoration Ecology, 1997, 5, 291-300.	1.4	846
79	Disturbance and patch-specific responses: the interactive effects of woody debris and floods on lotic invertebrates. Oecologia, 1996, 105, 247-257.	0.9	130
80	Disturbance and the community structure of stream invertebrates: patch-specific effects and the role of refugia. Freshwater Biology, 1995, 34, 343-356.	1.2	74
81	Metazoans from a sandy aquifer: dynamics across a physically and chemically heterogeneous groundwater system. Hydrobiologia, 1994, 287, 195-206.	1.0	9
82	Incorporating lotic meiofauna into our understanding of faunal transport processes. Limnology and Oceanography, 1992, 37, 329-341.	1.6	60