

Pedro M Costa

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

2,447
citations

28
h-index

45
g-index

119
ext. papers

2,892
ext. citations

4.2
avg, IF

5.33
L-index

#	Paper	IF	Citations
108	Histological biomarkers in liver and gills of juvenile <i>Solea senegalensis</i> exposed to contaminated estuarine sediments: a weighted indices approach. <i>Aquatic Toxicology</i> , 2009 , 92, 202-12	5.1	120
107	Emerging systems biology approaches in nanotoxicology: Towards a mechanism-based understanding of nanomaterial hazard and risk. <i>Toxicology and Applied Pharmacology</i> , 2016 , 299, 101-11	4.6	97
106	Genotoxicity assessment in fish peripheral blood: a method for a more efficient analysis of micronuclei. <i>Journal of Fish Biology</i> , 2007 , 71, 148-151	1.9	90
105	Development of histopathological indices in a commercial marine bivalve (<i>Ruditapes decussatus</i>) to determine environmental quality. <i>Aquatic Toxicology</i> , 2013 , 126, 442-54	5.1	86
104	Enhanced primers for amplification of DNA barcodes from a broad range of marine metazoans. <i>BMC Ecology</i> , 2013 , 13, 34	2.7	84
103	New lessons from ancient life: marine invertebrates as a source of new drugs. <i>Annals of Medicine</i> , 2019 , 51, 45-45	1.5	78
102	A ranking system for reference libraries of DNA barcodes: application to marine fish species from Portugal. <i>PLoS ONE</i> , 2012 , 7, e35858	3.7	77
101	The Comet Assay and its applications in the field of ecotoxicology: a mature tool that continues to expand its perspectives. <i>Frontiers in Genetics</i> , 2015 , 6, 180	4.5	74
100	Gold-nanobeacons for gene therapy: evaluation of genotoxicity, cell toxicity and proteome profiling analysis. <i>Nanotoxicology</i> , 2014 , 8, 521-32	5.3	69
99	Genotoxic damage in <i>Solea senegalensis</i> exposed to sediments from the Sado Estuary (Portugal): effects of metallic and organic contaminants. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008 , 654, 29-37	3	67
98	An assessment of the ability to ingest and excrete microplastics by filter-feeders: A case study with the Mediterranean mussel. <i>Environmental Pollution</i> , 2019 , 245, 600-606	9.3	63
97	Assessment of the genotoxic potential of contaminated estuarine sediments in fish peripheral blood: laboratory versus in situ studies. <i>Environmental Research</i> , 2011 , 111, 25-36	7.9	62
96	Development of histopathological indices in the digestive gland and gonad of mussels: integration with contamination levels and effects of confounding factors. <i>Aquatic Toxicology</i> , 2015 , 162, 152-164	5.1	61
95	Estuarine ecological risk based on hepatic histopathological indices from laboratory and in situ tested fish. <i>Marine Pollution Bulletin</i> , 2011 , 62, 55-65	6.7	52
94	Comparative DNA damage and oxidative effects of carcinogenic and non-carcinogenic sediment-bound PAHs in the gills of a bivalve. <i>Aquatic Toxicology</i> , 2013 , 142-143, 85-95	5.1	51
93	Cytotoxicity screening and cytokine profiling of nineteen nanomaterials enables hazard ranking and grouping based on inflammogenic potential. <i>Nanotoxicology</i> , 2017 , 11, 809-826	5.3	49
92	Hypocholesterolaemic pharmaceutical simvastatin disrupts reproduction and population growth of the amphipod <i>Gammarus locusta</i> at the ng/L range. <i>Aquatic Toxicology</i> , 2014 , 155, 337-47	5.1	45

91	The comet assay in Environmental Risk Assessment of marine pollutants: applications, assets and handicaps of surveying genotoxicity in non-model organisms. <i>Mutagenesis</i> , 2015 , 30, 89-106	2.8	44
90	Impact of remobilized contaminants in <i>Mytilus edulis</i> during dredging operations in a harbour area: bioaccumulation and biomarker responses. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 85, 96-103	7	44
89	Starting a DNA barcode reference library for shallow water polychaetes from the southern European Atlantic coast. <i>Molecular Ecology Resources</i> , 2016 , 16, 298-313	8.4	44
88	Multifunctional gold-nanoparticles: A nanovectorization tool for the targeted delivery of novel chemotherapeutic agents. <i>Journal of Controlled Release</i> , 2017 , 245, 52-61	11.7	43
87	Alterations to proteome and tissue recovery responses in fish liver caused by a short-term combination treatment with cadmium and benzo[a]pyrene. <i>Environmental Pollution</i> , 2010 , 158, 3338-46	9.3	42
86	Can the integration of multiple biomarkers and sediment geochemistry aid solving the complexity of sediment risk assessment? A case study with a benthic fish. <i>Environmental Pollution</i> , 2012 , 161, 107-20	9.3	41
85	Histopathological alterations, physiological limits, and molecular changes of juvenile <i>Sparus aurata</i> in response to thermal stress. <i>Marine Ecology - Progress Series</i> , 2014 , 505, 253-266	2.6	39
84	Toxicity of surface-modified copper oxide nanoparticles in a mouse macrophage cell line: Interplay of particles, surface coating and particle dissolution. <i>Chemosphere</i> , 2018 , 196, 482-493	8.4	32
83	Transcriptional profiling reveals gene expression changes associated with inflammation and cell proliferation following short-term inhalation exposure to copper oxide nanoparticles. <i>Journal of Applied Toxicology</i> , 2018 , 38, 385-397	4.1	32
82	Biochemical endpoints on juvenile <i>Solea senegalensis</i> exposed to estuarine sediments: the effect of contaminant mixtures on metallothionein and CYP1A induction. <i>Ecotoxicology</i> , 2009 , 18, 988-1000	2.9	29
81	Modelling metallothionein induction in the liver of <i>Sparus aurata</i> exposed to metal-contaminated sediments. <i>Ecotoxicology and Environmental Safety</i> , 2008 , 71, 117-24	7	28
80	Physiological, cellular and biochemical thermal stress response of intertidal shrimps with different vertical distributions: <i>Palaemon elegans</i> and <i>Palaemon serratus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015 , 183, 107-15	2.6	26
79	When warming hits harder: survival, cellular stress and thermal limits of <i>Sparus aurata</i> larvae under global change. <i>Marine Biology</i> , 2016 , 163, 1	2.5	25
78	Metabolic and histopathological alterations in the marine bivalve <i>Mytilus galloprovincialis</i> induced by chronic exposure to acrylamide. <i>Environmental Research</i> , 2014 , 135, 55-62	7.9	23
77	Multi-organ histological observations on juvenile Senegalese soles exposed to low concentrations of waterborne cadmium. <i>Fish Physiology and Biochemistry</i> , 2013 , 39, 143-58	2.7	22
76	The Role of the Cephalopod Digestive Gland in the Storage and Detoxification of Marine Pollutants. <i>Frontiers in Physiology</i> , 2017 , 8, 232	4.6	22
75	A description of chloride cell and kidney tubule alterations in the flatfish <i>Solea senegalensis</i> exposed to moderately contaminated sediments from the Sado estuary (Portugal). <i>Journal of Sea Research</i> , 2010 , 64, 465-472	1.9	21
74	Ecotoxicological heterogeneity in transitional coastal habitats assessed through the integration of biomarkers and sediment-contamination profiles: a case study using a commercial clam. <i>Archives of Environmental Contamination and Toxicology</i> , 2013 , 64, 97-109	3.2	20

73	Microstructural and histochemical advances on the digestive gland of the common cuttlefish, <i>Sepia officinalis</i> L.. <i>Zoomorphology</i> , 2014 , 133, 59-69	1	20
72	The State-of-the Art of Environmental Toxicogenomics: Challenges and Perspectives of "Omics" Approaches Directed to Toxicant Mixtures. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	20
71	Determining oxidative and non-oxidative genotoxic effects driven by estuarine sediment contaminants on a human hepatoma cell line. <i>Science of the Total Environment</i> , 2014 , 478, 25-35	10.2	19
70	With a little help from DNA barcoding: investigating the diversity of Gastropoda from the Portuguese coast. <i>Scientific Reports</i> , 2016 , 6, 20226	4.9	18
69	Risk assessment of pesticides in estuaries: a review addressing the persistence of an old problem in complex environments. <i>Ecotoxicology</i> , 2018 , 27, 1008-1018	2.9	17
68	Integrated approach to the in vivo genotoxic effects of a titanium dioxide nanomaterial using LacZ plasmid-based transgenic mice. <i>Environmental and Molecular Mutagenesis</i> , 2014 , 55, 500-9	3.2	17
67	Evaluation of the potential of the common cockle (<i>Cerastoderma edule</i> L.) for the ecological risk assessment of estuarine sediments: bioaccumulation and biomarkers. <i>Ecotoxicology</i> , 2010 , 19, 1496-512	2.9	17
66	Characterization of antiproliferative potential and biological targets of a copper compound containing 4'-phenyl terpyridine. <i>Journal of Biological Inorganic Chemistry</i> , 2015 , 20, 935-48	3.7	16
65	Effects of carcinogenic versus non-carcinogenic AHR-active PAHs and their mixtures: lessons from ecological relevance. <i>Environmental Research</i> , 2015 , 138, 101-11	7.9	16
64	May sediment contamination be xenoestrogenic to benthic fish? A case study with <i>Solea senegalensis</i> . <i>Marine Environmental Research</i> , 2014 , 99, 170-8	3.3	16
63	Development and application of a novel histological multichrome technique for clam histopathology. <i>Journal of Invertebrate Pathology</i> , 2012 , 110, 411-4	2.6	16
62	Transcriptomic analyses in a benthic fish exposed to contaminated estuarine sediments through laboratory and in situ bioassays. <i>Ecotoxicology</i> , 2011 , 20, 1749-64	2.9	16
61	DNA damage and metal accumulation in four tissues of feral <i>Octopus vulgaris</i> from two coastal areas in Portugal. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 1543-7	7	16
60	Toxicokinetics of waterborne trivalent arsenic in the freshwater bivalve <i>Corbicula fluminea</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2009 , 57, 338-47	3.2	16
59	Metallothionein responses in the Asiatic clam (<i>Corbicula fluminea</i>) after exposure to trivalent arsenic. <i>Biomarkers</i> , 2007 , 12, 589-98	2.6	16
58	Ecological risk assessment of impacted estuarine areas: integrating histological and biochemical endpoints in wild Senegalese sole. <i>Ecotoxicology and Environmental Safety</i> , 2013 , 95, 202-11	7	15
57	Multi-organ histopathology in gobies for estuarine environmental risk assessment: A case study in the Ibaizabal estuary (SE Bay of Biscay). <i>Estuarine, Coastal and Shelf Science</i> , 2016 , 179, 145-154	2.9	14
56	Toxicological effects and bioaccumulation in the freshwater clam (<i>Corbicula fluminea</i>) following exposure to trivalent arsenic. <i>Environmental Toxicology</i> , 2007 , 22, 502-9	4.2	14

55	Comparing the genotoxicity of a potentially carcinogenic and a noncarcinogenic PAH, singly, and in binary combination, on peripheral blood cells of the European sea bass. <i>Environmental Toxicology</i> , 2016 , 31, 1307-1318	4.2	13
54	Nitric Oxide Dependent Degradation of Polyethylene Glycol-Modified Single-Walled Carbon Nanotubes: Implications for Intra-Articular Delivery. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1700916	10.1	12
53	Targeting Cancer Resistance via Multifunctional Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	12
52	Histopathological findings on <i>Carassius auratus</i> hepatopancreas upon exposure to acrylamide: correlation with genotoxicity and metabolic alterations. <i>Journal of Applied Toxicology</i> , 2014 , 34, 1293-302	4.1	12
51	Integration of sediment contamination with multi-biomarker responses in a novel potential bioindicator (<i>Sepia officinalis</i>) for risk assessment in impacted estuaries. <i>Ecotoxicology</i> , 2013 , 22, 1538-54	2.9	12
50	Histopathological baseline levels and confounding factors in common sole (<i>Solea solea</i>) for marine environmental risk assessment. <i>Marine Environmental Research</i> , 2015 , 110, 162-73	3.3	12
49	Histopathological indices in sole (<i>Solea solea</i>) and hake (<i>Merluccius merluccius</i>) for implementation of the European Marine Strategy Framework Directive along the Basque continental shelf (SE Bay of Biscay). <i>Marine Pollution Bulletin</i> , 2015 , 94, 185-98	6.7	11
48	A study on the digestive physiology of a marine polychaete (<i>Eulalia viridis</i>) through microanatomical changes of epithelia during the digestive cycle. <i>Microscopy and Microanalysis</i> , 2015 , 21, 91-101	0.5	11
47	Human hepatoma cells exposed to estuarine sediment contaminant extracts permitted the differentiation between cytotoxic and pro-mutagenic fractions. <i>Environmental Pollution</i> , 2014 , 185, 141-8	8.3	11
46	Molecular Plasticity under Ocean Warming: Proteomics and Fitness Data Provides Clues for a Better Understanding of the Thermal Tolerance in Fish. <i>Frontiers in Physiology</i> , 2017 , 8, 825	4.6	11
45	Alterations in juvenile flatfish gill epithelia induced by sediment-bound toxicants: A comparative in situ and ex situ study. <i>Marine Environmental Research</i> , 2015 , 112, 122-30	3.3	10
44	Development of a method for the detection of polystyrene microplastics in paraffin-embedded histological sections. <i>Histochemistry and Cell Biology</i> , 2018 , 149, 187-191	2.4	10
43	Applying quantitative and semi-quantitative histopathology to address the interaction between sediment-bound polycyclic aromatic hydrocarbons in fish gills. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 131, 164-71	7	10
42	Metallothioneins and trace elements in digestive gland, gills, kidney and gonads of <i>Octopus vulgaris</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010 , 152, 139-46	2.2	10
41	<i>Streptococcus dysgalactiae</i> subsp. <i>dysgalactiae</i> isolated from milk of the bovine udder as emerging pathogens: In vitro and in vivo infection of human cells and zebrafish as biological models. <i>MicrobiologyOpen</i> , 2019 , 8, e00623	3.4	10
40	The hidden biotechnological potential of marine invertebrates: The Polychaeta case study. <i>Environmental Research</i> , 2019 , 173, 270-280	7.9	9
39	Co-exposure to environmental carcinogens in vivo induces neoplasia-related hallmarks in low-genotoxicity events, even after removal of insult. <i>Scientific Reports</i> , 2018 , 8, 3649	4.9	9
38	An integrative assessment to determine the genotoxic hazard of estuarine sediments: combining cell and whole-organism responses. <i>Frontiers in Genetics</i> , 2014 , 5, 437	4.5	9

37	Hepatic proteome changes in <i>Solea senegalensis</i> exposed to contaminated estuarine sediments: a laboratory and in situ survey. <i>Ecotoxicology</i> , 2012 , 21, 1194-207	2.9	9
36	Effects of ECF-Kraft pulp mill effluent treated with fungi (<i>Rhizopus oryzae</i>) on reproductive steroids and liver CYP1A of exposed goldfish (<i>Carassius auratus</i>). <i>Ecotoxicology</i> , 2009 , 18, 1011-7	2.9	9
35	A morphoanatomical approach to the adaptive features of the epidermis and proboscis of a marine Polychaeta: <i>Eulalia viridis</i> (Phyllodocida: Phyllodocidae). <i>Journal of Anatomy</i> , 2018 , 233, 567-579	2.9	8
34	Molecular detection of prokaryote and protozoan parasites in the commercial bivalve <i>Ruditapes decussatus</i> from southern Portugal. <i>Aquaculture</i> , 2012 , 370-371, 61-67	4.4	8
33	Explorations on the ecological role of toxin secretion and delivery in jawless predatory Polychaeta. <i>Scientific Reports</i> , 2018 , 8, 7635	4.9	8
32	Exploring the potential interference of estuarine sediment contaminants with the DNA repair capacity of human hepatoma cells. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2015 , 78, 559-70	3.2	7
31	Physiological and biochemical thermal stress response of the intertidal rock goby <i>Gobius paganellus</i> . <i>Ecological Indicators</i> , 2014 , 46, 232-239	5.8	7
30	Environmental risk assessment in a contaminated estuary: An integrated weight of evidence approach as a decision support tool. <i>Ocean and Coastal Management</i> , 2017 , 143, 51-62	3.9	7
29	Biochemical and histopathological endpoints of in vivo cadmium toxicity in <i>Sparus aurata</i> . <i>Ciencias Marinas</i> , 2008 , 34, 349-361	1.7	7
28	Metal body burden and tissue oxidative status in the bivalve <i>Venerupis decussata</i> from Tunisian coastal lagoons. <i>Marine Environmental Research</i> , 2020 , 159, 105000	3.3	7
27	Determining DNA strand breakage from embryogenic cell cultures of a conifer species using the single-cell gel electrophoresis assay. <i>Tree Genetics and Genomes</i> , 2012 , 8, 425-430	2.1	6
26	Sea warming affects bream (<i>Sparus aurata</i>) tissues and stress proteins (HSP70). <i>Microscopy and Microanalysis</i> , 2013 , 19, 83-84	0.5	6
25	Effects of the increase of temperature and CO ₂ concentration on polychaetae <i>Nereis diversicolor</i> : simulating extreme scenarios of climate change in marine sediments. <i>Hydrobiologia</i> , 2016 , 772, 161-174	2.4	6
24	The complexity of porphyrin-like pigments in a marine annelid sheds new light on haem metabolism in aquatic invertebrates. <i>Scientific Reports</i> , 2019 , 9, 12930	4.9	5
23	Technical Updates to the Comet Assay for Assessing DNA Damage in Zebrafish Embryos from Fresh and Frozen Cell Suspensions. <i>Zebrafish</i> , 2020 ,	2	5
22	Different sensitivity to heatwaves across the life cycle of fish reflects phenotypic adaptation to environmental niche. <i>Marine Environmental Research</i> , 2020 , 162, 105192	3.3	5
21	A microscopical study of the chlorophylloid pigment cells of the marine polychaete <i>Eulalia viridis</i> (L.). <i>Microscopy and Microanalysis</i> , 2013 , 19, 15-16	0.5	4
20	Effects of exposure to arsenic in <i>Corbicula fluminea</i> : Evaluation of the histological, histochemical and biochemical responses. <i>Ciencias Marinas</i> , 2008 , 34, 307-316	1.7	4

19	On the Progression of COVID-19 in Portugal: A Comparative Analysis of Active Cases Using Non-linear Regression. <i>Frontiers in Public Health</i> , 2020 , 8, 495	6	4
18	Pulmonary toxicity and gene expression changes after short-term inhalation exposure to surface-modified copper oxide nanoparticles.. <i>NanoImpact</i> , 2021 , 22, 100313	5.6	4
17	Specific Antiproliferative Properties of Proteinaceous Toxin Secretions from the Marine Annelid sp. onto Ovarian Cancer Cells. <i>Marine Drugs</i> , 2021 , 19,	6	4
16	Current aspects of DNA damage and repair in ecotoxicology: a mini-review. <i>Ecotoxicology</i> , 2021 , 1	2.9	3
15	Chapter 1:The Comet Assay in Aquatic (Eco)genotoxicology Using Non-conventional Model Organisms: Relevance, Constraints and Prospects. <i>Issues in Toxicology</i> , 2017 , 1-32	0.3	3
14	Histochemical detection of free thiols in glandular cells and tissues of different marine Polychaeta. <i>Histochemistry and Cell Biology</i> , 2020 , 154, 315-325	2.4	2
13	Light-Mediated Toxicity of Porphyrin-Like Pigments from a Marine Polychaeta. <i>Marine Drugs</i> , 2020 , 18,	6	2
12	First record of <i>Diaphus dumerilii</i> (Myctophiformes: Myctophidae) off the Portuguese mainland coast. <i>Journal of Fish Biology</i> , 2004 , 64, 1435-1438	1.9	2
11	A Transcriptomic Approach to the Metabolism of Tetrapyrrolic Photosensitizers in a Marine Annelid. <i>Molecules</i> , 2021 , 26,	4.8	2
10	Proteomics in systems toxicology. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021 , 127, 55-91	5.3	2
9	A Transcriptomic Approach to the Recruitment of Venom Proteins in a Marine Annelid. <i>Toxins</i> , 2021 , 13,	4.9	2
8	<i>Mytilus galloprovincialis</i> CYP1A-like mRNAs reveal closer proximity of mytilid CYP1A to the eumetazoan CYP2 family. <i>Aquatic Toxicology</i> , 2019 , 214, 105260	5.1	1
7	On the progression of COVID19 in Portugal: A comparative analysis of active cases using non-linear regression	1	1
6	An investigation into the toxicity of tissue extracts from two distinct marine Polychaeta.. <i>Toxicon: X</i> , 2022 , 14, 100116	2.6	1
5	Microphotography and Image Processing 2018 , 119-133		0
4	Common Problems and Troubleshooting 2018 , 217-226		
3	Sample Preparation 2018 , 51-81		
2	The LacZ Plasmid-Based Transgenic Mouse Model: An Integrative Approach to Study the Genotoxicity of Nanomaterials. <i>Methods in Pharmacology and Toxicology</i> , 2014 , 451-477	1.1	

- 1 Microanatomical alterations in the gut of an marine polychaete (*Eulalia viridis*, Errantia: Phyllodocidae) during the digestive process. *Microscopy and Microanalysis*, **2015**, 21, 12-13

0.5