Pierluigi Viaroli

List of Publications by Year
in descending order

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132	4,774	71102	123424
papers	citations	41 h-index	61 g-index

136	136	136	4176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Community shifts, alternative stable states, biogeochemical controls and feedbacks in eutrophic coastal lagoons: a brief overview. Aquatic Conservation: Marine and Freshwater Ecosystems, 2008, 18, S105-S117.	2.0	193
2	Impact of clam and mussel farming on benthic metabolism and nitrogen cycling, with emphasis on nitrate reduction pathways. Marine Ecology - Progress Series, 2006, 315, 151-165.	1.9	144
3	Title is missing!. Hydrobiologia, 2001, 455, 203-212.	2.0	130
4	ROBUST: The ROle of BUffering capacities in STabilising coastal lagoon ecosystems. Continental Shelf Research, 2001, 21, 2021-2041.	1.8	118
5	Effect of organic enrichment and thermal regime on denitrification and dissimilatory nitrate reduction to ammonium (DNRA) in hypolimnetic sediments of two lowland lakes. Water Research, 2010, 44, 2715-2724.	11.3	117
6	Typology in Mediterranean transitional waters: new challenges and perspectives. Aquatic Conservation: Marine and Freshwater Ecosystems, 2006, 16, 441-455.	2.0	113
7	Iron, sulphur and phosphorus cycling in the rhizosphere sediments of a eutrophic Ruppia cirrhosa meadow (Valle Smarlacca, Italy). Journal of Sea Research, 2001, 45, 15-26.	1.6	110
8	Decomposition of four macrophytes in wetland sediments: Organic matter and nutrient decay and associated benthic processes. Aquatic Botany, 2008, 89, 303-310.	1.6	107
9	Implications for oxygen, nutrient fluxes and denitrification rates during the early stage of sediment colonisation by the polychaete Nereis spp. in four estuaries. Estuarine, Coastal and Shelf Science, 2007, 75, 125-134.	2.1	104
10	Macrophyte communities and their impact on benthic fluxes of oxygen, sulphide and nutrients in shallow eutrophic environments. Hydrobiologia, 1996, 329, 105-119.	2.0	103
11	Influence of hydrological connectivity of riverine wetlands on nitrogen removal via denitrification. Biogeochemistry, 2011, 103, 335-354.	3.5	97
12	Seasonal variations of selected herbicides and related metabolites in water, sediment, seaweed and clams in the Sacca di Goro coastal lagoon (Northern Adriatic). Chemosphere, 2007, 69, 1625-1637.	8.2	93
13	Impacts of mussel (Mytilus galloprovincialis) farming on oxygen consumption and nutrient recycling in a eutrophic coastal lagoon. Hydrobiologia, 2005, 550, 183-198.	2.0	86
14	Space and time variations of watershed N and P budgets and their relationships with reactive N and P loadings in a heavily impacted river basin (Po river, Northern Italy). Science of the Total Environment, 2018, 639, 1574-1587.	8.0	82
15	Simple tools for assessing water quality and trophic status in transitional water ecosystems. Ecological Indicators, 2009, 9, 982-991.	6.3	78
16	Nitrate uptake and storage in the seaweed Ulva rigida C. Agardh in relation to nitrate availability and thallus nitrate content in a eutrophic coastal lagoon (Sacca di Goro, Po River Delta, Italy). Journal of Experimental Marine Biology and Ecology, 2002, 269, 65-83.	1.5	75
17	Nitrogen cycling networks of coastal ecosystems: influence of trophic status and primary producer form. Ecological Modelling, 1996, 87, 111-129.	2.5	73
18	Nutrient and iron limitation to Ulva blooms in a eutrophic coastal lagoon (Sacca di Goro, Italy). Hydrobiologia, 2005, 550, 57-71.	2.0	70

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19	Growth of the seaweed Ulva rigida C. Agardh in relation to biomass densities, internal nutrient pools and external nutrient supply in the Sacca di Goro lagoon (Northern Italy). Hydrobiologia, 1996, 329, 93-103.	2.0	69
20	Description of trophic status, hyperautotrophy and dystrophy of a coastal lagoon through a potential oxygen production and consumption indexâ€"TOSI: Trophic Oxygen Status Index. Ecological Indicators, 2004, 3, 237-250.	6.3	68
21	Nitrogen balance and fate in a heavily impacted watershed (Oglio River, Northern Italy): in quest of the missing sources and sinks. Biogeosciences, 2012, 9, 361-373.	3.3	68
22	Animal-sediment relationships: Evaluating the â€˜Pearsonâ€"Rosenberg paradigmâ€™ in Mediterranean coastal lagoons. Marine Pollution Bulletin, 2009, 58, 478-486.	5.0	64
23	Long-term simulation of main biogeochemical events in a coastal lagoon: Sacca Di Goro (Northern) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	61
24	Ironâ€"sulphurâ€"phosphorus Interactions: Implications for Sediment Buffering Capacity in a Mediterranean Eutrophic Lagoon (Sacca di Goro, Italy). Hydrobiologia, 2005, 550, 131-148.	2.0	61
25	Impact of a trout farm on the water quality of an Apennine creek from daily budgets of nutrients. Chemistry and Ecology, 2007, 23, 1-11.	1.6	57
26	Seasonal nitrogen and phosphorus dynamics during benthic clam and suspended mussel cultivation. Marine Pollution Bulletin, 2011, 62, 1276-1287.	5.0	57
27	Direct contribution of clams (Ruditapes philippinarum) to benthic fluxes, nitrification, denitrification and nitrous oxide emission in a farmed sediment. Estuarine, Coastal and Shelf Science, 2015, 154, 84-93.	2.1	57
28	Biogeochemical indicators as tools for assessing sediment quality/vulnerability in transitional aquatic ecosystems. Aquatic Conservation: Marine and Freshwater Ecosystems, 2004, 14, S19-S29.	2.0	56
29	Greenhouse gases (CO₂, CH₄and N₂O) in lowland springs within an agricultural impacted watershed (Po River Plain, northern Italy). Chemistry and Ecology, 2011, 27, 177-187.	1.6	54
30	Physical factors and dissolved reactive silica affect phytoplankton community structure and dynamics in a lowland eutrophic river (Po river, Italy). Hydrobiologia, 2011, 669, 213-225.	2.0	54
31	Seasonal and Interannual Trends of Oceanographic Parameters over 40 Years in the Northern Adriatic Sea in Relation to Nutrient Loadings Using the EMODnet Chemistry Data Portal. Water (Switzerland), 2020, 12, 2280.	2.7	53
32	Benthic decomposition of Ulva lactuca: A controlled laboratory experiment. Aquatic Botany, 2006, 85, 271-281.	1.6	52
33	Sulphide release from anoxic sediments in relation to iron availability and organic matter recalcitrance and its effects on inorganic phosphorus recycling. Hydrobiologia, 1996, 329, 211-222.	2.0	49
34	Title is missing!. Hydrobiologia, 2000, 431, 165-174.	2.0	49
35	Microphytobenthos activity and fluxes at the sediment-water interface: interactions and spatial variability. Aquatic Ecology, 2003, 37, 341-349.	1.5	49
36	An integrated modelling approach for the management of clam farming in coastal lagoons. Aquaculture, 2007, 269, 306-320.	3.5	49

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37	Benthic metabolism and denitrification in a river reach: a comparison between vegetated and bare sediments. Journal of Limnology, 2009, 68, 133.	1.1	49
38	Nitrogen and phosphorous budgets during a farming cycle of the Manila clam Ruditapes philippinarum: An in situ experiment. Aquaculture, 2006, 261, 98-108.	3.5	48
39	Diurnal exchanges of CO2 and CH4 across the waterâ€“atmosphere interface in a water chestnut meadow (Trapa natans L.). Aquatic Botany, 2007, 87, 43-48.	1.6	48
40	Role of abiotic and biotic factors in structuring the metazoan plankton community in a lowland river. River Research and Applications, 2009, 25, 814-835.	1.7	43
41	Soil Budget, Net Export, and Potential Sinks of Nitrogen in the Lower Oglio River Watershed (Northern Italy). Clean - Soil, Air, Water, 2011, 39, 956-965.	1.1	43
42	Remote sensing of phytoplankton-macrophyte coexistence in shallow hypereutrophic fluvial lakes. Hydrobiologia, 2014, 737, 67-76.	2.0	43
43	Macrophyte communities and their impact on benthic fluxes of oxygen, sulphide and nutrients in shallow eutrophic environments. , 1996, , 105-119.		43
44	Seasonal fluxes of O2, DIC and CH4 in sediments with Vallisneria spiralis: indications for radial oxygen loss. Aquatic Botany, 2011, 94, 134-142.	1.6	41
45	Short term effects of hypoxia and bioturbation on solute fluxes, denitrification and buffering capacity in a shallow dystrophic pond. Journal of Experimental Marine Biology and Ecology, 2009, 381, 105-113.	1.5	38
46	Species and functional plant diversity in a heavily impacted riverscape: Implications for threatened hydro-hygrophilous flora conservation. Limnologica, 2013, 43, 230-238.	1.5	38
47	Net autotrophy in a fluvial lake: the relative role of phytoplankton and floating-leaved macrophytes. Aquatic Sciences, 2011, 73, 389-403.	1.5	37
48	Benthic oxygen respiration, ammonium and phosphorus regeneration in surficial sediments of the Sacca di Goro (Northern Italy) and two French coastal lagoons: a comparative study. Hydrobiologia, 1996, 329, 143-159.	2.0	35
49	A 3D hydrodynamic fate and transport model for herbicides in Sacca di Goro coastal lagoon (Northern Adriatic). Marine Pollution Bulletin, 2006, 52, 1231-1248.	5.0	35
50	Inorganic nitrogen control in wastewater treatment ponds from a fish farm (Orbetello, Italy): Denitrification versus Ulva uptake. Marine Pollution Bulletin, 2005, 50, 1386-1397.	5.0	34
51	Net primary production and seasonal CO2 and CH4 fluxes in a Trapa natans L. meadow. Journal of Limnology, 2010, 69, 225.	1.1	34
52	Application of specific exergy to macrophytes as an integrated index of environmental quality for coastal lagoons. Ecological Indicators, 2007, 7, 229-238.	6.3	33
53	Benthic nitrogen metabolism in a macrophyte meadow (Vallisneria spiralis L.) under increasing sedimentary organic matter loads. Biogeochemistry, 2015, 124, 387-404.	3.5	33
54	If Alpine streams run dry: the drought memory of benthic communities. Aquatic Sciences, 2019, 81, 1.	1.5	33

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55	Modelling ecosystem functions and properties at different time and spatial scales in shallow coastal lagoons: An application of the LOICZ biogeochemical model. Estuarine, Coastal and Shelf Science, 2008, 77, 264-277.	2.1	32
56	Seasonal variations of sulphate reduction rates sulphur pools and iron availability in the sediment of a dystrophic lagoon (Sacca di Goro, Italy). Water, Air, and Soil Pollution, 1997, 99, 363-371.	2.4	31
57	The Sacca di Goro Lagoon and an Arm of the Po River. Handbook of Environmental Chemistry, Volume 5: Water Pollution, 2005, , 197-232.	0.4	31
58	Modeling approach to regime shifts of primary production in shallow coastal ecosystems. Ecological Modelling, 2009, 220, 3100-3110.	2.5	28
59	European large perialpine lakes under anthropogenic pressures and climate change: present status, research gaps and future challenges. Hydrobiologia, 2018, 824, 1-32.	2.0	28
60	Influence of Potamogeton pectinatus and microphytobenthos on benthic metabolism, nutrient fluxes and denitrification in a freshwater littoral sediment in an agricultural landscape: N assimilation versus N removal. Hydrobiologia, 2014, 737, 183-200.	2.0	27
61	Trade-off between conservation and exploitation of the transitional water ecosystems of the northern Adriatic Sea. Chemistry and Ecology, 2010, 26, 105-119.	1.6	26
62	Benthic primary production and bacterial denitrification in a Mediterranean eutrophic coastal lagoon. Journal of Experimental Marine Biology and Ecology, 2012, 438, 41-51.	1.5	26
63	Community metabolism and buffering capacity of nitrogen in a ruppia cirrhosa meadow. Journal of Experimental Marine Biology and Ecology, 2008, 360, 21-30.	1.5	25
64	Short term changes in pore water chemistry in river sediments during the early colonization by Vallisneria spiralis. Hydrobiologia, 2010, 652, 127-137.	2.0	25
65	Oxygen and ammonium dynamics during a farming cycle of the bivalve Tapes philippinarum. Hydrobiologia, 2007, 587, 25-36.	2.0	24
66	A rapid assessment of the sedimentary buffering capacity towards free sulphides. Hydrobiologia, 2008, 611, 55-66.	2.0	23
67	Testing the response of macroinvertebrate communities and biomonitoring indices under multiple stressors in a lowland regulated river. Ecological Indicators, 2018, 90, 47-53.	6.3	23
68	Influence of Clam Farming on Macroalgal Growth: A Microcosm Experiment. Chemistry and Ecology, 2003, 19, 147-160.	1.6	22
69	Benthic Fluxes of Dissolved Inorganic Nitrogen in a Coastal Lagoon of the Northern Adriatic Sea: an Interpretation of Spatial Variability Based on Sediment Features and Infauna Activity. Marine Ecology, 2002, 23, 297-306.	1.1	21
70	Short Term Changes of Benthic Fluxes During Clam Harvesting in a Coastal Lagoon (Sacca Di Goro, Po) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	21
71	CO2 and CH4 fluxes across a Nuphar lutea (L.) Sm. stand. Journal of Limnology, 2012, 71, 21.	1.1	21
72	Denitrification in a meromictic lake and its relevance to nitrogen flows within a moderately impacted forested catchment. Biogeochemistry, 2018, 137, 143-161.	3.5	21

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73	Is Flood Irrigation a Potential Driver of River-Groundwater Interactions and Diffuse Nitrate Pollution in Agricultural Watersheds?. Water (Switzerland), 2019, 11, 2304.	2.7	21
74	Assessing the Potential Impact of Clam Rearing in Dystrophic Lagoons: An Integrated Oxygen Balance. Chemistry and Ecology, 2003, 19, 129-146.	1.6	20
75	Preface: European lagoonsâ€"need for further comparison across spatial and temporal scales. Hydrobiologia, 2008, 611, 1-4.	2.0	20
76	Denitrification, Nitrogen Uptake, and Organic Matter Quality Undergo Different Seasonality in Sandy and Muddy Sediments of a Turbid Estuary. Frontiers in Microbiology, 2020, 11, 612700.	3.5	20
77	A Multimethodological Approach for the Sustainable Management of Perifluvial Wetlands of the Po River (Italy). Environmental Management, 2000, 26, 59-72.	2.7	19
78	Benthic decomposition of Zostera marina roots: a controlled laboratory experiment. Journal of Experimental Marine Biology and Ecology, 2004, 313, 105-124.	1.5	19
79	Eutrophication of the Mediterranean Sea: a watershedâ€"cascading aquatic filter approach. Rendiconti Lincei, 2015, 26, 13-23.	2.2	19
80	Economic modelling as a tool to support macroalgal bloom management: a case study (Sacca di Goro,) Tj ETQq0 0 0 rgBT /Overlock 10 T Oceanologie, 2003, 26, 139-147.	0.7	18
81	Environmental Drivers Controlling Bacterial and Archaeal Abundance in the Sediments of a Mediterranean Lagoon Ecosystem. Current Microbiology, 2018, 75, 1147-1155.	2.2	18
82	Taxonomic and Functional Responses of Benthic Macroinvertebrate Communities to Hydrological and Water Quality Variations in a Heavily Regulated River. Water (Switzerland), 2019, 11, 1478.	2.7	18
83	Integrated modelling in coastal lagoons: Sacca di Goro case study. Hydrobiologia, 2008, 611, 147-165.	2.0	17
84	Persistence of meromixis and its effects on redox conditions and trophic status in Lake Idro (Southern Alps, Italy). Hydrobiologia, 2018, 824, 51-69.	2.0	16
85	Ecological research on the animal communities of the Po River Delta lagoons. Bollettino Di Zoologia, 1994, 61, 425-436.	0.3	14
86	Short-term effect of oxic to anoxic transition on benthic microbial activity and solute fluxes in organic-rich phytotreatment ponds. Hydrobiologia, 2009, 629, 123-136.	2.0	14
87	Factors Affecting Dissolved Silica Concentrations, and DSi and DIN Stoichiometry in a Human Impacted Watershed (Po River, Italy). Silicon, 2013, 5, 101-114.	3.3	14
88	Integrating habitat- and species-based perspectives for wetland conservation in lowland agricultural landscapes. Biodiversity and Conservation, 2020, 29, 153-171.	2.6	14
89	Communities in high definition: Spatial and environmental factors shape the microâ€distribution of aquatic invertebrates. Freshwater Biology, 2020, 65, 2053-2065.	2.4	14
90	Benthic oxygen respiration, ammonium and phosuphorus regeneration in surficial sediments of the Sacca di Goro (Northern Italy) and two French coastal lagoons: a comparative study. , 1996, , 143-159.		14

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91	A First Generation Stochastic Bioeconomic Analysis of Algal Bloom Control in a Coastal Lagoon (Sacca di Goro, Po River Delta). Marine Ecology, 2002, 23, 92-100.	1.1	13
92	A bioaccumulation model for herbicides in Ulva rigida and Tapes philippinarum in Sacca di Goro lagoon (Northern Adriatic). Chemosphere, 2009, 74, 1044-1052.	8.2	12
93	Primary productivity, biogeochemical buffers and factors controlling trophic status and ecosystem processes in Mediterranean coastal lagoons: a synthesis. Advances in Oceanography and Limnology, 2010, 1, 271-293.	0.6	12
94	Factors Controlling Benthic Biogeochemistry in Urbanized Coastal Systems: an Example from Venice (Italy). Estuaries and Coasts, 2015, 38, 1016-1031.	2.2	12
95	Exotic species, rather than low flow, negatively affect native fish in the Oglio River, Northern Italy. River Research and Applications, 2018, 34, 887-897.	1.7	12
96	Sulphide release from anoxic sediments in relation to iron availability and organic matter recalcitrance and its effects on inorganic phosphorus recycling. , 1996, , 211-222.		12
97	Trophic state and seasonal dynamics of phytoplankton communities in two sand-pit lakes at different successional stages. Journal of Limnology, 2009, 68, 217.	1.1	11
98	Benthic processes in fresh water fluffy sediments undergoing resuspension. Journal of Limnology, 2013, 72, 1.	1.1	11
99	Denitrification and benthic metabolism in lowland pit lakes: The role of trophic conditions. Science of the Total Environment, 2020, 703, 134804.	8.0	11
100	Assessing The Potential Impact Of Clam Rearing In Dystrophic Lagoons: An Integrated Oxygen Balance. Chemistry and Ecology, 2003, 19, 129-146.	1.6	11
101	Dissolved oxygen and nutrient budgets in a phytotreatment pond colonised by Ulva spp.. Hydrobiologia, 2005, 550, 199-209.	2.0	10
102	Effects of Drying and Re-Wetting on Litter Decomposition and Nutrient Recycling: A Manipulative Experiment. Water (Switzerland), 2019, 11, 708.	2.7	10
103	Construction and Analysis of Static, Structured Models of Nitrogen Cycling in Coastal Ecosystems. , 1998, , 162-195.		10
104	Using invertebrate functional traits to improve flow variability assessment within European rivers. Science of the Total Environment, 2022, , 155047.	8.0	10
105	Changes in the physical and chemical properties of floodwater and sediment in an experimental ricefield (Reggio Emilia, Italy). Hydrobiologia, 1987, 144, 83-88.	2.0	9
106	Limnological research on northern Apennine lakes (Italy) in relation to eutrophication and acidification risk. Hydrobiologia, 1994, 274, 155-162.	2.0	9
107	Zooplankton Community Structure and Interâ€Annual Dynamics in Two Sandâ€Pit Lakes with Different Dredging Impact. International Review of Hydrobiology, 2009, 94, 290-307.	0.9	9
108	Preface: Wetlands biodiversity and processesâ€"tools for conservation and management. Hydrobiologia, 2016, 774, 1-5.	2.0	9

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109	Do oxicâ€“anoxic transitions constrain organic matter mineralization in eutrophic freshwater wetlands?. Hydrobiologia, 2016, 774, 81-92.	2.0	9
110	Decoupling of silica, nitrogen and phosphorus cycling in a meromictic subalpine lake (Lake Iseo, Italy). Biogeochemistry, 2022, 159, 371-392.	3.5	9
111	Ecosystem Health Indexed through Networks of Nitrogen Cycling. Marine Science, 2010, , 73-90.	0.5	8
112	Small-scale variability of benthic macroinvertebrates distribution and its effects on biological monitoring. Annales De Limnologie, 2014, 50, 211-216.	0.6	7
113	Mesohabitat mosaic in lowland braided rivers: Short-term variability of macroinvertebrate metacommunities. Journal of Limnology, 2016, 76, .	1.1	7
114	Connectivity and habitat typology drive <scp>CO₂</scp> and <scp>CH₄</scp> fluxes across landâ€“water interfaces in lowland rivers. Ecohydrology, 2019, 12, e2036.	2.4	7
115	Sedimentary Organic Matter, Prokaryotes, and Meiofauna across a River-Lagoon-Sea Gradient. Diversity, 2020, 12, 189.	1.7	7
116	Evaluation of dynamic headspace and purge-and-trap techniques for the high-resolution gas chromatography analysis of nitrous oxide in seawater. Journal of Chromatography A, 1999, 848, 327-335.	3.7	6
117	Daily and seasonal variability of CO2 saturation and evasion in a free flowing and in a dammed river reach. Journal of Limnology, 2014, 73, .	1.1	6
118	Silica Storage, Fluxes, and Nutrient Stoichiometry in Different Benthic Primary Producer Communities in the Littoral Zone of a Deep Subalpine Lake (Lake Iseo, Italy). Water (Switzerland), 2019, 11, 2140.	2.7	6
119	Assessing eutrophication in transitional waters: A performance analysis of the Transitional Water Quality Index (TWQI) under seasonal fluctuations. Estuarine, Coastal and Shelf Science, 2019, 216, 218-228.	2.1	6
120	Effect of microhabitats, mesohabitats and spatial position on macroinvertebrate communities of a braided river. Journal of Ecohydraulics, 2021, 6, 95-104.	3.1	6
121	Long-term limnological research in a quarry lake of the Po River, Italy. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2002, 28, 576-581.	0.1	5
122	The impact of the summer 2003 drought event on the zooplankton of the Po River (Italy). Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2006, 29, 2143-2149.	0.1	5
123	Algal biomass and macroinvertebrate dynamics in intermittent braided rivers: new perspectives from instream pools. River Research and Applications, 2020, 36, 1682-1689.	1.7	5
124	Ecosystem alteration and pollution in Southern European coastal lagoons. Chemistry and Ecology, 2005, 21, 413-414.	1.6	4
125	Effect of filter-feeding mollusks on growth of green macroalgae and nutrient cycling in a heavily exploited coastal lagoon. Estuarine, Coastal and Shelf Science, 2020, 239, 106679.	2.1	4
126	Relationships between macroalgal biomass and microbiological quality of water in a phytotreatment pond. Hydrobiologia, 2005, 550, 211-219.	2.0	3

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127	Preface: Research and Management for the Conservation of Coastal Lagoon Ecosystems, Southâ€“North Comparisons. Hydrobiologia, 2012, 699, 1-4.	2.0	3
128	Variability in Environmental Conditions Strongly Impacts Ostracod Assemblages of Lowland Springs in a Heavily Anthropized Area. Water (Switzerland), 2020, 12, 3276.	2.7	3
129	Nitrogen and phosphorous cycling in an oxbow lake dominated by Trapa natans L.. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2006, 29, 1981-1988.	0.1	2
130	Regulation of CO2 fluxes along gradients of water saturation in irrigation canal sediments. Aquatic Sciences, 2021, 83, 1.	1.5	2
131	Title is missing!. Water, Air, and Soil Pollution, 1997, 99, 363-371.	2.4	1
132	Seasonal Variations of Sulphate Reduction Rates, Sulphur Pools and Iron Availability in the Sediment of a Dystrophic Lagoon (Sacca Di Goro, Italy). , 1997, , 363-371.		1