Patrick Meire

List of Publications by Year
in descending order

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201 papers	9,218 citations	41344 49 h-index	53230 85 g-index
204 all docs	204 docs citations	204 times ranked	9559 citing authors

#	Article	IF	Citations
1	Ecosystem-based coastal defence in the face of global change. Nature, 2013, 504, 79-83.	27.8	1,178
2	Large-scale spatial patterns in estuaries: estuarine macrobenthic communities in the Schelde estuary, NW Europe. Estuarine, Coastal and Shelf Science, 2003, 57, 335-355.	2.1	226
3	The Scheldt estuary: a description of a changing ecosystem. Hydrobiologia, 2005, 540, 1-11.	2.0	218
4	Silica uptake in aquatic and wetland macrophytes: a strategic choice between silica, lignin and cellulose?. New Phytologist, 2010, 186, 385-391.	7.3	207
5	Marineâ€terminating glaciers sustain high productivity in Greenland fjords. Global Change Biology, 2017, 23, 5344-5357.	9.5	192
6	Spatial and temporal factors controlling short-term sedimentation in a salt and freshwater tidal marsh, Scheldt estuary, Belgium, SW Netherlands. Earth Surface Processes and Landforms, 2003, 28, 739-755.	2.5	178
7	Longâ€term change in dissolved inorganic nutrients in the heterotrophic Scheldt estuary (Belgium, The) Tj ETQq1 1 0.784314 rgBT /Ove	3.1	177
8	Are ecosystem services adequately quantified?. Journal of Applied Ecology, 2017, 54, 358-370.	4.0	177
9	Modelling estuarine variations in tidal marsh sedimentation: response to changing sea level and suspended sediment concentrations. Marine Geology, 2004, 212, 1-19.	2.1	173
10	Modelling long-term tidal marsh growth under changing tidal conditions and suspended sediment concentrations, Scheldt estuary, Belgium. Marine Geology, 2003, 193, 151-169.	2.1	172
11	The impact of increased oxygen conditions on metal-contaminated sediments part I: Effects on redox status, sediment geochemistry and metal bioavailability. Water Research, 2012, 46, 2205-2214.	11.3	170
12	Macrobenthic species response surfaces along estuarine gradients: prediction by logistic regression. Marine Ecology - Progress Series, 2002, 225, 79-95.	1.9	160
13	The Global Biogeochemical Silicon Cycle. Silicon, 2009, 1, 207-213.	3.3	153
14	Agricultural silica harvest: have humans created a new loop in the global silica cycle?. Frontiers in Ecology and the Environment, 2012, 10, 243-248.	4.0	142
15	Flow interaction with dynamic vegetation patches: Implications for biogeomorphic evolution of a tidal landscape. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	138
16	Transient or steadyâ€state? Using vertical temperature profiles to quantify groundwaterâ€“surface water exchange. Hydrological Processes, 2009, 23, 2165-2177.	2.6	120
17	Spatial and temporal patterns of water quality along the estuarine salinity gradient of the Scheldt estuary (Belgium and The Netherlands): results of an integrated monitoring approach. Hydrobiologia, 2005, 540, 29-45.	2.0	110
18	Selfâ€organised patchiness and scaleâ€dependent bioâ€geomorphic feedbacks in aquatic river vegetation. Ecography, 2012, 35, 760-768.	4.5	106

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19	A simple thermal mapping method for seasonal spatial patterns of groundwaterâ€“surface water interaction. Journal of Hydrology, 2011, 397, 93-104.	5.4	100
20	Soybean Trade: Balancing Environmental and Socio-Economic Impacts of an Intercontinental Market. PLoS ONE, 2016, 11, e0155222.	2.5	100
21	Mapping ecosystem service flows with land cover scoring maps for data-scarce regions. Ecosystem Services, 2015, 13, 28-40.	5.4	91
22	High export of dissolved silica from the Greenland Ice Sheet. Geophysical Research Letters, 2016, 43, 9173-9182.	4.0	89
23	Development of sediment quality guidelines for freshwater ecosystems. Journal of Soils and Sediments, 2011, 11, 504-517.	3.0	87
24	Modeling growth and carbon allocation in two reed beds (Phragmites australis) in the Scheldt estuary. Aquatic Botany, 2004, 79, 211-234.	1.6	86
25	Biogenic silica in tidal freshwater marsh sediments and vegetation (Schelde estuary, Belgium). Marine Ecology - Progress Series, 2005, 303, 51-60.	1.9	82
26	Nitrogen processing in a tidal freshwater marsh: A whole-ecosystem ¹⁵ N labeling study. Limnology and Oceanography, 2005, 50, 1945-1959.	3.1	80
27	The Future of Freshwater Macrophytes in a Changing World: Dissolved Organic Carbon Quantity and Quality and Its Interactions With Macrophytes. Frontiers in Plant Science, 2018, 9, 629.	3.6	80
28	Phragmites australis and silica cycling in tidal wetlands. Aquatic Botany, 2007, 87, 134-140.	1.6	77
29	Determination of the Manning roughness coefficient influenced by vegetation in the river Aa and Biebrza river. Environmental Fluid Mechanics, 2009, 9, 549-567.	1.6	74
30	Zonation of intertidal macrobenthos in the estuaries of Schelde and Ems. Aquatic Ecology, 1998, 32, 53-71.	1.5	72
31	Enhanced Weathering and related element fluxes â€“ a cropland mesocosm approach. Biogeosciences, 2020, 17, 103-119.	3.3	68
32	Tidal marshes and biogenic silica recycling at the land-sea interface. Limnology and Oceanography, 2006, 51, 838-846.	3.1	66
33	Observations of tidal and storm surge attenuation in a large tidal marsh. Limnology and Oceanography, 2015, 60, 1371-1381.	3.1	66
34	Effects of Wind Waves versus Ship Waves on Tidal Marsh Plants: A Flume Study on Different Life Stages of Scirpus maritimus. PLoS ONE, 2015, 10, e0118687.	2.5	66
35	Possible effects of climate change on estuarine nutrient fluxes: a case study in the highly nutrified Schelde estuary (Belgium, The Netherlands). Estuarine, Coastal and Shelf Science, 2004, 60, 649-661.	2.1	64
36	Sedimentation and response to sea-level rise of a restored marsh with reduced tidal exchange: Comparison with a natural tidal marsh. Geomorphology, 2011, 130, 115-126.	2.6	64

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37	Flood control areas as an opportunity to restore estuarine habitat. Ecological Engineering, 2006, 28, 55-63.	3.6	62
38	Silicon pools in human impacted soils of temperate zones. Global Biogeochemical Cycles, 2015, 29, 1439-1450.	4.9	62
39	Coastal flood protection by a combined nature-based and engineering approach: Modeling the effects of marsh geometry and surrounding dikes. Estuarine, Coastal and Shelf Science, 2016, 175, 34-45.	2.1	62
40	Tuning the tide: creating ecological conditions for tidal marsh development in a flood control area. Hydrobiologia, 2007, 588, 31-43.	2.0	60
41	Statistical modeling of seasonal and environmental influences on the population dynamics of an estuarine fish community. Marine Biology, 2004, 145, 1033-1042.	1.5	58
42	Ecological management of aquatic plants: effects in lowland streams. Hydrobiologia, 2006, 570, 205-210.	2.0	58
43	Quantification of the impact of macrophytes on oxygen dynamics and nitrogen retention in a vegetated lowland river. Physics and Chemistry of the Earth, 2011, 36, 479-489.	2.9	58
44	Bioâ€geomorphic effects on tidal channel evolution: impact of vegetation establishment and tidal prism change. Earth Surface Processes and Landforms, 2013, 38, 122-132.	2.5	58
45	Simulating the long-term development of leveeâ€“basin topography on tidal marshes. Geomorphology, 2004, 63, 39-55.	2.6	56
46	Fast-Growing, Aerobic, Heterotrophic Bacteria from the Rhizosphere of Young Sugar Beet Plants. Applied and Environmental Microbiology, 1990, 56, 3375-3381.	3.1	56
47	Tradeâ€off between drag reduction and light interception of macrophytes: comparing five aquatic plants with contrasting morphology. Functional Ecology, 2011, 25, 1197-1205.	3.6	54
48	EBI: An index for delivery of ecosystem service bundles. Ecological Indicators, 2014, 37, 252-265.	6.3	53
49	Spring bloom dynamics in a subarctic fjord influenced by tidewater outlet glaciers (GodthÃ¥bsfjord,) Tj ETQq1 1 0.784314 rgBT /Over	3.0	53
50	Dune dynamics safeguard ecosystem services. Ocean and Coastal Management, 2017, 149, 148-158.	4.4	51
51	The impact of land use and spatial mediated processes on the water quality in a river system. Science of the Total Environment, 2017, 601-602, 365-373.	8.0	50
52	Role of intertidal wetlands for tidal and storm tide attenuation along a confined estuary: a model study. Natural Hazards and Earth System Sciences, 2015, 15, 1659-1675.	3.6	49
53	A GIS plug-in for Bayesian belief networks: Towards a transparent software framework to assess and visualise uncertainties in ecosystem service mapping. Environmental Modelling and Software, 2015, 71, 30-38.	4.5	48
54	Waterlogging and canopy interact to control species recruitment in floodplains. Functional Ecology, 2010, 24, 918-926.	3.6	47

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55	A macro-tidal freshwater ecosystem recovering from hypereutrophication: the Schelde case study. Biogeosciences, 2009, 6, 2935-2948.	3.3	46
56	Pedogenic and biogenic alkalineâ€extracted silicon distributions along a temperate landâ€use gradient. European Journal of Soil Science, 2014, 65, 693-705.	3.9	45
57	Freshwater marshes as dissolved silica recyclers in an estuarine environment (Schelde estuary,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	44
58	Ecosystem Engineering by Plants on Wave-Exposed Intertidal Flats Is Governed by Relationships between Effect and Response Traits. PLoS ONE, 2015, 10, e0138086.	2.5	44
59	A hierarchical approach on groundwater-surface water interaction in wetlands along the upper Biebrza River, Poland. Hydrology and Earth System Sciences, 2012, 16, 2329-2346.	4.9	43
60	A new technique for tidal habitat restoration: Evaluation of its hydrological potentials. Ecological Engineering, 2011, 37, 1849-1858.	3.6	42
61	The impact of increased oxygen conditions on metal-contaminated sediments part II: Effects on metal accumulation and toxicity in aquatic invertebrates. Water Research, 2012, 46, 3387-3397.	11.3	42
62	A web application to support the quantification and valuation of ecosystem services. Environmental Impact Assessment Review, 2013, 40, 65-74.	9.2	42
63	Response of zooplankton to improving water quality in the Scheldt estuary (Belgium). Estuarine, Coastal and Shelf Science, 2011, 93, 47-57.	2.1	41
64	Economic valuation of ecosystem services, a case study for aquatic vegetation removal in the Nete catchment (Belgium). Ecosystem Services, 2014, 7, 46-56.	5.4	41
65	The Impact of Policy Instruments on Soil Multifunctionality in the European Union. Sustainability, 2017, 9, 407.	3.2	41
66	Restoration of tidal freshwater vegetation using controlled reduced tide (CRT) along the Schelde Estuary (Belgium). Estuarine, Coastal and Shelf Science, 2009, 85, 368-376.	2.1	40
67	Alkalineâ€extractable silicon from land to ocean: A challenge for biogenic silicon determination. Limnology and Oceanography: Methods, 2015, 13, 329-344.	2.0	40
68	Landscape-scale flow patterns over a vegetated tidal marsh and an unvegetated tidal flat: Implications for the landform properties of the intertidal floodplain. Geomorphology, 2015, 231, 40-52.	2.6	40
69	Aligning biodiversity conservation and ecosystem services in spatial planning: Focus on ecosystem processes. Science of the Total Environment, 2020, 712, 136350.	8.0	40
70	Evaluation of the accuracy of land-use based ecosystem service assessments for different thematic resolutions. Journal of Environmental Management, 2015, 156, 41-51.	7.8	38
71	Coping with waves: Plasticity in tidal marsh plants as selfâ€adapting coastal ecosystem engineers. Limnology and Oceanography, 2018, 63, 799-815.	3.1	38
72	Siliconâ€“vegetation interaction in multiple ecosystems: a review. Journal of Vegetation Science, 2014, 25, 301-313.	2.2	37

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73	Can Acid Volatile Sulfides (AVS) Influence Metal Concentrations in the Macrophyte Myriophyllum aquaticum?. Environmental Science & Technology, 2012, 46, 9129-9137.	10.0	36
74	Dynamics of biogenic Si in freshwater tidal marshes: Si regeneration and retention in marsh sediments (Scheldt estuary). Biogeochemistry, 2007, 82, 41-53.	3.5	35
75	Importance of mowing and flood frequency in promoting species richness in restored floodplains. Journal of Applied Ecology, 2008, 45, 1780-1789.	4.0	35
76	Using dimension reduction PCA to identify ecosystem service bundles. Ecological Indicators, 2018, 87, 209-260.	6.3	35
77	Submerged macrophytes avoiding a negative feedback in reaction to hydrodynamic stress. Limnologica, 2013, 43, 371-380.	1.5	34
78	Understanding watershed dynamics and impacts of climate change and variability in the Pangani River Basin, Tanzania. Ecohydrology and Hydrobiology, 2015, 15, 26-38.	2.3	34
79	Vegetation and proximity to the river control amorphous silica storage in a riparian wetland (Biebrza) Tj ETQq1 1 0.784314 rgBT /Ove	3.3	33
80	Effects of macrophytes on ecosystem metabolism and net nutrient uptake in a groundwater fed lowland river. Science of the Total Environment, 2020, 721, 137620.	8.0	33
81	The subtidal macrobenthos in the mesohaline part of the Schelde Estuary (Belgium): influenced by man?. Journal of the Marine Biological Association of the United Kingdom, 2000, 80, 587-597.	0.8	32
82	Ecohydrological status of Lake Tana â€" a shallow highland lake in the Blue Nile (Abbay) basin in Ethiopia: review. Ecohydrology and Hydrobiology, 2010, 10, 109-122.	2.3	32
83	Hydrodynamically mediated macrophyte silica dynamics. Plant Biology, 2012, 14, 997-1005.	3.8	32
84	Microhabitat use and preferences of the endangered Cottus gobio in the River Voer, Belgium. Journal of Fish Biology, 2005, 67, 897-909.	1.6	30
85	Impact of flooding on potential and realised grassland species richness. Plant Ecology, 2007, 194, 85-98.	1.6	30
86	Benthic variability in intertidal soft-sediments in the mesohaline part of the Schelde estuary. Hydrobiologia, 2005, 540, 197-216.	2.0	29
87	Resistance and reconfiguration of natural flexible submerged vegetation in hydrodynamic river modelling. Environmental Fluid Mechanics, 2016, 16, 245-265.	1.6	29
88	Impact of intertidal area characteristics on estuarine tidal hydrodynamics: A modelling study for the Scheldt Estuary. Estuarine, Coastal and Shelf Science, 2017, 198, 138-155.	2.1	29
89	A modeling approach to assess coastal management effects on benthic habitat quality: A case study on coastal defense and navigability. Estuarine, Coastal and Shelf Science, 2017, 184, 67-82.	2.1	29
90	Towards more predictive and interdisciplinary climate change ecosystem experiments. Nature Climate Change, 2019, 9, 809-816.	18.8	28

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91	Ecological Rehabilitation of the Schelde Estuary (The Netherlands-Belgium; Northwest Europe): Linking Ecology, Safety Against Floods, and Accessibility for Port Development. Restoration Ecology, 2005, 13, 204-214.	2.9	27
92	Ammonium Transformation in a Nitrogen-Rich Tidal Freshwater Marsh. Biogeochemistry, 2006, 80, 289-298.	3.5	27
93	Spatiotemporal aspects of silica buffering in restored tidal marshes. Estuarine, Coastal and Shelf Science, 2008, 80, 42-52.	2.1	27
94	No signs of thermal acclimation of heterotrophic respiration from peat soils exposed to different water levels. Soil Biology and Biochemistry, 2009, 41, 2014-2016.	8.8	27
95	The effect of waste water treatment on river metal concentrations: removal or enrichment?. Journal of Soils and Sediments, 2011, 11, 364-372.	3.0	27
96	Willingness to pay for watershed conservation: are we applying the right paradigm?. Ecohydrology and Hydrobiology, 2017, 17, 33-45.	2.3	27
97	Hippos (Hippopotamus amphibius): The animal silicon pump. Science Advances, 2019, 5, eaav0395.	10.3	27
98	Macrophyteâ€specific effects on epiphyton quality and quantity and resulting effects on grazing macroinvertebrates. Freshwater Biology, 2019, 64, 1131-1142.	2.4	27
99	Quantifying critical conditions for seaward expansion of tidal marshes: A transplantation experiment. Estuarine, Coastal and Shelf Science, 2016, 169, 227-237.	2.1	26
100	Silicon Affects Nutrient Content and Ratios of Wetland Plants. Silicon, 2016, 8, 479-485.	3.3	26
101	Different morphology of Nuphar lutea in two contrasting aquatic environments and its effect on ecosystem engineering. Earth Surface Processes and Landforms, 2014, 39, 2100-2108.	2.5	25
102	Unravelling the controls of lateral expansion and elevation change of pioneer tidal marshes. Geomorphology, 2016, 274, 106-115.	2.6	25
103	The role of macrophyte structural complexity and water flow velocity in determining the epiphytic macroinvertebrate community composition in a lowland stream. Hydrobiologia, 2018, 806, 157-173.	2.0	25
104	Relation between resistance characteristics due to aquatic weed growth and the hydraulic capacity of the river Aa. River Research and Applications, 2009, 25, 1287-1303.	1.7	24
105	Grazers: biocatalysts of terrestrial silica cycling. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20132083.	2.6	24
106	Depth Estimation of Submerged Aquatic Vegetation in Clear Water Streams Using Low-Altitude Optical Remote Sensing. Sensors, 2015, 15, 25287-25312.	3.8	24
107	Fire enhances solubility of biogenic silica. Science of the Total Environment, 2016, 572, 1289-1296.	8.0	24
108	Determination of plant silicon content with near infrared reflectance spectroscopy. Frontiers in Plant Science, 2014, 5, 496.	3.6	23

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109	Detecting, mapping and classifying wetland fragments at a landscape scale. Remote Sensing Applications: Society and Environment, 2017, 8, 212-223.	1.5	23
110	Estuaries as Filters: The Role of Tidal Marshes in Trace Metal Removal. PLoS ONE, 2013, 8, e70381.	2.5	23
111	Including Riparian Vegetation in the Definition of Morphologic Reference Conditions for Large Rivers: A Case Study for Europeâ€™s Western Plains. Environmental Management, 2008, 41, 625-639.	2.7	22
112	A trade-off between dissolved and amorphous silica transport during peak flow events (Scheldt river) Tj ETQq0 0 0 rgBT /Overlock 10 Tf catchments. Biogeochemistry, 2011, 106, 475-487.	3.5	22
113	Evolution of sediment metal concentrations in a tidal marsh restoration project. Science of the Total Environment, 2012, 419, 187-195.	8.0	22
114	Detecting ecosystem service trade-offs and synergies: A practice-oriented application in four industrialized estuaries. Ecosystem Services, 2015, 16, 378-389.	5.4	22
115	Towards a global arctic-alpine model for Near-infrared reflectance spectroscopy (NIRS) predictions of foliar nitrogen, phosphorus and carbon content. Scientific Reports, 2019, 9, 8259.	3.3	21
116	Sustainability perspectives and spatial patterns of multiple ecosystem services in the Venice lagoon: Possible roles in the implementation of the EU Water Framework Directive. Ecological Indicators, 2019, 98, 556-567.	6.3	21
117	Bioaccumulation of DDT and other organochlorine pesticides in amphibians from two conservation areas within malaria risk regions of South Africa. Chemosphere, 2021, 274, 129956.	8.2	21
118	Tussocks: Biogenic Silica Hot-Spots in a Riparian Wetland. Wetlands, 2012, 32, 1115-1124.	1.5	20
119	Nitrogen assimilation and short term retention in a nutrient-rich tidal freshwater marsh â€“ a whole ecosystem ¹⁵N enrichment study. Biogeosciences, 2007, 4, 11-26.	3.3	19
120	Field estimates of floc dynamics and settling velocities in a tidal creek with significant along-channel gradients in velocity and SPM. Estuarine, Coastal and Shelf Science, 2017, 197, 221-235.	2.1	19
121	Ecosystem services provided by South African palmiet wetlands: A case for investment in strategic water source areas. Ecological Indicators, 2019, 101, 71-80.	6.3	19
122	Pathological investigations on guillemots (Uria aalge) stranded on the Belgian coast during the winter of 1993â€“94. Veterinary Record, 1998, 143, 387-390.	0.3	18
123	Spatial spring distribution of the copepod Eurytemora affinis (Copepoda, Calanoida) in a restoring estuary, the Scheldt (Belgium). Estuarine, Coastal and Shelf Science, 2010, 88, 116-124.	2.1	18
124	Landscape cultivation alters Î´30Si signature in terrestrial ecosystems. Scientific Reports, 2015, 5, 7732.	3.3	18
125	Thigmomorphogenetic responses of an aquatic macrophyte to hydrodynamic stress. Frontiers in Plant Science, 2015, 6, 43.	3.6	18
126	Tidal Marsh Restoration Design Affects Feedbacks Between Inundation and Elevation Change. Estuaries and Coasts, 2018, 41, 613-625.	2.2	18

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127	Impact of habitat diversity on the sampling effort required for the assessment of river fish communities and IBI. Hydrobiologia, 2010, 644, 169-183.	2.0	17
128	Rotifers in the Schelde estuary (Belgium): a test of taxonomic relevance. Journal of Plankton Research, 2010, 32, 981-997.	1.8	17
129	Bimodality in head shape in European eel. Journal of Zoology, 2011, 285, 230-238.	1.7	17
130	Effects of mowing cessation and hydrology on plant trait distribution in natural fen meadows. Acta Oecologica, 2012, 39, 117-127.	1.1	17
131	Exploring watershed conservation and water governance along Pangani River Basin, Tanzania. Land Use Policy, 2015, 48, 351-361.	5.6	17
132	Implications of climate change for submerged macrophytes: effects of CO2, flow velocity and nutrient concentration on Berula erecta. Aquatic Ecology, 2020, 54, 775-793.	1.5	17
133	The role of a freshwater tidal area with controlled reduced tide as feeding habitat for European eel (Anguilla anguilla, L.). Journal of Applied Ichthyology, 2012, 28, 572-581.	0.7	16
134	Water displacement by sewer infrastructure in the Grote Nete catchment, Belgium, and its hydrological regime effects. Hydrology and Earth System Sciences, 2014, 18, 1119-1136.	4.9	16
135	Effects of contrasting wave conditions on scour and drag on pioneer tidal marsh plants. Geomorphology, 2016, 255, 49-62.	2.6	16
136	What is a macrophyte patch? Patch identification in aquatic ecosystems and guidelines for consistent delineation. Ecohydrology and Hydrobiology, 2018, 18, 1-9.	2.3	16
137	Critical transitions in suspended sediment dynamics in a temperate meso-tidal estuary. Scientific Reports, 2019, 9, 12745.	3.3	16
138	Ecohydrology for Integrated Water Resources Management in the Nile Basin. Ecohydrology and Hydrobiology, 2008, 8, 237-244.	2.3	15
139	Changing tidal hydrodynamics during different stages of eco-geomorphological development of a tidal marsh: A numerical modeling study. Estuarine, Coastal and Shelf Science, 2017, 188, 56-68.	2.1	15
140	Molluscan diversity in tidal marshes along the Scheldt estuary (The Netherlands, Belgium). Hydrobiologia, 2002, 474, 189-196.	2.0	14
141	The Role of Vegetation in the Okavango Delta Silica Sink. Wetlands, 2015, 35, 171-181.	1.5	14
142	Test of some ecological concepts on the longitudinal distribution of zooplankton along a lowland water course. Hydrobiologia, 2017, 802, 175-198.	2.0	14
143	A Petri net modeling approach to explore the temporal dynamics of the provision of multiple ecosystem services. Science of the Total Environment, 2019, 655, 1047-1061.	8.0	14
144	Groundwater dynamics in a restored tidal marsh are limited by historical soil compaction. Estuarine, Coastal and Shelf Science, 2020, 244, 106101.	2.1	14

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145	An evaluation of beached bird monitoring approaches. Marine Pollution Bulletin, 2002, 44, 322-333.	5.0	13
146	Determining discharges from the Table Mountain Group (TMG) aquifer to wetlands in the Southern Cape, South Africa. Hydrobiologia, 2008, 607, 175-186.	2.0	13
147	Estimating primary production from oxygen time series: A novel approach in the frequency domain. Limnology and Oceanography: Methods, 2015, 13, 529-552.	2.0	13
148	Avian response to tidal freshwater habitat creation by controlled reduced tide system. Estuarine, Coastal and Shelf Science, 2013, 131, 12-23.	2.1	12
149	Influence of hydraulics on the uptake of ammonium by two freshwater plants. Freshwater Biology, 2013, 58, 2452-2463.	2.4	12
150	The Vegetation Silica Pool in a Developing Tidal Freshwater Marsh. Silicon, 2013, 5, 91-100.	3.3	12
151	Can wetland plant functional groups be spectrally discriminated?. Remote Sensing of Environment, 2018, 210, 25-34.	11.0	12
152	A conservation paradox for riparian habitats and river corridor species. Journal for Nature Conservation, 2009, 17, 33-46.	1.8	11
153	Sediment macroinvertebrate community functioning in impacted and newly-created tidal freshwater habitats. Estuarine, Coastal and Shelf Science, 2013, 120, 21-32.	2.1	11
154	Land use changes and metal mobility: Multi-approach study on tidal marsh restoration in a contaminated estuary. Science of the Total Environment, 2013, 449, 174-183.	8.0	11
155	Mesozooplankton affinities in a recovering freshwater estuary. Estuarine, Coastal and Shelf Science, 2016, 177, 47-59.	2.1	11
156	Quantification of the potential impact of nature conservation on ecosystem services supply in the Flemish Region: A cascade modelling approach. Ecosystem Services, 2017, 24, 124-137.	5.4	11
157	Land use change affects biogenic silica pool distribution in a subtropical soil toposequence. Solid Earth, 2017, 8, 737-750.	2.8	11
158	Cost-Effectiveness Analysis of Ecosystem Management With Ecosystem Services: From Theory to Practice. Ecological Economics, 2018, 152, 207-218.	5.7	11
159	Spatial evaluation and tradeâ€off analysis of soil functions through Bayesian networks. European Journal of Soil Science, 2021, 72, 1575-1589.	3.9	11
160	Unraveling the Essential Effects of Flocculation on Large-Scale Sediment Transport Patterns in a Tide-Dominated Estuary. Journal of Physical Oceanography, 2020, 50, 1957-1981.	1.7	11
161	Spatial distribution, population dynamics and productivity of Spisula subtruncata: implications for Spisula fisheries in seaduck wintering areas. Marine Biology, 2007, 152, 863-875.	1.5	10
162	Stable isotope measurements confirm consumption of submerged macrophytes by macroinvertebrate and fish taxa. Aquatic Ecology, 2018, 52, 269-280.	1.5	10

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163	Effects of tidal re-introduction design on sedimentation rates in previously embanked tidal marshes. Estuarine, Coastal and Shelf Science, 2020, 244, 106428.	2.1	10
164	Modelling hydrological effects of wetland restoration: a differentiated view. Water Science and Technology, 2009, 59, 433-441.	2.5	9
165	Validation of large-scale particle image velocimetry to acquire free-surface flow fields in vegetated rivers. Journal of Applied Water Engineering and Research, 2018, 6, 171-182.	1.8	9
166	Modeling Storm Surge Attenuation by an Integrated Nature-Based and Engineered Flood Defense System in the Scheldt Estuary (Belgium). Journal of Marine Science and Engineering, 2020, 8, 27.	2.6	9
167	Environmental control of macrophyte traits and interactions with metabolism and hydromorphology in a groundwaterâ€fed river. River Research and Applications, 2021, 37, 294-306.	1.7	9
168	Mapping the spatio-temporal distribution of key vegetation cover properties in lowland river reaches, using digital photography. Environmental Monitoring and Assessment, 2017, 189, 294.	2.7	8
169	The trapping of organic matter within plant patches in the channels of the Okavango Delta: a matter of quality. Aquatic Sciences, 2017, 79, 661-674.	1.5	8
170	The impact of anthropogenically induced degradation on the vegetation and biochemistry of South African palmiet wetlands. Wetlands Ecology and Management, 2018, 26, 1157-1171.	1.5	8
171	Ecohydrology of saline grasslands: Consequences for their restoration. Applied Vegetation Science, 2003, 6, 153-160.	1.9	7
172	Experimental evidence for the decline of submerged vegetation in freshwater ecosystems by the invasive Chinese mitten crab (Eriocheir sinensis). Biological Invasions, 2020, 22, 627-641.	2.4	7
173	Effects of Polyhalogenated Aromatic Hydrocarbons and Related Contaminants on Common Tern Reproduction: Integration of Biological, Biochemical, and Chemical Data. Archives of Environmental Contamination and Toxicology, 1996, 31, 128-140.	4.1	7
174	Western Palaearctic breeding geese can alter carbon cycling in their winter habitat. Ecosphere, 2014, 5, 1-20.	2.2	6
175	Are zooplankton communities structured by taxa ecological niches or by hydrological features?. Ecohydrology, 2018, 11, e1956.	2.4	6
176	Ecohydrology of saline grasslands: Consequences for their restoration. Applied Vegetation Science, 2003, 6, 153.	1.9	6
177	Zooplankton in the Schelde estuary, Belgium and the Netherlands: long-term trends in spring populations. Hydrobiologia, 2005, 540, 275-278.	2.0	5
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