Giuseppe Castaldelli

List of Publications by Year
in descending order

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123 papers	2,685 citations	172207 29 h-index	276539 41 g-index
124 all docs	124 docs citations	124 times ranked	2838 citing authors

#	Article	IF	Citations
1	Partitioning benthic nitrogen cycle processes among three common macrofauna holobionts. Biogeochemistry, 2022, 157, 193-213.	1.7	7
2	Swoon over the moon: The influence of environmental factors on glass eels entering Mediterranean coastal lagoons. Estuarine, Coastal and Shelf Science, 2022, 264, 107668.	0.9	2
3	Aquatic Vegetation Loss and Its Implication on Climate Regulation in a Protected Freshwater Wetland of Po River Delta Park (Italy). Water (Switzerland), 2022, 14, 117.	1.2	4
4	An Underestimated Contribution of Deltaic Denitrification in Reducing Nitrate Export to the Coastal Zone (Po Riverâ€“Adriatic Sea, Northern Italy). Water (Switzerland), 2022, 14, 501.	1.2	4
5	Effect of waterborne exposure to perfluorooctanoic acid on nephron and renal hemopoietic tissue of common carp Cyprinus carpio. Ecotoxicology and Environmental Safety, 2022, 234, 113407.	2.9	4
6	The seasonal response of in situ denitrification and DNRA rates to increasing nitrate availability. Estuarine, Coastal and Shelf Science, 2022, 271, 107856.	0.9	5
7	Distance decay 2.0 â€“ A global synthesis of taxonomic and functional turnover in ecological communities. Global Ecology and Biogeography, 2022, 31, 1399-1421.	2.7	40
8	Trends and Opportunities of Bivalve Shellsâ€™ Waste Valorization in a Prospect of Circular Blue Bioeconomy. Resources, 2022, 11, 48.	1.6	21
9	Natural and anthropogenic factors drive large-scale freshwater fish invasions. Scientific Reports, 2022, 12, .	1.6	6
10	Perfluorooctanoic acid-induced cellular and subcellular alterations in fish hepatocytes. Environmental Toxicology and Pharmacology, 2021, 81, 103548.	2.0	8
11	Structural and Functional Variations of the Macrobenthic Community of the Adige Basin along the River Continuum. Water (Switzerland), 2021, 13, 451.	1.2	4
12	A bioturbator, a holobiont, and a vector: The multifaceted role of Chironomus plumosus in shaping Nâ€cycling. Freshwater Biology, 2021, 66, 1036-1048.	1.2	8
13	Seasonal Variation of Functional Traits in the Fish Community in a Brackish Lagoon of the Po River Delta (Northern Italy). Water (Switzerland), 2021, 13, 679.	1.2	3
14	Plastic (PET) vs bioplastic (PLA) or refillable aluminium bottles â€“ What is the most sustainable choice for drinking water? A life-cycle (LCA) analysis. Environmental Research, 2021, 196, 110974.	3.7	60
15	The achievement of Water Framework Directive goals through the restoration of vegetation in agricultural canals. Journal of Environmental Management, 2021, 294, 113016.	3.8	4
16	Nutrients and carbon fate in two lowland contrasting soils amended with compost. Catena, 2021, 206, 105493.	2.2	10
17	The role of species introduction in modifying the functional diversity of native communities. Science of the Total Environment, 2020, 699, 134364.	3.9	24
18	Partial decoupling between exotic fish and habitat constraints remains evident in late invasion stages. Aquatic Sciences, 2020, 82, 1.	0.6	5

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19	Could a freshwater fish be at the root of dystrophic crises in a coastal lagoon?. Science of the Total Environment, 2020, 711, 135093.	3.9	8
20	Temporal dynamics of species associations in the parasite community of European eels, Anguilla anguilla, from a coastal lagoon. International Journal for Parasitology: Parasites and Wildlife, 2020, 12, 67-75.	0.6	3
21	Contrasting Effects of Bioturbation Studied in Intact and Reconstructed Estuarine Sediments. Water (Switzerland), 2020, 12, 3125.	1.2	6
22	Life Cycle Assessment (LCA) Proves that Manila Clam Farming (Ruditapes Philippinarum) is a Fully Sustainable Aquaculture Practice and a Carbon Sink. Sustainability, 2020, 12, 5252.	1.6	24
23	Land use intensification rather than land cover change affects regulating services in the mountainous Adige river basin (Italy). Ecosystem Services, 2020, 45, 101158.	2.3	21
24	The Ecological Importance of Amphipodâ€“Parasite Associations for Aquatic Ecosystems. Water (Switzerland), 2020, 12, 2429.	1.2	13
25	Introducing Life Cycle Assessment in Costs and Benefits Analysis of Vegetation Management in Drainage Canals of Lowland Agricultural Landscapes. Water (Switzerland), 2020, 12, 2236.	1.2	2
26	In Search for the Missing Nitrogen: Closing the Budget to Assess the Role of Denitrification in Agricultural Watersheds. Applied Sciences (Switzerland), 2020, 10, 2136.	1.3	9
27	Biogas from Agri-Food and Agricultural Waste Can Appreciate Agro-Ecosystem Services: The Case Study of Emilia Romagna Region. Sustainability, 2020, 12, 8392.	1.6	33
28	Is Bioenergy Truly Sustainable When Land-Use-Change (LUC) Emissions Are Accounted for? The Case-Study of Biogas from Agricultural Biomass in Emilia-Romagna Region, Italy. Sustainability, 2020, 12, 3260.	1.6	21
29	Modeling Soil Nitrate Accumulation and Leaching in Conventional and Conservation Agriculture Cropping Systems. Water (Switzerland), 2020, 12, 1571.	1.2	13
30	The effects of hydrological extremes on denitrification, dissimilatory nitrate reduction to ammonium (DNRA) and mineralization in a coastal lagoon. Science of the Total Environment, 2020, 740, 140169.	3.9	22
31	Nitrate availability affects denitrification in Phragmites australis sediments. Journal of Environmental Quality, 2020, 49, 194-209.	1.0	8
32	Soil conditioners effects on hydraulic properties, leaching processes and denitrification on a silty-clay soil. Science of the Total Environment, 2020, 733, 139342.	3.9	20
33	Sustainability of Mussel (Mytilus Galloprovincialis) Farming in the Po River Delta, Northern Italy, Based on a Life Cycle Assessment Approach. Sustainability, 2020, 12, 3814.	1.6	31
34	Direct measurement of dissolved dinitrogen to refine reactive modelling of denitrification in agricultural soils. Science of the Total Environment, 2019, 647, 134-140.	3.9	13
35	An ounce of prevention is worth a pound of cure: Managing macrophytes for nitrate mitigation in irrigated agricultural watersheds. Science of the Total Environment, 2019, 647, 301-312.	3.9	32
36	Effect of ebullition and groundwater temperature on estimated dinitrogen excess in contrasting agricultural environments. Science of the Total Environment, 2019, 693, 133638.	3.9	4

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37	Contrasting biogeochemical processes revealed by stable isotopes of H2O, N, C and S in shallow aquifers underlying agricultural lowlands. Science of the Total Environment, 2019, 691, 1282-1296.	3.9	15
38	Life Cycle Assessment of Maize-Germ Oil Production and The Use of Bioenergy to Mitigate Environmental Impacts: A Gate-To-Gate Case Study. Resources, 2019, 8, 60.	1.6	14
39	Estuarine Macrofauna Affects Benthic Biogeochemistry in a Hypertrophic Lagoon. Water (Switzerland), 2019, 11, 1186.	1.2	12
40	Ecosystem services approach for sustainable governance in a brackish water lagoon used for aquaculture. Journal of Environmental Planning and Management, 2019, 62, 1501-1524.	2.4	21
41	Complex Interactions Between Fertilizers and Subsoils Triggering Reactive Nitrogen Speciation in Lowlands. Advances in Science, Technology and Innovation, 2019, , 133-135.	0.2	2
42	Meteorological factors influence marine and resident fish movements in a brackish lagoon. Aquatic Ecology, 2019, 53, 251-263.	0.7	10
43	Intense rainfalls trigger nitrite leaching in agricultural soils depleted in organic matter. Science of the Total Environment, 2019, 665, 80-90.	3.9	16
44	Diversity patterns of native and exotic fish species suggest homogenization processes, but partly fail to highlight extinction threats. Diversity and Distributions, 2019, 25, 983-994.	1.9	30
45	Exotic species invasions undermine regional functional diversity of freshwater fish. Scientific Reports, 2019, 9, 17921.	1.6	41
46	Life Cycle Assessment of Oyster Farming in the Po Delta, Northern Italy. Resources, 2019, 8, 170.	1.6	17
47	Analysis of 15N-NO3â˜ Via Anoxic Slurries Coupled to MIMS Analysis: An Application to Estimate Nitrification by Burrowing Macrofauna. Water (Switzerland), 2019, 11, 2310.	1.2	1
48	Perfluorooctanoic Acid Exposure Assessment on Common Carp Liver through Image and Ultrastructural Investigation. International Journal of Environmental Research and Public Health, 2019, 16, 4923.	1.2	9
49	Reactive nitrogen losses via denitrification assessed in saturated agricultural soils. Geoderma, 2019, 337, 91-98.	2.3	29
50	Denitrification in a meromictic lake and its relevance to nitrogen flows within a moderately impacted forested catchment. Biogeochemistry, 2018, 137, 143-161.	1.7	21
51	A novel approach to an ecofunctional fish index for Mediterranean countries. Ecological Indicators, 2018, 89, 376-385.	2.6	9
52	Soil type and microclimatic conditions as drivers of urea transformation kinetics in maize plots. Catena, 2018, 166, 200-208.	2.2	19
53	The effect of water velocity on nitrate removal in vegetated waterways. Journal of Environmental Management, 2018, 215, 230-238.	3.8	19
54	To mow or not to mow: reed biofilms as denitrification hotspots in drainage canals. Ecological Engineering, 2018, 113, 1-10.	1.6	28

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55	Variation in benthic metabolism and nitrogen cycling across clam aquaculture sites. Marine Pollution Bulletin, 2018, 127, 524-535.	2.3	17
56	Run to the hills: exotic fish invasions and water quality degradation drive native fish to higher altitudes. Science of the Total Environment, 2018, 624, 1325-1335.	3.9	29
57	Environmental doses of perfluorooctanoic acid change the expression of genes in target tissues of common carp. Environmental Toxicology and Chemistry, 2018, 37, 942-948.	2.2	46
58	Long-term fish monitoring underlines a rising tide of temperature tolerant, rheophilic, benthivore and generalist exotics, irrespective of hydrological conditions. Journal of Limnology, 2018, 77, .	0.3	15
59	Estimate of gas transfer velocity in the presence of emergent vegetation using argon as a tracer: Implications for whole-system denitrification measurements. Chemosphere, 2018, 213, 526-532.	4.2	4
60	Tides and moon drive fish movements in a brackish lagoon. Estuarine, Coastal and Shelf Science, 2018, 215, 207-214.	0.9	11
61	Exotic species, rather than low flow, negatively affect native fish in the Oglio River, Northern Italy. River Research and Applications, 2018, 34, 887-897.	0.7	12
62	Managing the environment in a pinch: red swamp crayfish tells a cautionary tale of ecosystem based management in northeastern Italy. Ecological Engineering, 2018, 120, 546-553.	1.6	4
63	A method to identify bimodal weightâ€“length relations: Possible ontogenetic diet and/or metabolism shift effects in Anguilla anguilla (Actinopterygii: Anguilliformes: Anguillidae). Acta Ichthyologica Et Piscatoria, 2018, 48, 163-171.	0.3	4
64	A sizeâ€age model based on bootstrapping and Bayesian approaches to assess population dynamics of Anguilla anguilla L. in semiâ€closed lagoons. Ecology of Freshwater Fish, 2017, 26, 217-232.	0.7	8
65	Mitigation of nitrogen pollution in vegetated ditches fed by nitrate-rich spring waters. Agriculture, Ecosystems and Environment, 2017, 243, 74-82.	2.5	55
66	Histological and ultrastructural study of Myxobolus mugchelo (Parenzan, 1966) with initial histopathology survey of the Liza ramada host intestine. Parasitology Research, 2017, 116, 1713-1721.	0.6	11
67	Chlorate origin and fate in shallow groundwater below agricultural landscapes. Environmental Pollution, 2017, 231, 1453-1462.	3.7	21
68	Changes in land use and ecosystem services in tropical forest areas: a case study in Andes mountains of Ecuador. International Journal of Biodiversity Science, Ecosystem Services & Management, 2017, 13, 264-279.	2.9	37
69	Longâ€term records (1781â€“2013) of European eel (Anguilla anguilla L.) production in the Comacchio Lagoon (Italy): evaluation of local and global factors as causes of the population collapse. Aquatic Conservation: Marine and Freshwater Ecosystems, 2017, 27, 502-520.	0.9	24
70	Land use change effects on ecosystem services of river deltas and coastal wetlands: case study in Volanoâ€“Mesolaâ€“Goro in Po river delta (Italy). Wetlands Ecology and Management, 2017, 25, 67-86.	0.7	66
71	Effects of Moisture and Particle Size on Quantitative Determination of Total Organic Carbon (TOC) in Soils Using Near-Infrared Spectroscopy. Sensors, 2017, 17, 2366.	2.1	19
72	Sensitivity to selected contaminants in a biological early warning system using <i>Anodonta woodiana</i> (Mollusca). Water S A, 2017, 43, 200.	0.2	7

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73	Texture analysis in liver of common carp (Cyprinus carpio) sub-chronically exposed to perfluorooctanoic acid. Ecological Indicators, 2017, 81, 54-64.	2.6	9
74	First evidence of bighead carp wild recruitment in Western Europe, and its relation to hydrology and temperature. PLoS ONE, 2017, 12, e0189517.	1.1	16
75	High-resolution global grids of revised Priestleyâ€“Taylor and Hargreavesâ€“Samani coefficients for assessing ASCE-standardized reference crop evapotranspiration and solar radiation. Earth System Science Data, 2017, 9, 615-638.	3.7	36
76	Anguilla anguilla intestinal immune response to natural infection with Contracaecum rudolphii A larvae. Journal of Fish Diseases, 2016, 39, 1187-1200.	0.9	14
77	Common carp Cyprinus carpio responses to sub-chronic exposure to perfluorooctanoic acid. Environmental Science and Pollution Research, 2016, 23, 15321-15330.	2.7	24
78	Nematode infection in liver of the fish Gymnotus inaequilabiatus (Gymnotiformes: Gymnotidae) from the Pantanal Region in Brazil: pathobiology and inflammatory response. Parasites and Vectors, 2016, 9, 473.	1.0	17
79	Criticism on elasticity-sensitivity coefficient for assessing the robustness and sensitivity of ecosystem services values. Ecosystem Services, 2016, 20, 66-68.	2.3	62
80	A combined methodology to assess the intrinsic vulnerability of aquifers to pollution from agrochemicals. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	4
81	Environmental stressor gradients hierarchically regulate macrozoobenthic community turnover in lotic systems of Northern Italy. Hydrobiologia, 2016, 765, 131-147.	1.0	18
82	Life Cycle Based Evaluation of Environmental and Economic Impacts of Agricultural Productions in the Mediterranean Area. Sustainability, 2015, 7, 2915-2935.	1.6	43
83	Onsite and online FT-NIR spectroscopy for the estimation of total nitrogen and moisture content in poultry manure. Environmental Technology (United Kingdom), 2015, 36, 2285-2294.	1.2	8
84	Occurrence of perfluorooctanesulfonate and perfluorooctanoic acid and histopathology in eels from north Italian waters. Chemosphere, 2015, 118, 117-123.	4.2	31
85	Vegetated canals mitigate nitrogen surplus in agricultural watersheds. Agriculture, Ecosystems and Environment, 2015, 212, 253-262.	2.5	57
86	Benthic nitrogen metabolism in a macrophyte meadow (Vallisneria spiralis L.) under increasing sedimentary organic matter loads. Biogeochemistry, 2015, 124, 387-404.	1.7	33
87	A Review and Synthesis of Bivariate Non-Linear Models to Describe the Relative Variation of Ecological, Biological and Environmental Parameters. Environmental Modeling and Assessment, 2015, 20, 169-182.	1.2	3
88	Natural recruitment contributes to high densities of grass carp Ctenopharyngodon idella (Valenciennes, 1844) in Western Europe. Aquatic Invasions, 2015, 10, 439-448.	0.6	15
89	An update of the length-weight and length-age relationships of the European eel (Anguilla) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Ichthyology, 2014, 30, 558-559.	0.3	9
90	Temporal and spatial changes in the composition and structure of helminth component communities in European eels Anguilla anguilla in an Adriatic coastal lagoon and some freshwaters in Italy. Parasitology Research, 2014, 113, 113-120.	0.6	10

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91	Nitrogen Budget in a Lowland Coastal Area Within the Po River Basin (Northern Italy): Multiple Evidences of Equilibrium Between Sources and Internal Sinks. Environmental Management, 2013, 52, 567-580.	1.2	43
92	Formulation of Indices to Describe Intrinsic Nitrogen Transformation Rates for the Implementation of Best Management Practices in Agricultural Lands. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	17
93	Linking dissolved organic carbon, acetate and denitrification in agricultural soils. Environmental Earth Sciences, 2013, 68, 939-945.	1.3	37
94	Nitrogen Removal in Vegetated and Unvegetated Drainage Ditches Impacted by Diffuse and Point Sources of Pollution. Clean - Soil, Air, Water, 2013, 41, 24-31.	0.7	49
95	Introduction of exotic fish species and decline of native species in the lower Po basin, northâ€eastern Italy. Aquatic Conservation: Marine and Freshwater Ecosystems, 2013, 23, 405-417.	0.9	51
96	A Stepwise Approach to Assess the Fate of Nitrogen Species in Agricultural Lowlands. , 2013, , 431-460.		3
97	Infiltration and activation of acidophilic granulocytes in skin lesions of gilthead seabream, Sparus aurata, naturally infected with lymphocystis disease virus. Developmental and Comparative Immunology, 2012, 36, 174-182.	1.0	31
98	The impact of an oil spill on organs of bream Abramis brama in the Po River. Ecotoxicology and Environmental Safety, 2012, 77, 18-27.	2.9	23
99	Proliferative cell nuclear antigen (PCNA) expression in the intestine of Salmo trutta trutta naturally infected with an acanthocephalan. Parasites and Vectors, 2012, 5, 198.	1.0	49
100	Innate immune defence mechanisms of tench, Tinca tinca (L.), naturally infected with the tapeworm Monobothrium wageneri. Parasite Immunology, 2012, 34, 511-519.	0.7	16
101	Benthic primary production and bacterial denitrification in a Mediterranean eutrophic coastal lagoon. Journal of Experimental Marine Biology and Ecology, 2012, 438, 41-51.	0.7	26
102	Assessment of the Intrinsic Vulnerability of Agricultural Land to Water and Nitrogen Losses via Deterministic Approach and Regression Analysis. Water, Air, and Soil Pollution, 2012, 223, 1605-1614.	1.1	45
103	Green electrochemical approach for delignification of wheat straw in second-generation bioethanol production. Energy and Environmental Science, 2011, 4, 551-557.	15.6	33
104	Fourier Transformâ€“Near Infrared Spectroscopy in-line Monitoring of the Enzymatic Hydrolysis of Starch in Rye: Water Mashes for First-Generation Bioethanol Production. Journal of Near Infrared Spectroscopy, 2011, 19, 181-190.	0.8	5
105	Intestinal immune response of Silurus glanis and Barbus barbus naturally infected with Pomphorhynchus laevis (Acanthocephala). Parasite Immunology, 2011, 33, 116-123.	0.7	33
106	Stylet penetration of Cacopsylla pyri; an electrical penetration graph (EPG) study. Journal of Insect Physiology, 2011, 57, 1407-1419.	0.9	54
107	Monitoring and Modeling Nitrate Persistence in a Shallow Aquifer. Water, Air, and Soil Pollution, 2011, 217, 83-93.	1.1	27
108	Reactive Modeling of Denitrification in Soils with Natural and Depleted Organic Matter. Water, Air, and Soil Pollution, 2011, 222, 205-215.	1.1	25

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109	Large tank experiment on nitrate fate and transport: the role of permeability distribution. Environmental Earth Sciences, 2011, 63, 903-914.	1.3	29
110	Cellular response in semi-intensively cultured sea bream gills to Ergasilus sieboldi (Copepoda) with emphasis on the distribution, histochemistry and fine structure of mucous cells. Veterinary Parasitology, 2010, 174, 359-365.	0.7	18
111	Numerical assessment of effective evapotranspiration from maize plots to estimate groundwater recharge in lowlands. Agricultural Water Management, 2010, 97, 1389-1398.	2.4	38
112	Community metabolism and buffering capacity of nitrogen in a ruppia cirrhosa meadow. Journal of Experimental Marine Biology and Ecology, 2008, 360, 21-30.	0.7	25
113	The infaunal community in experimentally seeded low and high density Manila clam (Tapes) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.2	14
114	Invertebrate colonisation of GAC filters in a potabilisation plant treating groundwater. Journal of Water Supply: Research and Technology - AQUA, 2005, 54, 561-568.	0.6	19
115	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
116	Bacterial nitrification activity directly associated with isolated benthic marine animals. Marine Biology, 2004, 144, 1029-1037.	0.7	80
117	Recovery of the macrobenthic community in the Valli di Comacchio, northern Adriatic Sea, Italy. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2003, 26, 67-75.	0.7	36
118	Decomposition dynamics of the bloom forming macroalga Ulva rigida C. Agardh determined using a -carbon radio-tracer technique. Aquatic Botany, 2003, 75, 111-122.	0.8	33
119	Impact of Commercial Clam Harvesting on Water Column and Sediment Physicochemical Characteristics and Macrobenthic Community Structure in a Lagoon (Sacca Di Goro) of the Po River Delta. Chemistry and Ecology, 2003, 19, 161-171.	0.6	24
120	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.	0.4	21
121	Title is missing!. Hydrobiologia, 2001, 455, 203-212.	1.0	130
122	Soil Denitrification, the Missing Piece in the Puzzle of Nitrogen Budget in Lowland Agricultural Basins. Ecosystems, 0, , 1.	1.6	0
123	ï»¿Invasive catfish in northern Italy and their impacts on waterbirds. NeoBiota, 0, 72, 109-128.	1.0	4