Catriona Ka Macleod

List of Publications by Year
in descending order

50 papers	1,527 citations	279798 23 h-index	315739 38 g-index
51 all docs	51 docs citations	51 times ranked	1905 citing authors

#	Article	IF	Citations
1	Effects of shellfish farming on the benthic environment. Aquaculture, 2003, 224, 117-140.	3.5	197
2	A practical framework for implementing and evaluating integrated management of marine activities. Ocean and Coastal Management, 2019, 177, 127-138.	4.4	73
3	Exploiting salmon farm benthic enrichment gradients to evaluate the regional performance of biotic indices and environmental indicators. Ecological Indicators, 2012, 23, 453-466.	6.3	65
4	Assessment of long term change in sediment condition after organic enrichment: defining recovery. Marine Pollution Bulletin, 2004, 49, 79-88.	5.0	61
5	Broad-scale effects of marine salmonid aquaculture on macrobenthos and the sediment environment in southeastern Tasmania. Journal of Experimental Marine Biology and Ecology, 2005, 327, 70-90.	1.5	61
6	Measuring hypoxia induced metal release from highly contaminated estuarine sediments during a 40day laboratory incubation experiment. Science of the Total Environment, 2012, 420, 229-237.	8.0	61
7	Macrophytes as bioindicators of heavy metal pollution in estuarine and coastal environments. Marine Pollution Bulletin, 2018, 128, 175-184.	5.0	59
8	A global analysis of complexityâ€“biodiversity relationships on marine artificial structures. Global Ecology and Biogeography, 2021, 30, 140-153.	5.8	56
9	Progress in integrating natural and social science in marine ecosystem-based management research. Marine and Freshwater Research, 2019, 70, 71.	1.3	53
10	Novel observations of benthic enrichment in contrasting flow regimes with implications for marine farm monitoring and management. Marine Pollution Bulletin, 2013, 66, 105-116.	5.0	49
11	Predictive depositional modelling (DEPOMOD) of the interactive effect of current flow and resuspension on ecological impacts beneath salmon farms. Aquaculture Environment Interactions, 2013, 3, 275-291.	1.8	45
12	Spatial and temporal dynamics in macrobenthos during recovery from salmon farm induced organic enrichment: When is recovery complete?. Marine Pollution Bulletin, 2014, 80, 250-262.	5.0	44
13	Autonomous adaptation to climate-driven change in marine biodiversity in a global marine hotspot. Ambio, 2019, 48, 1498-1515.	5.5	41
14	Combining best professional judgement and quantile regression splines to improve characterisation of macrofaunal responses to enrichment. Ecological Indicators, 2012, 12, 154-166.	6.3	40
15	Modeling macroalgae growth and nutrient dynamics for integrated multi-trophic aquaculture. Journal of Applied Phycology, 2015, 27, 901-916.	2.8	39
16	Metal and Isotope Analysis of Bird Feathers in a Contaminated Estuary Reveals Bioaccumulation, Biomagnification, and Potential Toxic Effects. Archives of Environmental Contamination and Toxicology, 2018, 75, 96-110.	4.1	39
17	Video assessment of environmental impacts of salmon farms. ICES Journal of Marine Science, 2001, 58, 445-452.	2.5	38
18	Biological recovery from organic enrichment: some systems cope better than others. Marine Ecology - Progress Series, 2007, 342, 41-53.	1.9	38

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19	High contents of 24:6(n-3) and 20:1(n-13) fatty acids in the brittle star Amphiura elandiformis from Tasmanian coastal sediments. Biochemical Systematics and Ecology, 2005, 33, 659-674.	1.3	35
20	Detection of organic enrichment near finfish net-pens by sediment profile imaging at SCUBA-accessible depths. Journal of Experimental Marine Biology and Ecology, 2003, 285-286, 403-413.	1.5	31
21	Cleaner seas: reducing marine pollution. Reviews in Fish Biology and Fisheries, 2022, 32, 145-160.	4.9	31
22	Evaluation of short-term fallowing as a strategy for the management of recurring organic enrichment under salmon cages. Marine Pollution Bulletin, 2006, 52, 1458-1466.	5.0	30
23	Implications of Age, Size and Region on Mercury Contamination in Estuarine Fish Species. Water, Air, and Soil Pollution, 2011, 214, 297-306.	2.4	26
24	Benthic recovery and re-impact responses from salmon farm enrichment: Implications for farm management. Aquaculture, 2015, 435, 412-423.	3.5	23
25	In situ assessment of Ulva australis as a monitoring and management tool for metal pollution. Journal of Applied Phycology, 2017, 29, 2489-2502.	2.8	22
26	Ecological and functional changes associated with long-term recovery from organic enrichment. Marine Ecology - Progress Series, 2008, 365, 17-24.	1.9	22
27	Influence of a burrowing, metal-tolerant polychaete on benthic metabolism, denitrification and nitrogen regeneration in contaminated estuarine sediments. Marine Pollution Bulletin, 2013, 68, 30-37.	5.0	21
28	Heavy metal pollution in the Derwent estuary: History, science and management. Regional Studies in Marine Science, 2019, 32, 100866.	0.7	19
29	Long term trends of Hg uptake in resident fish from a polluted estuary. Marine Pollution Bulletin, 2013, 73, 263-272.	5.0	18
30	Complex patterns in fish â€“ sediment mercury concentrations in a contaminated estuary: The influence of selenium co-contamination?. Estuarine, Coastal and Shelf Science, 2014, 137, 14-22.	2.1	18
31	Building blue infrastructure: Assessing the key environmental issues and priority areas for ecological engineering initiatives in Australia's metropolitan embayments. Journal of Environmental Management, 2019, 230, 488-496.	7.8	18
32	Effects of organic perturbation on marine sediment betaproteobacterial ammonia oxidizers and on benthic nitrogen biogeochemistry. Marine Ecology - Progress Series, 2009, 392, 17-32.	1.9	16
33	Distribution of Neoparamoeba sp. in sediments around marine finfish farming sites in Tasmania. Diseases of Aquatic Organisms, 2005, 67, 61-66.	1.0	15
34	Application of stable isotope mixing models for defining trophic biomagnification pathways of mercury and selenium. Limnology and Oceanography, 2014, 59, 1181-1192.	3.1	14
35	A global atlas of the environmental risk of marinas on water quality. Marine Pollution Bulletin, 2019, 149, 110661.	5.0	14
36	Quantification of the impacts of finfish aquaculture and bioremediation capacity of integrated multi-trophic aquaculture using a 3D estuary model. Journal of Applied Phycology, 2016, 28, 1875-1889.	2.8	13

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37	Spatial variability in selenium and mercury interactions in a key recreational fish species: Implications for human health and environmental monitoring. Marine Pollution Bulletin, 2013, 74, 231-236.	5.0	11
38	Fine-tuning transmission electron microscopy methods to evaluate the cellular architecture of Ulvacean seaweeds (Chlorophyta). Micron, 2017, 96, 48-56.	2.2	11
39	Investigation of broad scale implementation of integrated multitrophic aquaculture using a 3D model of an estuary. Marine Pollution Bulletin, 2018, 133, 448-459.	5.0	11
40	Technology selectionâ€"the impact of economic risk on decision making. Aquaculture, Economics and Management, 2018, 22, 383-409.	4.2	9
41	A global approach to mapping the environmental risk of harbours on aquatic systems. Marine Policy, 2020, 119, 104051.	3.2	7
42	Photosynthetic and ultrastructural responses of Ulva australis to Zn stress. Micron, 2017, 103, 45-52.	2.2	6
43	Comparison of three potential methods for accelerating seabed recovery beneath salmon farms. Aquaculture, 2017, 479, 652-666.	3.5	6
44	Influence of small-scale patchiness on resilience of nutrient cycling to extended hypoxia in estuarine sediments. Marine Ecology - Progress Series, 2012, 453, 49-62.	1.9	5
45	A Bayesian inference approach to account for multiple sources of uncertainty in a macroalgae based integrated multi-trophic aquaculture model. Environmental Modelling and Software, 2016, 78, 120-133.	4.5	4
46	Effects of oyster farming service vehicles on an intertidal sand flat. Aquaculture Research, 2009, 40, 772-780.	1.8	2
47	Predicting and assessing the environmental impact of aquaculture. , 2009, , 679-706.		1
48	Making better decisions: Utilizing qualitative signed digraphs modeling to enhance aquaculture production technology selection. Marine Policy, 2018, 91, 22-33.	3.2	1
49	Chemical pollutants in the marine environment: causes, effects, and challenges. , 2016, , 228-246.		1
50	Ulva australis as a tool for monitoring metal-polluted estuarine system; spatial and temporal considerations. Global Nest Journal, 2018, , .	0.1	0