

# Matthieu Leray

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,922  
citations

331538

21  
h-index

345118

36  
g-index

40  
all docs

40  
docs citations

40  
times ranked

3726  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new versatile primer set targeting a short fragment of the mitochondrial COI region for metabarcoding metazoan diversity: application for characterizing coral reef fish gut contents. <i>Frontiers in Zoology</i> , 2013, 10, 34.	0.9	955
2	DNA barcoding and metabarcoding of standardized samples reveal patterns of marine benthic diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2076-2081.	3.3	409
3	Censusing marine eukaryotic diversity in the twenty-first century. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150331.	1.8	149
4	Metazoan mitochondrial gene sequence reference datasets for taxonomic assignment of environmental samples. <i>Scientific Data</i> , 2017, 4, 170027.	2.4	142
5	GenBank is a reliable resource for 21st century biodiversity research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22651-22656.	3.3	142
6	Random sampling causes the low reproducibility of rare eukaryotic OTUs in Illumina COI metabarcoding. <i>PeerJ</i> , 2017, 5, e3006.	0.9	120
7	Host-associated microbiomes drive structure and function of marine ecosystems. <i>PLoS Biology</i> , 2019, 17, e3000533.	2.6	103
8	Metabarcoding dietary analysis of coral dwelling predatory fish demonstrates the minor contribution of coral mutualists to their highly partitioned, generalist diet. <i>PeerJ</i> , 2015, 3, e1047.	0.9	90
9	The importance of standardization for biodiversity comparisons: A case study using autonomous reef monitoring structures (ARMS) and metabarcoding to measure cryptic diversity on Moorea coral reefs, French Polynesia. <i>PLoS ONE</i> , 2017, 12, e0175066.	1.1	75
10	Effectiveness of Annealing Blocking Primers versus Restriction Enzymes for Characterization of Generalist Diets: Unexpected Prey Revealed in the Gut Contents of Two Coral Reef Fish Species. <i>PLoS ONE</i> , 2013, 8, e58076.	1.1	72
11	Environmental DNA survey captures patterns of fish and invertebrate diversity across a tropical seascape. <i>Scientific Reports</i> , 2020, 10, 6729.	1.6	60
12	Trade-offs between reducing complex terminology and producing accurate interpretations from environmental DNA: Comment on "Environmental DNA: What's behind the term?" by Pawlowski et al., (2020). <i>Molecular Ecology</i> , 2021, 30, 4601-4605.	2.0	60
13	Cross-shelf investigation of coral reef cryptic benthic organisms reveals diversity patterns of the hidden majority. <i>Scientific Reports</i> , 2018, 8, 8090.	1.6	58
14	Moorea BIOCOTE barcode library as a tool for understanding predator-prey interactions: insights into the diet of common predatory coral reef fishes. <i>Coral Reefs</i> , 2012, 31, 383-388.	0.9	49
15	MIDORI server: a webserver for taxonomic assignment of unknown metazoan mitochondrial-encoded sequences using a curated database. <i>Bioinformatics</i> , 2018, 34, 3753-3754.	1.8	49
16	Rapid ecosystem-scale consequences of acute deoxygenation on a Caribbean coral reef. <i>Nature Communications</i> , 2021, 12, 4522.	5.8	42
17	<i>Acanthaster planci</i> Outbreak: Decline in Coral Health, Coral Size Structure Modification and Consequences for Obligate Decapod Assemblages. <i>PLoS ONE</i> , 2012, 7, e35456.	1.1	40
18	Deep COI sequencing of standardized benthic samples unveils overlooked diversity of Jordanian coral reefs in the northern Red Sea. <i>Genome</i> , 2016, 59, 724-737.	0.9	35

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19	Housekeeping Mutualisms: Do More Symbionts Facilitate Host Performance?. <i>PLoS ONE</i> , 2012, 7, e32079.	1.1	33
20	Preparation of Amplicon Libraries for Metabarcoding of Marine Eukaryotes Using Illumina MiSeq: The Dual-PCR Method. <i>Methods in Molecular Biology</i> , 2016, 1452, 197-207.	0.4	33
21	Dietary partitioning promotes the coexistence of planktivorous species on coral reefs. <i>Molecular Ecology</i> , 2019, 28, 2694-2710.	2.0	30
22	MIDORI2: A collection of quality controlled, preformatted, and regularly updated reference databases for taxonomic assignment of eukaryotic mitochondrial sequences. <i>Environmental DNA</i> , 2022, 4, 894-907.	3.1	30
23	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181307.	1.2	20
24	Natural experiments and long-term monitoring are critical to understand and predict marine host-microbe ecology and evolution. <i>PLoS Biology</i> , 2021, 19, e3001322.	2.6	17
25	Metabarcoding the marine environment: from single species to biogeographic patterns. <i>Environmental DNA</i> , 2022, 4, 3-8.	3.1	17
26	Preparation of Amplicon Libraries for Metabarcoding of Marine Eukaryotes Using Illumina MiSeq: The Adapter Ligation Method. <i>Methods in Molecular Biology</i> , 2016, 1452, 209-218.	0.4	16
27	Global biogeography of chemosynthetic symbionts reveals both localized and globally distributed symbiont groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
28	Predators alter community organization of coral reef cryptofauna and reduce abundance of coral mutualists. <i>Coral Reefs</i> , 2014, 33, 181-191.	0.9	12
29	Visualizing Patterns of Marine Eukaryotic Diversity from Metabarcoding Data Using QIIME. <i>Methods in Molecular Biology</i> , 2016, 1452, 219-235.	0.4	9
30	Hyperdiverse Macrofauna Communities Associated with a Common Sponge, <i>Stylissa carteri</i> , Shift across Ecological Gradients in the Central Red Sea. <i>Diversity</i> , 2019, 11, 18.	0.7	8
31	Reply to Locatelli et al.: Evaluating species-level accuracy of GenBank metazoan sequences will require experts' effort in each group. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32213-32214.	3.3	7
32	Isolation and characterization of 13 polymorphic nuclear microsatellite primers for the widespread Indo-Pacific threespot damselfish, <i>Dascyllus trimaculatus</i> , and closely related <i>D. auripinnis</i> . <i>Molecular Ecology Resources</i> , 2009, 9, 213-215.	2.2	6
33	Five new records of marine shrimps (Decapoda: Caridea, Stenopodidea) from the Caribbean coast of Panama. <i>Zootaxa</i> , 2018, 4438, 128.	0.2	5
34	DNA metabarcoding provides insights into the diverse diet of a dominant suspension feeder, the giant plumose anemone <i>Metridium farcimen</i> . <i>Environmental DNA</i> , 2022, 4, 147-156.	3.1	5
35	Recent and old duplications in crustaceans' Internal Transcribed Spacer 1: structural and phylogenetic implications. <i>Molecular Biology Reports</i> , 2019, 46, 5185-5195.	1.0	3
36	Seabed mining could come at a high price for a unique fauna. <i>Molecular Ecology</i> , 2020, 29, 4506-4509.	2.0	1

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37	The Coral Reef Sentinels Program: A Mars Shot for Blue Planetary Health. Marine Technology Society Journal, 2021, 55, 118-119.	0.3	0