

Filipe Costa

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

3,246
citations

236925

25
h-index

182427

51
g-index

90
all docs

90
docs citations

90
times ranked

3423
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological identifications through DNA barcodes: the case of the Crustacea. Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 272-295.	1.4	419
2	DNA barcode reference libraries for the monitoring of aquatic biota in Europe: Gap-analysis and recommendations for future work. Science of the Total Environment, 2019, 678, 499-524.	8.0	336
3	DNAqua-Net: Developing new genetic tools for bioassessment and monitoring of aquatic ecosystems in Europe. Research Ideas and Outcomes, 0, 2, e11321.	1.0	154
4	Systematic and Evolutionary Insights Derived from mtDNA COI Barcode Diversity in the Decapoda (Crustacea: Malacostraca). PLoS ONE, 2011, 6, e19449.	2.5	139
5	Enhanced primers for amplification of DNA barcodes from a broad range of marine metazoans. BMC Ecology, 2013, 13, 34.	3.0	130
6	Why We Need Sustainable Networks Bridging Countries, Disciplines, Cultures and Generations for Aquatic Biomonitoring 2.0: A Perspective Derived From the DNAqua-Net COST Action. Advances in Ecological Research, 2018, 58, 63-99.	2.7	120
7	Probing marine <i>Gammarus</i> (Amphipoda) taxonomy with DNA barcodes. Systematics and Biodiversity, 2009, 7, 365-379.	1.2	104
8	A reliable DNA barcode reference library for the identification of the North European shelf fish fauna. Molecular Ecology Resources, 2014, 14, 1060-1071.	4.8	93
9	DNA Barcoding for Species Assignment: The Case of Mediterranean Marine Fishes. PLoS ONE, 2014, 9, e106135.	2.5	92
10	Effects of temperature and salinity on life history of the marine amphipod <i>Gammarus locusta</i> . Implications for ecotoxicological testing. Ecotoxicology, 2002, 11, 61-73.	2.4	91
11	A Ranking System for Reference Libraries of DNA Barcodes: Application to Marine Fish Species from Portugal. PLoS ONE, 2012, 7, e35858.	2.5	89
12	DNA barcodes of fish of the Scotia Sea, Antarctica indicate priority groups for taxonomic and systematics focus. Antarctic Science, 2008, 20, 253-262.	0.9	84
13	DNA barcoding of shared fish species from the North Atlantic and Australasia: minimal divergence for most taxa, but <i>Zeus faber</i> and <i>Lepidopus caudatus</i> each probably constitute two species. Aquatic Biology, 2008, 3, 71-78.	1.4	80
14	Life history of the amphipod <i>Gammarus locusta</i> in the Sado estuary (Portugal). Acta Oecologica, 1999, 20, 305-314.	1.1	66
15	DNA metabarcoding for high-throughput monitoring of estuarine macrobenthic communities. Scientific Reports, 2017, 7, 15618.	3.3	65
16	Multi-level assessment of chronic toxicity of estuarine sediments with the amphipod <i>Gammarus locusta</i> : I. Biochemical endpoints. Marine Environmental Research, 2005, 60, 69-91.	2.5	64
17	Environmental DNA metabarcoding for benthic monitoring: A review of sediment sampling and DNA extraction methods. Science of the Total Environment, 2022, 818, 151783.	8.0	62
18	The Barcode of Life Initiative: synopsis and prospective societal impacts of DNA barcoding of Fish. Genomics Society and Policy, 2007, 3, 1.	0.2	61

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19	Acute Marine Sediment Toxicity: A Potential New Test with the Amphipod <i>Gammarus locusta</i> . <i>Ecotoxicology and Environmental Safety</i> , 1998, 40, 81-87.	6.0	58
20	Starting a <scp>DNA</scp> barcode reference library for shallow water polychaetes from the southern European Atlantic coast. <i>Molecular Ecology Resources</i> , 2016, 16, 298-313.	4.8	58
21	Multi-level assessment of chronic toxicity of estuarine sediments with the amphipod <i>Gammarus locusta</i> : II. Organism and population-level endpoints. <i>Marine Environmental Research</i> , 2005, 60, 93-110.	2.5	52
22	Investigating the taxonomy and systematics of marine wood borers (Bivalvia : Teredinidae) combining evidence from morphology, DNA barcodes and nuclear locus sequences. <i>Invertebrate Systematics</i> , 2012, 26, 572.	1.3	46
23	Perchlorate in fish from a contaminated site in east-central Texas. <i>Environmental Pollution</i> , 2006, 139, 59-69.	7.5	35
24	Contrasting morphological and DNA barcode-suggested species boundaries among shallow-water amphipod fauna from the southern European Atlantic coast. <i>Genome</i> , 2017, 60, 147-157.	2.0	34
25	BAGS: An automated Barcode, Audit & Grade System for DNA barcode reference libraries. <i>Molecular Ecology Resources</i> , 2021, 21, 573-583.	4.8	33
26	Endosulfan-Induced Genotoxicity Detected in the Gilthead Seabream, <i>Sparus aurata</i> L., by Means of Flow Cytometry and Micronuclei Assays. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2006, 76, 242-248.	2.7	31
27	Assembling and auditing a comprehensive <scp>DNA</scp> barcode reference library for European marine fishes. <i>Journal of Fish Biology</i> , 2016, 89, 2741-2754.	1.6	30
28	Metadata standards and practical guidelines for specimen and DNA curation when building barcode reference libraries for aquatic life. <i>Metabarcoding and Metagenomics</i> , 0, 5, .	0.0	29
29	With a little help from DNA barcoding: investigating the diversity of Gastropoda from the Portuguese coast. <i>Scientific Reports</i> , 2016, 6, 20226.	3.3	28
30	Status and prospects of marine NIS detection and monitoring through (e)DNA metabarcoding. <i>Science of the Total Environment</i> , 2021, 751, 141729.	8.0	28
31	Macaronesian islands as promoters of diversification in amphipods: The remarkable case of the family Hyalidae (Crustacea, Amphipoda). <i>Zoologica Scripta</i> , 2019, 48, 359-375.	1.7	26
32	The Future of DNA Barcoding: Reflections from Early Career Researchers. <i>Diversity</i> , 2021, 13, 313.	1.7	26
33	Integration of DNA-Based Approaches in Aquatic Ecological Assessment Using Benthic Macroinvertebrates. <i>Water (Switzerland)</i> , 2021, 13, 331.	2.7	25
34	Gap-analysis and annotated reference library for supporting macroinvertebrate metabarcoding in Atlantic Iberia. <i>Regional Studies in Marine Science</i> , 2020, 36, 101307.	0.7	24
35	New insights into molecular evolution: prospects from the Barcode of Life Initiative (BOLI). <i>Theory in Biosciences</i> , 2010, 129, 149-157.	1.4	22
36	Persistence of phylogeographic footprints helps to understand cryptic diversity detected in two marine amphipods widespread in the Mediterranean basin. <i>Molecular Phylogenetics and Evolution</i> , 2019, 132, 53-66.	2.7	22

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37	Multigene Molecular Systematics Confirm Species Status of Morphologically Convergent Pagurus Hermit Crabs. PLoS ONE, 2011, 6, e28233.	2.5	22
38	Deep segregation in the open ocean: Macaronesia as an evolutionary hotspot for low dispersal marine invertebrates. Molecular Ecology, 2019, 28, 1784-1800.	3.9	20
39	Molecular and morphometric analyses identify new lineages within a large <i>Eumida</i> (Annelida) species complex. Zoologica Scripta, 2020, 49, 222-235.	1.7	20
40	Small-scale spatial variation of meiofaunal communities in Lima estuary (NW Portugal) assessed through metabarcoding. Estuarine, Coastal and Shelf Science, 2020, 238, 106683.	2.1	20
41	Assessment of species gaps in DNA barcode libraries of non-indigenous species (NIS) occurring in European coastal regions. Metabarcoding and Metagenomics, 0, 4, .	0.0	17
42	Detection of DNA strand breakage in a marine amphipod by agarose gel electrophoresis: exposure to X-rays and copper. Biomarkers, 2002, 7, 451-463.	1.9	16
43	Priming of a DNA metabarcoding approach for species identification and inventory in marine macrobenthic communities. Genome, 2017, 60, 260-271.	2.0	16
44	DNA Metabarcoding Methods for the Study of Marine Benthic Meiofauna: A Review. Frontiers in Marine Science, 2021, 8, .	2.5	16
45	Investigating the molecular systematic relationships amongst selected <i>Plesionika</i> (<i>D</i> capoda: <i>P</i> andalidae) from the <i>N</i> ortheast <i>A</i> tantic and <i>M</i> editerranean <i>S</i> ea. Marine Ecology, 2013, 34, 157-170.	1.1	14
46	Taxonomy, distribution and ecology of the order Phyllodocida (Annelida, Polychaeta) in deep-sea habitats around the Iberian margin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 137, 207-231.	1.4	14
47	Natural history and molecular evolution of demersal Mediterranean sharks and skates inferred by comparative phylogeographic and demographic analyses. PeerJ, 2018, 6, e5560.	2.0	14
48	Revision and annotation of DNA barcode records for marine invertebrates: report of the 8th iBOL conference hackathon. Metabarcoding and Metagenomics, 0, 5, .	0.0	14
49	Application of RAPD DNA fingerprinting in taxonomic identification of amphipods: a case-study with Gammarus species (Crustacea: Amphipoda). Journal of the Marine Biological Association of the United Kingdom, 2004, 84, 171-178.	0.8	13
50	The Barcode of Life Initiative: Reply to Dupr��, Hollingsworth and Holm. Genomics Society and Policy, 2007, 3, 1.	0.2	13
51	Gaps in DNA sequence libraries for Macaronesian marine macroinvertebrates imply decades till completion and robust monitoring. Diversity and Distributions, 2021, 27, 2003-2015.	4.1	13
52	RAPD analysis of southern populations of Gammarus locusta: comparison with allozyme data and ecological inferences. Marine Ecology - Progress Series, 2004, 277, 197-207.	1.9	13
53	Comparing species detection success between molecular markers in DNA metabarcoding of coastal macroinvertebrates. Metabarcoding and Metagenomics, 0, 5, .	0.0	11
54	From the popular tRNA ^{Leu} -COX2 intergenic region to the mitogenome: insights from diverse honey bee populations of Europe and North Africa. Apidologie, 2019, 50, 215-229.	2.0	9

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55	Molecular diversity within the genus <i>Laeonereis</i> (Annelida, Nereididae) along the west Atlantic coast: paving the way for integrative taxonomy. PeerJ, 2021, 9, e11364.	2.0	9
56	The Contribution of the Barcode of Life Initiative to the Discovery and Monitoring of Biodiversity. , 2012, , 37-68.		8
57	Meiofauna metabarcoding in Lima estuary (Portugal) suggests high taxon replacement within a background of network stability. Regional Studies in Marine Science, 2020, 38, 101341.	0.7	8
58	Advances in the use of molecular tools in ecological and biodiversity assessment of aquatic ecosystems. , 2020, 39, 419-440.		8
59	Genomics in the Discovery and Monitoring of Marine Biodiversity. , 2010, , 1-32.		7
60	Distribution and species identification in the crustacean isopod genus <i>Dynamene</i> Leach, 1814 along the North East Atlantic-Black Sea axis. ZooKeys, 2016, 635, 1-29.	1.1	7
61	Taxonomic investigation of <i>Ralfsia</i> -like (Ralfsiales, Phaeophyceae) taxa in the North Atlantic Ocean based on molecular and morphological data, with descriptions of <i>Pseudoralfsiaceae</i> fam. nov., <i>Pseudoralfsia azorica</i> gen. et sp. nov. and <i>Nuchella vesicularis</i> gen. et sp. nov., European Journal of Phycology, 2021, 56, 12-23.	2.0	7
62	The network structure of intertidal meiofaunal communities from environmental DNA metabarcoding surveys in Northwest Iberia. Aquatic Sciences, 2021, 83, 1.	1.5	7
63	Updated checklist of marine fishes (Chordata: Craniata) from Portugal and the proposed extension of the Portuguese continental shelf. European Journal of Taxonomy, 2014, , .	0.6	7
64	From 13 to 22 in a second stroke: revisiting the European <i>Eumida sanguinea</i> (Phyllodocidae.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	7
65	LOW GENETIC VARIABILITY OF THE WIDESPREAD AMPHIPOD <i>GAMMARUS LOCUSTA</i> , AS EVIDENCED BY ALLOZYME ELECTROPHORESIS OF SOUTHERN EUROPEAN POPULATIONS. Crustaceana, 2002, 75, 1335-1348.	0.3	5
66	Molecular evidence for extensive discontinuity between peracarid (Crustacea) fauna of Macaronesian islands and nearby continental coasts: over fifty candidate endemic species. Marine Biology, 2022, 169, 1.	1.5	5
67	How oogenesis analysis combined with DNA barcode can help to elucidate taxonomic ambiguities: a polychaete study-based approach. Biota Neotropica, 2020, 20, .	0.5	4
68	First record of <i>Zenion hololepis</i> (Zenionidae) in Portuguese continental waters: the northernmost occurrence in the eastern Atlantic. Marine Biodiversity Records, 2012, 5, .	1.2	3
69	The small polychaete <i>Platynereis dumerilii</i> revealed as a large species complex with fourteen MOTUs in European marine habitats. ARPHA Conference Abstracts, 0, 4, .	0.0	2
70	Venturing into auditing of reference libraries:Âfrom theÂhackathon on marineÂinvertebratesÂto sorting with BAGS. ARPHA Conference Abstracts, 0, 4, .	0.0	1
71	Combining artificial substrates, morphology and DNA metabarcoding for investigating macrozoobenthic communities in NW Iberia. Frontiers in Marine Science, 0, 6, .	2.5	1
72	Surveillance of non-indigenous invertebrate species through DNA metabarcoding in recreational marinas in the North and Center of Portugal. ARPHA Conference Abstracts, 0, 4, .	0.0	0

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73	Compiling a DNA barcode reference library for benthic molluscs of the Southern European Atlantic coast.. <i>Frontiers in Marine Science</i> , 0, 3, .	2.5	0
74	Patterns of spatial and temporal variation in estuarine meiofaunal communities assessed through DNA metabarcoding: a case study in the Lima estuary (NW Portugal). <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0
75	Cryptic or cosmopolitan? Unveiling the <i>Laeonereis culveri</i> complex along South American estuaries through DNA barcoding. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0
76	Molecular and morphometric combo reveals extraordinary hidden diversity in European polychaetes from the Phyllodocidae family. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0
77	Evolutionary insights derived from comprehensive analyses of DNA barcoding diversity in marine members of the superorder Peracarida (Crustacea: Malacostraca). <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0
78	Current status of the DNA barcode reference library of non-indigenous marine species occurring in European coastal regions. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0
79	Species gap analysis in DNA barcode reference libraries of marine non-indigenous species in the Azores archipelago. <i>Frontiers in Marine Science</i> , 0, 6, .	2.5	0
80	Assessing the seasonal dynamics of zooplankton in a recreational marina of the northwest of Portugal through multi-marker DNA metabarcoding. <i>ARPHA Conference Abstracts</i> , 0, 5, .	0.0	0
81	Detection and monitoring of invertebrate non-indigenous species through DNA metabarcoding in a recreational marina of the Northwest of Portugal. <i>ARPHA Conference Abstracts</i> , 0, 5, .	0.0	0
82	Testing COI primers for ichthyoplankton metabarcoding and their capability to assess local mesozooplankton communities. <i>ARPHA Conference Abstracts</i> , 0, 5, .	0.0	0