Marc Metian

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Future Feeds: Suggested Guidelines for Sustainable Development. Reviews in Fisheries Science and Aquaculture, 2022, 30, 271-279.	5.1	20
2	Evaluating Microplastic Experimental Design and Exposure Studies in Aquatic Organisms. Environmental Contamination Remediation and Management, 2022, , 69-85.	0.5	1
3	Pharmaceutical pollution of the world's rivers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	495
4	Mapping the spatial distribution of global mariculture production. Aquaculture, 2022, 553, 738066.	1.7	20
5	Two decades of seawater acidification experiments on tropical scleractinian corals: Overview, meta-analysis and perspectives. Marine Pollution Bulletin, 2022, 178, 113552.	2.3	4
6	Future Feeds: Suggested Guidelines for Sustainable Development. Reviews in Fisheries Science and Aquaculture, 2022, 30, 135-142.	5.1	26
7	Parental bleaching susceptibility leads to differences in larval fluorescence and dispersal potential in Pocillopora acuta corals. Marine Environmental Research, 2021, 163, 105200.	1.1	4
8	An effective method to assess the sorption dynamics of PCB radiotracers onto plastic and sediment microparticles. MethodsX, 2021, 8, 101395.	0.7	4
9	Time to rethink trophic levels in aquaculture policy. Reviews in Aquaculture, 2021, 13, 1583-1593.	4.6	31
10	Reimagining aquaculture in the Global South. Science, 2021, 372, 247-248.	6.0	3
11	Bioaccumulation kinetics and internal distribution of the fission products radiocaesium and radiostrontium in an estuarine crab. Journal of Hazardous Materials, 2021, 408, 124453.	6.5	8
12	Preferential grazing and repackaging of small polyethylene microplastic particles (≤SÂμm) by the ciliate Sterkiella sp Marine Environmental Research, 2021, 166, 105260.	1.1	8
13	Chemical Forms of Mercury in Blue Marlin Billfish: Implications for Human Exposure. Environmental Science and Technology Letters, 2021, 8, 405-411.	3.9	21
14	Global Plastic Pollution Observation System to Aid Policy. Environmental Science & Technology, 2021, 55, 7770-7775.	4.6	59
15	Bioaccumulation of Lithium Isotopes in Mussel Soft Tissues and Implications for Coastal Environments. ACS Earth and Space Chemistry, 2021, 5, 1407-1417.	1.2	27
16	More than local adaptation: high diversity of response to seawater acidification in seven coral species from the same assemblage in French Polynesia. Journal of the Marine Biological Association of the United Kingdom, 2021, 101, 675-683.	0.4	2
17	Environmental performance of blue foods. Nature, 2021, 597, 360-365.	13.7	233
18	Deoxygenation reduces growth rates and increases assimilation of essential trace metals in gilthead seabream (Sparus aurata). Environmental Pollution, 2021, 288, 117786.	3.7	2

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19	Large-scale survey of lithium concentrations in marine organisms. Science of the Total Environment, 2021, 751, 141453.	3.9	30
20	A multifaceted assessment of the effects of polyethylene microplastics on juvenile gilthead seabreams (Sparus aurata). Aquatic Toxicology, 2021, 241, 106004.	1.9	10
21	An experimental approach to assess the post-depositional mobility of 134Cs. Journal of Environmental Radioactivity, 2021, 240, 106753.	0.9	2
22	Mapping diversity of species in global aquaculture. Reviews in Aquaculture, 2020, 12, 1090-1100.	4.6	77
23	Aquaculture of marine ornamental fish: overview of the production trends and the role of academia in research progress. Reviews in Aquaculture, 2020, 12, 1217-1230.	4.6	39
24	Influence of food (ciliate and phytoplankton) on the trophic transfer of inorganic and methyl-mercury in the Pacific cupped oyster Crassostrea gigas. Environmental Pollution, 2020, 257, 113503.	3.7	9
25	Diet variably affects the trophic transfer of trace elements in the oyster Crassostrea gigas. Marine Environmental Research, 2020, 161, 105124.	1.1	1
26	Defining Seafood Safety in the Anthropocene. Environmental Science & Technology, 2020, 54, 8506-8508.	4.6	20
27	Anthropogenic stressors impact fish sensory development and survival via thyroid disruption. Nature Communications, 2020, 11, 3614.	5.8	42
28	Integrating Life Cycle and Impact Assessments to Map Food's Cumulative Environmental Footprint. One Earth, 2020, 3, 65-78.	3.6	16
29	Interplay between hormonal and morphological changes throughout a critical period of larval rearing in the orbicular batfish. Aquaculture Reports, 2020, 18, 100521.	0.7	0
30	Seafood Safety Revisited: Response to Comment on "Defining Seafood Safety in the Anthropocene― Environmental Science & Technology, 2020, 54, 12805-12806.	4.6	0
31	Ocean acidification effects on calcification and dissolution in tropical reef macroalgae. Coral Reefs, 2020, 39, 1635-1647.	0.9	15
32	Fish for Health: Improved Nutritional Quality of Cultured Fish for Human Consumption. Reviews in Fisheries Science and Aquaculture, 2020, 28, 449-458.	5.1	56
33	Metal(loid)s in superficial sediments from coral reefs of French Polynesia. Marine Pollution Bulletin, 2020, 155, 111175.	2.3	6
34	Intercomparison of four methods to estimate coral calcification under various environmental conditions. Biogeosciences, 2020, 17, 887-899.	1.3	4
35	Exploring New Frontiers in Marine Radioisotope Tracing – Adapting to New Opportunities and Challenges. Frontiers in Marine Science, 2020, 7, .	1.2	9
36	Effects of Virgin Micro- and Nanoplastics on Fish: Trends, Meta-Analysis, and Perspectives. Environmental Science & Technology, 2020, 54, 4733-4745.	4.6	165

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37	Effects of variable deoxygenation on trace element bioaccumulation and resulting metabolome profiles in the blue mussel (Mytilus edulis). Chemosphere, 2020, 250, 126314.	4.2	12
38	Leaching of flame-retardants from polystyrene debris: Bioaccumulation and potential effects on coral. Marine Pollution Bulletin, 2020, 151, 110862.	2.3	47
39	Physiological stress response of the scleractinian coral Stylophora pistillata exposed to polyethylene microplastics. Environmental Pollution, 2020, 263, 114559.	3.7	59
40	Trophic transfer of trace elements in a euryhaline fish, the turbot Scophthalmus maximus: Contrasting effects of salinity on two essential elements. Marine Pollution Bulletin, 2020, 154, 111065.	2.3	3
41	Preferential adsorption of Cd, Cs and Zn onto virgin polyethylene microplastic versus sediment particles. Marine Pollution Bulletin, 2020, 156, 111223.	2.3	33
42	Global adoption of novel aquaculture feeds could substantially reduce forage fish demand by 2030. Nature Food, 2020, 1, 301-308.	6.2	148
43	Influence of pH on Pb accumulation in the blue mussel, Mytilus edulis. Marine Pollution Bulletin, 2020, 156, 111203.	2.3	4
44	Biokinetics of the anionic surfactant linear alkylbenzene sulfonate (LAS) in the marine fish Sparus aurata: Investigation via seawater and food exposure pathways. Aquatic Toxicology, 2019, 216, 105316.	1.9	5
45	Putting all foods on the same table: Achieving sustainable food systems requires full accounting. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18152-18156.	3.3	66
46	Dealing with the effects of ocean acidification on coral reefs in the Indian Ocean and Asia. Regional Studies in Marine Science, 2019, 28, 100560.	0.4	17
47	No Effect of Polystyrene Microplastics on Foraging Activity and Survival in a Post-larvae Coral-Reef Fish, Acanthurus triostegus. Bulletin of Environmental Contamination and Toxicology, 2019, 102, 457-461.	1.3	24
48	Radiocesium accumulation in aquatic organisms: A global synthesis from an experimentalist's perspective. Journal of Environmental Radioactivity, 2019, 198, 147-158.	0.9	24
49	The role of marine biotoxins on the trophic transfer of Mn and Zn in fish. Aquatic Toxicology, 2018, 198, 198-205.	1.9	3
50	Interspecific comparison of radiocesium trophic transfer in two tropical fish species. Journal of Environmental Radioactivity, 2018, 189, 261-265.	0.9	6
51	High contribution of the particulate uptake pathway to metal bioaccumulation in the tropical marine clam Gafrarium pectinatum. Environmental Science and Pollution Research, 2018, 25, 11206-11218.	2.7	5
52	Investigations of temperature and pH variations on metal trophic transfer in turbot (Scophthalmus) Tj ETQq0 0 () rgBT /Ov 2:7	verlgck 10 Tf 5
53	Food Matters: Fish, Income, and Food Supply—A Comparative Analysis. Reviews in Fisheries Science and Aquaculture, 2018, 26, 15-28.	5.1	48

54Radical ocean futures-scenario development using science fiction prototyping. Futures, 2018, 95, 22-32.1.487

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55	An attainable global vision for conservation and human wellâ€being. Frontiers in Ecology and the Environment, 2018, 16, 563-570.	1.9	71
56	A double-tracer radioisotope approach to assess simultaneous bioaccumulation of caesium in the olive flounder Paralichthys olivaceus. Journal of Environmental Radioactivity, 2018, 190-191, 141-148.	0.9	7
57	The role of salinity in the trophic transfer of 137Cs in euryhaline fish. Journal of Environmental Radioactivity, 2018, 189, 255-260.	0.9	14
58	Application of nuclear techniques to environmental plastics research. Journal of Environmental Radioactivity, 2018, 192, 368-375.	0.9	36
59	A study of the influence of brevetoxin exposure on trace element bioaccumulation in the blue mussel Mytilus edulis. Journal of Environmental Radioactivity, 2018, 192, 250-256.	0.9	2
60	The absence of the pCO2 effect on dissolved 134Cs uptake in select marine organisms. Journal of Environmental Radioactivity, 2018, 192, 10-13.	0.9	3
61	Effects of ocean acidification on 109Cd, 57Co, and 134Cs bioconcentration by the European oyster (Ostrea edulis): Biokinetics and tissue-to-subcellular partitioning. Journal of Environmental Radioactivity, 2018, 192, 376-384.	0.9	14
62	Allometric relationship in the bioaccumulation of radionuclides (134Cs & 241Am) and delineation of contamination pathways (food and seawater) in bloody cockle Anadara senilis using radiotracer techniques. Journal of Environmental Radioactivity, 2018, 192, 448-453.	0.9	3
63	Decreased retention of olfactory predator recognition in juvenile surgeon fish exposed to pesticide. Chemosphere, 2018, 208, 469-475.	4.2	8
64	Overview of trace element trophic transfer in fish through the concept of assimilation efficiency. Marine Ecology - Progress Series, 2018, 588, 243-254.	0.9	23
65	Aquatic live animal radiotracing studies for ecotoxicological applications: Addressing fundamental methodological deficiencies. Journal of Environmental Radioactivity, 2017, 178-179, 453-460.	0.9	31
66	The `seafood gap' in the food-water nexus literature—issues surrounding freshwater use in seafood production chains. Advances in Water Resources, 2017, 110, 505-514.	1.7	55
67	Dietary Zn and the subsequent organotropism in fish: No influence of food quality, frequency of feeding and environmental conditions (pH and temperature). Chemosphere, 2017, 183, 503-509.	4.2	7
68	Trophic transfer of 134 Cs in the Manila clam Ruditapes philippinarum. Journal of Environmental Radioactivity, 2017, 177, 165-168.	0.9	4
69	210Po bioaccumulation and trophic transfer in marine food chains in the northern Arabian Gulf. Journal of Environmental Radioactivity, 2017, 174, 23-29.	0.9	36
70	Comparative study of trophic transfer of the essential metals Co and Zn in two tropical fish: A radiotracer approach. Journal of Experimental Marine Biology and Ecology, 2017, 486, 42-51.	0.7	16
71	Comparing singleâ€feeding and multiâ€feeding approaches for experimentally assessing trophic transfer of metals in fish. Environmental Toxicology and Chemistry, 2017, 36, 1227-1234. 	2.2	6
72	Trophic transfer of essential elements in the clownfish Amphiprion ocellaris in the context of ocean acidification. PLoS ONE, 2017, 12, e0174344.	1.1	7

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73	First description of the neuroâ€anatomy of a larval coral reef fish <i>Amphiprion ocellaris</i> . Journal of Fish Biology, 2016, 89, 1583-1591.	0.7	Ο
74	Bioconcentration of Ag, Cd, Co, Mn and Zn in the Mangrove Oyster (Crassostrea gasar) and Preliminary Human Health Risk Assessment: A Radiotracer Study. Bulletin of Environmental Contamination and Toxicology, 2016, 97, 413-417.	1.3	5
75	Bioaccumulation of 63 Ni in the scleractinian coral Stylophora pistillata and isolated Symbiodinium using radiotracer techniques. Chemosphere, 2016, 156, 420-427.	4.2	10
76	Prawn biomonitors of nutrient and trace metal pollution along Asia-Pacific coastlines. Isotopes in Environmental and Health Studies, 2016, 52, 619-632.	0.5	3
77	Gills as a glutathione-dependent metabolic barrier in Pacific oysters Crassostrea gigas : Absorption, metabolism and excretion of a model electrophile. Aquatic Toxicology, 2016, 173, 105-119.	1.9	32
78	Differential bioaccumulation of 134Cs in tropical marine organisms and the relative importance of exposure pathways. Journal of Environmental Radioactivity, 2016, 152, 127-135.	0.9	32
79	Limited effects of increased CO2 and temperature on metal and radionuclide bioaccumulation in a sessile invertebrate, the oyster Crassostrea gigas. ICES Journal of Marine Science, 2016, 73, 753-763.	1.2	25
80	Influence of food on the assimilation of essential elements (Co, Mn, and Zn) by turbot Scophthalmus maximus. Marine Ecology - Progress Series, 2016, 550, 207-218.	0.9	19
81	Trophic transfer of 110m Ag in the turbot Scophthalmus maximus through natural prey and compounded feed. Journal of Environmental Radioactivity, 2015, 150, 189-194.	0.9	14
82	China's aquaculture and the world's wild fisheries. Science, 2015, 347, 133-135.	6.0	315
83	Feed Matters: Satisfying the Feed Demand of Aquaculture. Reviews in Fisheries Science and Aquaculture, 2015, 23, 1-10.	5.1	395
84	Delineation of 134 Cs uptake pathways (seawater and food) in the variegated scallop Mimachlamys varia. Journal of Environmental Radioactivity, 2015, 148, 74-79.	0.9	13
85	Metal bioconcentration in the scleractinian coral Stylophora pistillata: investigating the role of different components of the holobiont using radiotracers. Environmental Monitoring and Assessment, 2015, 187, 178.	1.3	15
86	Seasonal Survey of Contaminants (Cd and Hg) and Micronutrients (Cu and Zn) in Edible Tissues of Cephalopods from Tunisia: Assessment of Risk and Nutritional Benefits. Journal of Food Science, 2015, 80, T199-206.	1.5	20
87	Three necessary conditions for establishing effective Sustainable Development Goals in the Anthropocene. Ecology and Society, 2014, 19, .	1.0	52
88	Comment on †Water footprint of marine protein consumption—aquaculture's link to agriculture'. Environmental Research Letters, 2014, 9, 109001.	2.2	16
89	Interspecific and geographical variations of trace metal concentrations in cephalopods from Tunisian waters. Environmental Monitoring and Assessment, 2014, 186, 3767-3783.	1.3	27
90	Farming of Bluefin Tuna–Reconsidering Global Estimates and Sustainability Concerns. Reviews in Fisheries Science and Aquaculture, 2014, 22, 184-192.	5.1	27

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91	Does aquaculture add resilience to the global food system?. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13257-13263.	3.3	468
92	Bioconcentration of the anionic surfactant linear alkylbenzene sulfonate (LAS) in the marine shrimp Palaemonetes varians: A radiotracer study. Marine Pollution Bulletin, 2014, 85, 244-247.	2.3	18
93	An ocean of surprises – Trends in human use, unexpected dynamics and governance challenges in areas beyond national jurisdiction. Global Environmental Change, 2014, 27, 19-31.	3.6	103
94	To What Extent Do Food Preferences Explain the Trophic Position of Heterotrophic and Mixotrophic Microbial Consumers in a Sphagnum Peatland?. Microbial Ecology, 2013, 66, 571-580.	1.4	57
95	Trace element bioaccumulation in reef fish from New Caledonia: Influence of trophic groups and risk assessment for consumers. Marine Environmental Research, 2013, 87-88, 26-36.	1.1	56
96	Modeling Social–Ecological Scenarios in Marine Systems. BioScience, 2013, 63, 735-744.	2.2	13
97	Fish Matters: Importance of Aquatic Foods in Human Nutrition and Global Food Supply. Reviews in Fisheries Science, 2013, 21, 22-38.	2.1	400
98	Meeting the food and nutrition needs of the poor: the role of fish and the opportunities and challenges emerging from the rise of aquaculture ^a . Journal of Fish Biology, 2013, 83, 1067-1084.	0.7	242
99	Ecotoxicological approach for assessing the contamination of a Hawaiian coral reef ecosystem (Honolua Bay, Maui) by metals and a metalloid. Marine Environmental Research, 2011, 71, 149-161.	1.1	12
100	Characterization of 241Am and 134Cs bioaccumulation in the king scallop Pecten maximus: investigation via three exposure pathways. Journal of Environmental Radioactivity, 2011, 102, 543-550.	0.9	37
101	Influence of food on the assimilation of selected metals in tropical bivalves from the New Caledonia lagoon: Qualitative and quantitative aspects. Marine Pollution Bulletin, 2010, 61, 568-575.	2.3	24
102	Metal and metalloid bioaccumulation in the Pacific blue shrimp Litopenaeus stylirostris (Stimpson) from New Caledonia: Laboratory and field studies. Marine Pollution Bulletin, 2010, 61, 576-584.	2.3	39
103	Metal and metalloid bioconcentration capacity of two tropical bivalves for monitoring the impact of land-based mining activities in the New Caledonia lagoon. Marine Pollution Bulletin, 2010, 61, 554-567.	2.3	17
104	Delineation of heavy metal contamination pathways (seawater, food and sediment) in tropical oysters from New Caledonia using radiotracer techniques. Marine Pollution Bulletin, 2010, 61, 542-553.	2.3	40
105	Delineation of Pb contamination pathways in two Pectinidae: The variegated scallop Chlamys varia and the king scallop Pecten maximus. Science of the Total Environment, 2009, 407, 3503-3509.	3.9	24
106	Biokinetics of Hg and Pb accumulation in the encapsulated egg of the common cuttlefish Sepia officinalis: Radiotracer experiments. Science of the Total Environment, 2009, 407, 6188-6195.	3.9	19
107	Bioaccumulation of essential metals (Co, Mn and Zn) in the king scallop Pecten maximus: seawater, food and sediment exposures. Marine Biology, 2009, 156, 2063-2075.	0.7	35
108	Assessment of metal, metalloid, and radionuclide bioaccessibility from mussels to human consumers, using centrifugation and simulated digestion methods coupled with radiotracer techniques. Ecotoxicology and Environmental Safety, 2009, 72, 1499-1502.	2.9	56

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109	Responsible Aquaculture and Trophic Level Implications to Global Fish Supply. Reviews in Fisheries Science, 2009, 18, 94-105.	2.1	124
110	Fishing for Aquaculture: Non-Food Use of Small Pelagic Forage Fish—A Global Perspective. Reviews in Fisheries Science, 2009, 17, 305-317.	2.1	138
111	Fishing for Feed or Fishing for Food: Increasing Global Competition for Small Pelagic Forage Fish. Ambio, 2009, 38, 294-302.	2.8	210
112	Delineation of heavy metal uptake pathways (seawater and food) in the variegated scallop Chlamys varia, using radiotracer techniques. Marine Ecology - Progress Series, 2009, 375, 161-171.	0.9	34
113	The Tropical Brown Alga Lobophora variegata (Lamouroux) Womersley: A Prospective Bioindicator for Ag Contamination in Tropical Coastal Waters. Bulletin of Environmental Contamination and Toxicology, 2008, 81, 455-458.	1.3	13
114	Aquaculture Feed and Food Safety. Annals of the New York Academy of Sciences, 2008, 1140, 50-59.	1.8	61
115	The brown alga Lobophora variegata, a bioindicator species for surveying metal contamination in tropical marine environments. Journal of Experimental Marine Biology and Ecology, 2008, 362, 49-54.	0.7	23
116	Investigation of Ag in the king scallop Pecten maximus using field and laboratory approaches. Journal of Experimental Marine Biology and Ecology, 2008, 367, 53-60.	0.7	30
117	Global overview on the use of fish meal and fish oil in industrially compounded aquafeeds: Trends and future prospects. Aquaculture, 2008, 285, 146-158.	1.7	1,520
118	Bioaccumulation and detoxification processes of Hg in the king scallop Pecten maximus: Field and laboratory investigations. Aquatic Toxicology, 2008, 90, 204-213.	1.9	28
119	Accumulation of nine metals and one metalloid in the tropical scallop Comptopallium radula from coral reefs in New Caledonia. Environmental Pollution, 2008, 152, 543-552.	3.7	93
120	Nickel bioaccumulation in bivalves from the New Caledonia lagoon: Seawater and food exposure. Chemosphere, 2007, 66, 1449-1457.	4.2	62
121	Bioaccumulation of Dissolved Arsenic in the Oyster <i>Crassostrea virginica</i> : A Radiotracer Study. Environmental Bioindicators, 2007, 2, 237-244.	0.4	9
122	Interspecific comparison of Cd bioaccumulation in European Pectinidae (Chlamys varia and Pecten) Tj ETQq0 0 C) rgBT /Ov	erlock 10 Tf 5
123	Experimental evidence for 234Th bioaccumulation in three Antarctic crustaceans: Potential implications for particle flux studies. Marine Chemistry, 2006, 100, 354-365.	0.9	42
124	Allometric relationships in the bioconcentration of heavy metals by the edible tropical clam Gafrarium tumidum. Science of the Total Environment, 2006, 366, 154-163.	3.9	48

125	Use of Radiotracer Techniques to Study Subcellular Distribution of Metals and Radionuclides in Bivalves from the Noumea Lagoon, New Calendonia. Bulletin of Environmental Contamination and Toxicology, 2005, 75, 89-93.	1.3	25
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