

Philippe G Vidon

List of Publications by Year in descending order

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56
papers

2,766
citations

331259

21
h-index

182168

51
g-index

56
all docs

56
docs citations

56
times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges to incorporating spatially and temporally explicit phenomena (hotspots and hot moments) in denitrification models. <i>Biogeochemistry</i> , 2009, 93, 49-77.	1.7	529
2	Hot Spots and Hot Moments in Riparian Zones: Potential for Improved Water Quality Management. <i>Journal of the American Water Resources Association</i> , 2010, 46, 278-298.	1.0	398
3	The Role of Riparian Vegetation in Protecting and Improving Chemical Water Quality in Streams. <i>Journal of the American Water Resources Association</i> , 2010, 46, 261-277.	1.0	358
4	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
5	The impact of flooding on aquatic ecosystem services. <i>Biogeochemistry</i> , 2018, 141, 439-461.	1.7	142
6	Changes in the character of DOC in streams during storms in two Midwestern watersheds with contrasting land uses. <i>Biogeochemistry</i> , 2008, 88, 257-270.	1.7	135
7	Denitrification and patterns of electron donors and acceptors in eight riparian zones with contrasting hydrogeology. <i>Biogeochemistry</i> , 2004, 71, 259-283.	1.7	115
8	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
9	Phosphorus dynamics in tile-drain flow during storms in the US Midwest. <i>Agricultural Water Management</i> , 2011, 98, 532-540.	2.4	62
10	Watershed "chemical cocktails": forming novel elemental combinations in Anthropocene fresh waters. <i>Biogeochemistry</i> , 2018, 141, 281-305.	1.7	62
11	Unrestricted cattle access to streams and water quality in till landscape of the Midwest. <i>Agricultural Water Management</i> , 2008, 95, 322-330.	2.4	61
12	A LANDSCAPE-BASED APPROACH TO ESTIMATE RIPARIAN HYDROLOGICAL AND NITRATE REMOVAL FUNCTIONS. <i>Journal of the American Water Resources Association</i> , 2006, 42, 1099-1112.	1.0	56
13	Twenty Years of Riparian Zone Research (1997-2017): Where to Next?. <i>Journal of Environmental Quality</i> , 2019, 48, 248-260.	1.0	52
14	Towards a better understanding of riparian zone water table response to precipitation: surface water infiltration, hillslope contribution or pressure wave processes?. <i>Hydrological Processes</i> , 2012, 26, 3207-3215.	1.1	51
15	Before the storm: antecedent conditions as regulators of hydrologic and biogeochemical response to extreme climate events. <i>Biogeochemistry</i> , 2018, 141, 487-501.	1.7	38
16	Seasonal and geomorphic controls on N and P removal in riparian zones of the US Midwest. <i>Biogeochemistry</i> , 2014, 119, 245-257.	1.7	31
17	Long-term nitrate removal in a stream riparian zone. <i>Biogeochemistry</i> , 2014, 121, 425-439.	1.7	30
18	Hydrobiogeochemical Controls on Riparian Nutrient and Greenhouse Gas Dynamics: 10 Years Post-Restoration. <i>Journal of the American Water Resources Association</i> , 2014, 50, 639-652.	1.0	30

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19	In the path of the Hurricane: impact of Hurricane Irene and Tropical Storm Lee on watershed hydrology and biogeochemistry from North Carolina to Maine, USA. <i>Biogeochemistry</i> , 2018, 141, 351-364.	1.7	26
20	Denitrification and patterns of electron donors and acceptors in eight riparian zones with contrasting hydrogeology. <i>Biogeochemistry</i> , 2005, 71, 259-283.	1.7	22
21	Denitrification along the Stream-Riparian Continuum in Restored and Unrestored Agricultural Streams. <i>Journal of Environmental Quality</i> , 2017, 46, 1010-1019.	1.0	22
22	Restoring stream ecosystem function with beaver dam analogues: Let's not make the same mistake twice. <i>Hydrological Processes</i> , 2019, 33, 174-177.	1.1	22
23	Isoproturon movement and dissipation in undisturbed soil cores from a grassed buffer strip. <i>Agronomy for Sustainable Development</i> , 2000, 20, 297-307.	0.8	22
24	Riparian zone management and environmental quality: a multi-contaminant challenge. <i>Hydrological Processes</i> , 2010, 24, 1532-1535.	1.1	21
25	Impact of Hurricane Irene and Tropical Storm Lee on riparian zone hydrology and biogeochemistry. <i>Hydrological Processes</i> , 2017, 31, 476-488.	1.1	19
26	Impact of seasonal changes in stream metabolism on nitrate concentrations in an urban stream. <i>Biogeochemistry</i> , 2017, 133, 317-331.	1.7	18
27	Estimating greenhouse gas emissions at the soil-atmosphere interface in forested watersheds of the US Northeast. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 295.	1.3	14
28	Not all riparian zones are wetlands: Understanding the limitation of the "wetland bias" problem. <i>Hydrological Processes</i> , 2017, 31, 2125-2127.	1.1	14
29	Beaver dam analogues drive heterogeneous groundwater-surface water interactions. <i>Hydrological Processes</i> , 2020, 34, 5340-5353.	1.1	14
30	Field hydrologists needed: a call for young hydrologists to (re)focus on field studies. <i>Hydrological Processes</i> , 2015, 29, 5478-5480.	1.1	12
31	Phosphorus Transport along the Cropland-Riparian-Stream Continuum in Cold Climate Agroecosystems: A Review. <i>Soil Systems</i> , 2021, 5, 15.	1.0	12
32	Mercury dynamics in groundwater across three distinct riparian zone types of the US Midwest. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 2131.	1.7	10
33	Valuation of ecosystem services of commercial shrub willow (<i>Salix</i> spp.) woody biomass crops. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 137.	1.3	10
34	Impact of Shrub Willow (<i>Salix</i> spp.) as a Potential Bioenergy Feedstock on Water Quality and Greenhouse Gas Emissions. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	10
35	Impact of sampling strategy on stream load estimates in till landscape of the Midwest. <i>Environmental Monitoring and Assessment</i> , 2009, 159, 367-379.	1.3	9
36	Impact of Stream Geomorphology on Greenhouse Gas Concentration in a New York Mountain Stream. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	9

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37	Storm phosphorus concentrations and fluxes in artificially drained landscapes of the US Midwest. <i>Agricultural Sciences</i> , 2012, 03, 474-485.	0.2	9
38	Landscape geomorphic characteristic impacts on greenhouse gas fluxes in exposed stream and riparian sediments. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 844-853.	1.7	8
39	Changes in riparian hydrology and biogeochemistry following storm events at a restored agricultural stream. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 677-691.	1.7	8
40	Tree trade-offs in stream restoration: impacts on riparian groundwater quality. <i>Urban Ecosystems</i> , 2022, 25, 773-795.	1.1	8
41	Testing a Simple Field Method for Assessing Nitrate Removal in Riparian Zones ¹. <i>Journal of the American Water Resources Association</i> , 2008, 44, 523-534.	1.0	7
42	Mercury proxies and mercury dynamics in a forested watershed of the US Northeast. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 7475-7488.	1.3	7
43	Taking the pulse of stream restoration practices: moving towards healthier streams. <i>Hydrological Processes</i> , 2014, 28, 398-400.	1.1	7
44	RZ-TRADEOFF: A New Model to Estimate Riparian Water and Air Quality Functions. <i>Water (Switzerland)</i> , 2019, 11, 769.	1.2	7
45	Stream and floodplain restoration impacts riparian zone hydrology of agricultural streams. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 85.	1.3	7
46	Riparian seasonal water quality and greenhouse gas dynamics following stream restoration. <i>Biogeochemistry</i> , 2021, 156, 453-474.	1.7	6
47	Evaluation of AnnAGNPS Model for Runoff Simulation on Watersheds from Glaciated Landscape of USA Midwest and Northeast. <i>Water (Switzerland)</i> , 2020, 12, 3525.	1.2	5
48	Evaluating the geomorphic channel response to beaver dam analog installation using unoccupied aerial vehicles. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2349-2364.	1.2	5
49	Impact of beaver dam analogues on hydrology in a <sc>semi-arid</sc> floodplain. <i>Hydrological Processes</i> , 2021, 35, e14275.	1.1	5
50	Interacting drivers and their tradeoffs for predicting denitrification potential across a strong urban to rural gradient within heterogeneous landscapes. <i>Journal of Environmental Management</i> , 2021, 294, 113021.	3.8	4
51	A new approach to generalizing riparian water and air quality function across regions. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 282.	1.3	3
52	Short-term impact of beaver dam analogues on streambank erosion and deposition in <sc>Semi-arid</sc> landscapes of the Western <sc>USA</sc>. <i>River Research and Applications</i> , 2021, 37, 1032-1037.	0.7	3
53	Impact of Urbanization on Large Wood Sizes and Associated Recruitment Zones. <i>Hydrology</i> , 2020, 7, 89.	1.3	2
54	Featured Collection Introduction: Riparian Ecosystems and Buffers II. <i>Journal of the American Water Resources Association</i> , 2014, 50, 529-532.	1.0	1

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55	Impact of Riparian and Stream Restoration on Denitrification in Geomorphic Features of Agricultural Streams. Transactions of the ASABE, 2020, 63, 1157-1167.	1.1	1
56	Riparian Zone Nitrogen Management through the Development of the Riparian Ecosystem Management Model (REMM) in a Formerly Glaciated Watershed of the US Northeast. Agriculture (Switzerland), 2021, 11, 743.	1.4	1