

# Pedro M Costa

## List of Publications by Year in descending order

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116  
papers

3,142  
citations

159358

30  
h-index

189595

50  
g-index

119  
all docs

119  
docs citations

119  
times ranked

4558  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 202-212.	1.9	144
2	Enhanced primers for amplification of DNA barcodes from a broad range of marine metazoans. <i>BMC Ecology</i> , 2013, 13, 34.	3.0	130
3	Emerging systems biology approaches in nanotoxicology: Towards a mechanism-based understanding of nanomaterial hazard and risk. <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 101-111.	1.3	117
4	Development of histopathological indices in a commercial marine bivalve ( <i>Ruditapes decussatus</i> ) to determine environmental quality. <i>Aquatic Toxicology</i> , 2013, 126, 442-454.	1.9	113
5	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.	3.7	100
6	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.	1.1	95
7	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.	0.7	93
8	A Ranking System for Reference Libraries of DNA Barcodes: Application to Marine Fish Species from Portugal. <i>PLoS ONE</i> , 2012, 7, e35858.	1.1	89
9	Gold-nanobeacons for gene therapy: evaluation of genotoxicity, cell toxicity and proteome profiling analysis. <i>Nanotoxicology</i> , 2014, 8, 521-532.	1.6	83
10	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.	1.9	81
11	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.	0.9	71
12	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.	3.7	70
13	Estuarine ecological risk based on hepatic histopathological indices from laboratory and in situ tested fish. <i>Marine Pollution Bulletin</i> , 2011, 62, 55-65.	2.3	67
14	Multifunctional gold-nanoparticles: A nanovectorization tool for the targeted delivery of novel chemotherapeutic agents. <i>Journal of Controlled Release</i> , 2017, 245, 52-61.	4.8	64
15	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.	1.9	62
16	Cytotoxicity screening and cytokine profiling of nineteen nanomaterials enables hazard ranking and grouping based on inflammogenic potential. <i>Nanotoxicology</i> , 2017, 11, 809-826.	1.6	62
17	Starting a <sc>DNA</sc> barcode reference library for shallow water polychaetes from the southern European Atlantic coast. <i>Molecular Ecology Resources</i> , 2016, 16, 298-313.	2.2	58
18	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, 337-347.	1.9	54

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19	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.	1.0	54
20	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.	2.9	49
21	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, 3338-3346.	3.7	48
22	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.	0.9	47
23	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.	0.7	47
24	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.	1.4	44
25	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 &amp; Integrative Physiology</i> , 2015, 183, 107-115.	0.8	42
26	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, 107-120.	3.7	41
27	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.	4.2	40
28	The Role of the Cephalopod Digestive Gland in the Storage and Detoxification of Marine Pollutants. <i>Frontiers in Physiology</i> , 2017, 8, 232.	1.3	39
29	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, 4718.	1.2	38
30	Multi-organ histological observations on juvenile Senegalese soles exposed to low concentrations of waterborne cadmium. <i>Fish Physiology and Biochemistry</i> , 2013, 39, 143-158.	0.9	34
31	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.	1.1	31
32	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.	3.7	30
33	<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.	1.2	30
34	Modelling metallothionein induction in the liver of <i>Sparus aurata</i> exposed to metal-contaminated sediments. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 117-124.	2.9	29
35	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.	1.1	29
36	With a little help from DNA barcoding: investigating the diversity of Gastropoda from the Portuguese coast. <i>Scientific Reports</i> , 2016, 6, 20226.	1.6	28

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37	Microstructural and histochemical advances on the digestive gland of the common cuttlefish, <i>Sepia officinalis</i> L.. <i>Zoomorphology</i> , 2014, 133, 59-69.	0.4	27
38	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.	1.3	26
39	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, 1293-1302.	1.4	25
40	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.	0.6	24
41	Targeting Cancer Resistance via Multifunctional Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5510.	1.8	24
42	Effects of carcinogenic versus non-carcinogenic AHR-active PAHs and their mixtures: Lessons from ecological relevance. <i>Environmental Research</i> , 2015, 138, 101-111.	3.7	23
43	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.	2.1	22
44	Integrated approach to the in vivo genotoxic effects of a titanium dioxide nanomaterial using <i>LacZ</i> plasmid-based transgenic mice. <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 500-509.	0.9	22
45	Development and application of a novel histological multichrome technique for clam histopathology. <i>Journal of Invertebrate Pathology</i> , 2012, 110, 411-414.	1.5	21
46	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.	3.9	21
47	Toxicokinetics of Waterborne Trivalent Arsenic in the Freshwater Bivalve <i>Corbicula fluminea</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2009, 57, 338-347.	2.1	20
48	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.	0.9	20
49	The hidden biotechnological potential of marine invertebrates: The Polychaeta case study. <i>Environmental Research</i> , 2019, 173, 270-280.	3.7	20
50	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, 1496-1512.	1.1	19
51	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, 1543-1547.	2.9	19
52	Different sensitivity to heatwaves across the life cycle of fish reflects phenotypic adaptation to environmental niche. <i>Marine Environmental Research</i> , 2020, 162, 105192.	1.1	19
53	Metallothionein responses in the Asiatic clam ( <i>Corbicula fluminea</i> ) after exposure to trivalent arsenic. <i>Biomarkers</i> , 2007, 12, 589-598.	0.9	18
54	Toxicological effects and bioaccumulation in the freshwater clam ( <i>Corbicula fluminea</i> ) following exposure to trivalent arsenic. <i>Environmental Toxicology</i> , 2007, 22, 502-509.	2.1	17

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55	Transcriptomic analyses in a benthic fish exposed to contaminated estuarine sediments through laboratory and in situ bioassays. <i>Ecotoxicology</i> , 2011, 20, 1749-1764.	1.1	17
56	May sediment contamination be xenoestrogenic to benthic fish? A case study with <i>Solea senegalensis</i> . <i>Marine Environmental Research</i> , 2014, 99, 170-178.	1.1	17
57	Characterization of antiproliferative potential and biological targets of a copper compound containing 4-phenyl terpyridine. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 935-948.	1.1	17
58	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.	1.7	16
59	Ecological risk assessment of impacted estuarine areas: Integrating histological and biochemical endpoints in wild Senegalese sole. <i>Ecotoxicology and Environmental Safety</i> , 2013, 95, 202-211.	2.9	16
60	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.	0.2	16
61	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.	2.1	16
62	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, 162-173.	1.1	15
63	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.	0.8	15
64	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.	3.9	14
65	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, 139-146.	1.3	13
66	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, 1538-1554.	1.1	13
67	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 Environmental Research</i> , 2015, 112, 122-130.	1.1	12
68	Pulmonary toxicity and gene expression changes after short-term inhalation exposure to surface-modified copper oxide nanoparticles. <i>NanoImpact</i> , 2021, 22, 100313.	2.4	13
69	Human hepatoma cells exposed to estuarine sediment contaminant extracts permitted the differentiation between cytotoxic and pro-mutagenic fractions. <i>Environmental Pollution</i> , 2014, 185, 141-148.	3.7	12
70	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, 122-130.	1.1	12
71	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, 164-171.	2.9	12
72	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.	0.9	12

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73	Technical Updates to the Comet Assay <i>In Vivo</i> for Assessing DNA Damage in Zebrafish Embryos from Fresh and Frozen Cell Suspensions. <i>Zebrafish</i> , 2020, 17, 220-228.	0.5	12
74	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.	1.6	11
75	Explorations on the ecological role of toxin secretion and delivery in jawless predatory Polychaeta. <i>Scientific Reports</i> , 2018, 8, 7635.	1.6	11
76	Specific Antiproliferative Properties of Proteinaceous Toxin Secretions from the Marine Annelid <i>Eulalia</i> sp. onto Ovarian Cancer Cells. <i>Marine Drugs</i> , 2021, 19, 31.	2.2	11
77	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, 1011-1017.	1.1	10
78	Hepatic proteome changes in <i>Solea senegalensis</i> exposed to contaminated estuarine sediments: a laboratory and in situ survey. <i>Ecotoxicology</i> , 2012, 21, 1194-1207.	1.1	10
79	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.	1.1	10
80	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, 559-570.	1.1	10
81	Proteomics in systems toxicology. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 127, 55-91.	1.0	10
82	Biochemical and histopathological endpoints of in vivo cadmium toxicity in <i>Sparus aurata</i> . <i>Ciencias Marinas</i> , 2008, 34, .	0.4	10
83	Current aspects of DNA damage and repair in ecotoxicology: a mini-review. <i>Ecotoxicology</i> , 2022, 31, 1-11.	1.1	10
84	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.	2.0	9
85	Physiological and biochemical thermal stress response of the intertidal rock goby <i>Gobius paganellus</i> . <i>Ecological Indicators</i> , 2014, 46, 232-239.	2.6	8
86	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.	1.3	8
87	A Transcriptomic Approach to the Recruitment of Venom Proteins in a Marine Annelid. <i>Toxins</i> , 2021, 13, 97.	1.5	8
88	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.	1.1	8
89	Effects of the increase of temperature and CO2 concentration on polychaetae <i>Nereis diversicolor</i> : simulating extreme scenarios of climate change in marine sediments. <i>Hydrobiologia</i> , 2016, 772, 161-174.	1.0	7
90	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.	1.6	7

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91	Histochemical detection of free thiols in glandular cells and tissues of different marine Polychaeta. <i>Histochemistry and Cell Biology</i> , 2020, 154, 315-325.	0.8	7
92	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.	0.2	7
93	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.	0.6	6
94	Sea warming affects bream ( <i>Sparus aurata</i> ) tissues and stress proteins (HSP70). <i>Microscopy and Microanalysis</i> , 2013, 19, 83-84.	0.2	6
95	Light-Mediated Toxicity of Porphyrin-Like Pigments from a Marine Polychaeta. <i>Marine Drugs</i> , 2020, 18, 302.	2.2	6
96	An investigation into the toxicity of tissue extracts from two distinct marine Polychaeta. <i>Toxicon: X</i> , 2022, 14, 100116.	1.2	6
97	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.	0.2	5
98	A Transcriptomic Approach to the Metabolism of Tetrapyrrolic Photosensitizers in a Marine Annelid. <i>Molecules</i> , 2021, 26, 3924.	1.7	5
99	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.	0.4	4
100	Endogenous Fluorescent Proteins in the Mucus of an Intertidal Polychaeta: Clues for Biotechnology. <i>Marine Drugs</i> , 2022, 20, 224.	2.2	4
101	A drug discovery approach based on comparative transcriptomics between two toxin-secreting marine annelids: <i>Glycera alba</i> and <i>Hediste diversicolor</i> . <i>Molecular Omics</i> , 2022, 18, 731-744.	1.4	4
102	Cephalotoxins: A Hotspot for Marine Bioprospecting?. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	3
103	First record of <i>Diaphus dumerilii</i> (Myctophiformes: Myctophidae) off the Portuguese mainland coast. <i>Journal of Fish Biology</i> , 2004, 64, 1435-1438.	0.7	2
104	Localization and Bioreactivity of Cysteine-Rich Secretions in the Marine Gastropod <i>Nucella lapillus</i> . <i>Marine Drugs</i> , 2021, 19, 276.	2.2	2
105	Staining Protocols. , 2018, , 83-117.		1
106	Microphotography and Image Processing. , 2018, , 119-133.		1
107	<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.	1.9	1
108	Chapter 7. Emerging Systems Toxicology Approaches in Nanosafety Assessment. <i>Issues in Toxicology</i> , 2017, , 174-202.	0.2	1

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109	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.	0.1	0
110	Microanatomical alterations in the gut of an marine polychaete (Eulalia viridis, Errantia: Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50,702 Td (P	0.2	0
111	Of pigments and toxins: an integrative approach to the biotechnological potential of a marine polychaete. <i>Impact</i> , 2017, 2017, 62-64.	0.0	0
112	Identification of Major Histopathological Traits. , 2018, , 135-190.		0
113	Scoring and Data Processing. , 2018, , 191-216.		0
114	Common Problems and Troubleshooting. , 2018, , 217-226.		0
115	Sample Preparation. , 2018, , 51-81.		0
116	New lessons from ancient life: marine invertebrates as a source of new drugs. <i>Annals of Medicine</i> , 2024, 51, 45-45.	1.5	0