Pedro M Costa

List of Publications by Year
in descending order

116	3,142	159585	189892
papers	citations	30 h-index	50 g-index

119	119	119	4558
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Histological biomarkers in liver and gills of juvenile Solea senegalensis exposed to contaminated estuarine sediments: A weighted indices approach. Aquatic Toxicology, 2009, 92, 202-212.	4.0	144
2	Enhanced primers for amplification of DNA barcodes from a broad range of marine metazoans. BMC Ecology, 2013, 13, 34.	3.0	130
3	Emerging systems biology approaches in nanotoxicology: Towards a mechanism-based understanding of nanomaterial hazard and risk. Toxicology and Applied Pharmacology, 2016, 299, 101-111.	2.8	117
4	Development of histopathological indices in a commercial marine bivalve (Ruditapes decussatus) to determine environmental quality. Aquatic Toxicology, 2013, 126, 442-454.	4.0	113
5	An assessment of the ability to ingest and excrete microplastics by filter-feeders: A case study with the Mediterranean mussel. Environmental Pollution, 2019, 245, 600-606.	7.5	100
6	The Comet Assay and its applications in the field of ecotoxicology: a mature tool that continues to expand its perspectives. Frontiers in Genetics, 2015, 6, 180.	2.3	95
7	Genotoxicity assessment in fish peripheral blood: a method for a more efficient analysis of micronuclei. Journal of Fish Biology, 2007, 71, 148-151.	1.6	93
8	A Ranking System for Reference Libraries of DNA Barcodes: Application to Marine Fish Species from Portugal. PLoS ONE, 2012, 7, e35858.	2.5	89
9	Gold-nanobeacons for gene therapy: evaluation of genotoxicity, cell toxicity and proteome profiling analysis. Nanotoxicology, 2014, 8, 521-532.	3.0	83
10	Development of histopathological indices in the digestive gland and gonad of mussels: Integration with contamination levels and effects of confounding factors. Aquatic Toxicology, 2015, 162, 152-164.	4.0	81
11	Genotoxic damage in Solea senegalensis exposed to sediments from the Sado Estuary (Portugal): Effects of metallic and organic contaminants. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 654, 29-37.	1.7	71
12	Assessment of the genotoxic potential of contaminated estuarine sediments in fish peripheral blood: Laboratory versus in situ studies. Environmental Research, 2011, 111, 25-36.	7.5	70
13	Estuarine ecological risk based on hepatic histopathological indices from laboratory and in situ tested fish. Marine Pollution Bulletin, 2011, 62, 55-65.	5.0	67
14	Multifunctional gold-nanoparticles: A nanovectorization tool for the targeted delivery of novel chemotherapeutic agents. Journal of Controlled Release, 2017, 245, 52-61.	9.9	64
15	Comparative DNA damage and oxidative effects of carcinogenic and non-carcinogenic sediment-bound PAHs in the gills of a bivalve. Aquatic Toxicology, 2013, 142-143, 85-95.	4.0	62
16	Cytotoxicity screening and cytokine profiling of nineteen nanomaterials enables hazard ranking and grouping based on inflammogenic potential. Nanotoxicology, 2017, 11, 809-826.	3.0	62
17	Starting a <scp>DNA</scp> barcode reference library for shallow water polychaetes from the southern European Atlantic coast. Molecular Ecology Resources, 2016, 16, 298-313.	4.8	58
18	Hypocholesterolaemic pharmaceutical simvastatin disrupts reproduction and population growth of the amphipod Gammarus locusta at the ng/L range. Aquatic Toxicology, 2014, 155, 337-347.	4.0	54

#	Article	IF	Citations
19	The comet assay in Environmental Risk Assessment of marine pollutants: applications, assets and handicaps of surveying genotoxicity in non-model organisms. Mutagenesis, 2015, 30, 89-106.	2.6	54
20	Impact of remobilized contaminants in Mytilus edulis during dredging operations in a harbour area: Bioaccumulation and biomarker responses. Ecotoxicology and Environmental Safety, 2012, 85, 96-103.	6.0	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. Environmental Pollution, 2010, 158, 3338-3346.	7.5	48
22	Histopathological alterations, physiological limits, and molecular changes of juvenile Sparus aurata in response to thermal stress. Marine Ecology - Progress Series, 2014, 505, 253-266.	1.9	47
23	When warming hits harder: survival, cellular stress and thermal limits of Sparus aurata larvae under global change. Marine Biology, 2016, 163, 1.	1.5	47
24	Transcriptional profiling reveals gene expression changes associated with inflammation and cell proliferation following shortâ€term inhalation exposure to copper oxide nanoparticles. Journal of Applied Toxicology, 2018, 38, 385-397.	2.8	44
25	Physiological, cellular and biochemical thermal stress response of intertidal shrimps with different vertical distributions: Palaemon elegans and Palaemon serratus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 183, 107-115.	1.8	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. Environmental Pollution, 2012, 161, 107-120.	7.5	41
27	Toxicity of surface-modified copper oxide nanoparticles in a mouse macrophage cell line: Interplay of particles, surface coating and particle dissolution. Chemosphere, 2018, 196, 482-493.	8.2	40
28	The Role of the Cephalopod Digestive Gland in the Storage and Detoxification of Marine Pollutants. Frontiers in Physiology, 2017, 8, 232.	2.8	39
29	The State-of-the Art of Environmental Toxicogenomics: Challenges and Perspectives of â€œOmicsâ€• Approaches Directed to Toxicant Mixtures. International Journal of Environmental Research and Public Health, 2019, 16, 4718.	2.6	38
30	Multi-organ histological observations on juvenile Senegalese soles exposed to low concentrations of waterborne cadmium. Fish Physiology and Biochemistry, 2013, 39, 143-158.	2.3	34
31	Biochemical endpoints on juvenile Solea senegalensis exposed to estuarine sediments: the effect of contaminant mixtures on metallothionein and CYP1A induction. Ecotoxicology, 2009, 18, 988-1000.	2.4	31
32	Metabolic and histopathological alterations in the marine bivalve Mytilus galloprovincialis induced by chronic exposure to acrylamide. Environmental Research, 2014, 135, 55-62.	7.5	30
33	Streptococcus dysgalactiae subsp. dysgalactiae isolated from milk of the bovine udder as emerging pathogens: In vitro and in vivo infection of human cells and zebrafish as biological models. MicrobiologyOpen, 2019, 8, e00623.	3.0	30
34	Modelling metallothionein induction in the liver of Sparus aurata exposed to metal-contaminated sediments. Ecotoxicology and Environmental Safety, 2008, 71, 117-124.	6.0	29
35	Risk assessment of pesticides in estuaries: a review addressing the persistence of an old problem in complex environments. Ecotoxicology, 2018, 27, 1008-1018.	2.4	29
36	With a little help from DNA barcoding: investigating the diversity of Gastropoda from the Portuguese coast. Scientific Reports, 2016, 6, 20226.	3.3	28

#	Article	IF	Citations
37	Microstructural and histochemical advances on the digestive gland of the common cuttlefish, Sepia officinalis L.. Zoomorphology, 2014, 133, 59-69.	0.8	27
38	Molecular Plasticity under Ocean Warming: Proteomics and Fitness Data Provides Clues for a Better Understanding of the Thermal Tolerance in Fish. Frontiers in Physiology, 2017, 8, 825.	2.8	26
39	Histopathological findings on Carassius auratus hepatopancreas upon exposure to acrylamide: correlation with genotoxicity and metabolic alterations. Journal of Applied Toxicology, 2014, 34, 1293-1302.	2.8	25
40	A description of chloride cell and kidney tubule alterations in the flatfish Solea senegalensis exposed to moderately contaminated sediments from the Sado estuary (Portugal). Journal of Sea Research, 2010, 64, 465-472.	1.6	24
41	Targeting Cancer Resistance via Multifunctional Gold Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 5510.	4.1	24
42	Effects of carcinogenic versus non-carcinogenic AHR-active PAHs and their mixtures: Lessons from ecological relevance. Environmental Research, 2015, 138, 101-111.	7.5	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. Archives of Environmental Contamination and Toxicology, 2013, 64, 97-109.	4.1	22
44	Integrated approach to the in vivo genotoxic effects of a titanium dioxide nanomaterial using LacZ plasmidâ€based transgenic mice. Environmental and Molecular Mutagenesis, 2014, 55, 500-509.	2.2	22
45	Development and application of a novel histological multichrome technique for clam histopathology. Journal of Invertebrate Pathology, 2012, 110, 411-414.	3.2	21
46	Determining oxidative and non-oxidative genotoxic effects driven by estuarine sediment contaminants on a human hepatoma cell line. Science of the Total Environment, 2014, 478, 25-35.	8.0	21
47	Toxicokinetics of Waterborne Trivalent Arsenic in the Freshwater Bivalve Corbicula fluminea. Archives of Environmental Contamination and Toxicology, 2009, 57, 338-347.	4.1	20
48	Multi-organ histopathology in gobies for estuarine environmental risk assessment: A case study in the Ibaizabal estuary (SE Bay of Biscay). Estuarine, Coastal and Shelf Science, 2016, 179, 145-154.	2.1	20
49	The hidden biotechnological potential of marine invertebrates: The Polychaeta case study. Environmental Research, 2019, 173, 270-280.	7.5	20
50	Evaluation of the potential of the common cockle (Cerastoderma edule L.) for the ecological risk assessment of estuarine sediments: bioaccumulation and biomarkers. Ecotoxicology, 2010, 19, 1496-1512.	2.4	19
51	DNA damage and metal accumulation in four tissues of feral Octopus vulgaris from two coastal areas in Portugal. Ecotoxicology and Environmental Safety, 2010, 73, 1543-1547.	6.0	19
52	Different sensitivity to heatwaves across the life cycle of fish reflects phenotypic adaptation to environmental niche. Marine Environmental Research, 2020, 162, 105192.	2.5	19
53	Metallothionein responses in the Asiatic clam (Corbicula fluminea) after exposure to trivalent arsenic. Biomarkers, 2007, 12, 589-598.	1.9	18
54	Toxicological effects and bioaccumulation in the freshwater clam (Corbicula fluminea) following exposure to trivalent arsenic. Environmental Toxicology, 2007, 22, 502-509.	4.0	17

#	Article	IF	Citations
55	Transcriptomic analyses in a benthic fish exposed to contaminated estuarine sediments through laboratory and in situ bioassays. Ecotoxicology, 2011, 20, 1749-1764.	2.4	17
56	May sediment contamination be xenoestrogenic to benthic fish? A case study with Solea senegalensis. Marine Environmental Research, 2014, 99, 170-178.	2.5	17
57	Characterization of antiproliferative potential and biological targets of a copper compound containing 4â€²-phenyl terpyridine. Journal of Biological Inorganic Chemistry, 2015, 20, 935-948.	2.6	17
58	Molecular detection of prokaryote and protozoan parasites in the commercial bivalve Ruditapes decussatus from southern Portugal. Aquaculture, 2012, 370-371, 61-67.	3.5	16
59	Ecological risk assessment of impacted estuarine areas: Integrating histological and biochemical endpoints in wild Senegalese sole. Ecotoxicology and Environmental Safety, 2013, 95, 202-211.	6.0	16
60	A Study on the Digestive Physiology of a Marine Polychaete (Eulalia viridis) through Microanatomical Changes of Epithelia During the Digestive Cycle. Microscopy and Microanalysis, 2015, 21, 91-101.	0.4	16
61	Comparing the genotoxicity of a potentially carcinogenic and a noncarcinogenic <scp>PAH</scp>, singly, and in binary combination, on peripheral blood cells of the <scp>E</scp>uropean sea bass. Environmental Toxicology, 2016, 31, 1307-1318.	4.0	16
62	Histopathological baseline levels and confounding factors in common sole (Solea solea) for marine environmental risk assessment. Marine Environmental Research, 2015, 110, 162-173.	2.5	15
63	Development of a method for the detection of polystyrene microplastics in paraffin-embedded histological sections. Histochemistry and Cell Biology, 2018, 149, 187-191.	1.7	15
64	Nitric Oxide Dependent Degradation of Polyethylene Glycolâ€Modified Singleâ€Walled Carbon Nanotubes: Implications for Intraâ€Articular Delivery. Advanced Healthcare Materials, 2018, 7, e1700916.	7.6	14
65	Metallothioneins and trace elements in digestive gland, gills, kidney and gonads of Octopus vulgaris. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2010, 152, 139-146.	2.6	13
66	Integration of sediment contamination with multi-biomarker responses in a novel potential bioindicator (Sepia officinalis) for risk assessment in impacted estuaries. Ecotoxicology, 2013, 22, 1538-1554.	2.4	13
67	Histopathological indices in sole (Solea solea) and hake (Merluccius merluccius) for implementation of the European Marine Strategy Framework Directive along the Basque continental shelf (SE Bay of) Tj ETQq1 1 0.784314 rgBT /Overlo	7.8	13
68	Pulmonary toxicity and gene expression changes after short-term inhalation exposure to surface-modified copper oxide nanoparticles. NanoImpact, 2021, 22, 100313.	4.5	13
69	Human hepatoma cells exposed to estuarine sediment contaminant extracts permitted the differentiation between cytotoxic and pro-mutagenic fractions. Environmental Pollution, 2014, 185, 141-148.	7.5	12
70	Alterations in juvenile flatfish gill epithelia induced by sediment-bound toxicants: A comparative in situ and ex situ study. Marine Environmental Research, 2015, 112, 122-130.	2.5	12
71	Applying quantitative and semi-quantitative histopathology to address the interaction between sediment-bound polycyclic aromatic hydrocarbons in fish gills. Ecotoxicology and Environmental Safety, 2016, 131, 164-171.	6.0	12
72	A morphoanatomical approach to the adaptive features of the epidermis and proboscis of a marine Polychaeta: Eulalia viridis (Phyllodocida: Phyllodocidae). Journal of Anatomy, 2018, 233, 567-579.	1.5	12

#	Article	IF	Citations
73	Technical Updates to the Comet Assay In Vivo for Assessing DNA Damage in Zebrafish Embryos from Fresh and Frozen Cell Suspensions. Zebrafish, 2020, 17, 220-228.	1.1	12
74	Co-exposure to environmental carcinogens in vivo induces neoplasia-related hallmarks in low-genotoxicity events, even after removal of insult. Scientific Reports, 2018, 8, 3649.	3.3	11
75	Explorations on the ecological role of toxin secretion and delivery in jawless predatory Polychaeta. Scientific Reports, 2018, 8, 7635.	3.3	11
76	Specific Antiproliferative Properties of Proteinaceous Toxin Secretions from the Marine Annelid Eulalia sp. onto Ovarian Cancer Cells. Marine Drugs, 2021, 19, 31.	4.6	11
77	Effects of ECF-Kraft pulp mill effluent treated with fungi (Rhizopus oryzae) on reproductive steroids and liver CYP1A of exposed goldfish (Carassius auratus). Ecotoxicology, 2009, 18, 1011-1017.	2.4	10
78	Hepatic proteome changes in Solea senegalensis exposed to contaminated estuarine sediments: a laboratory and in situ survey. Ecotoxicology, 2012, 21, 1194-1207.	2.4	10
79	An integrative assessment to determine the genotoxic hazard of estuarine sediments: combining cell and whole-organism responses. Frontiers in Genetics, 2014, 5, 437.	2.3	10
80	Exploring the Potential Interference of Estuarine Sediment Contaminants with the DNA Repair Capacity of Human Hepatoma Cells. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 559-570.	2.3	10
81	Proteomics in systems toxicology. Advances in Protein Chemistry and Structural Biology, 2021, 127, 55-91.	2.3	10
82	Biochemical and histopathological endpoints of in vivo cadmium toxicity in Sparus aurata. Ciencias Marinas, 2008, 34, .	0.4	10
83	Current aspects of DNA damage and repair in ecotoxicology: a mini-review. Ecotoxicology, 2022, 31, 1-11.	2.4	10
84	Environmental risk assessment in a contaminated estuary: An integrated weight of evidence approach as a decision support tool. Ocean and Coastal Management, 2017, 143, 51-62.	4.4	9
85	Physiological and biochemical thermal stress response of the intertidal rock goby Gobius paganellus. Ecological Indicators, 2014, 46, 232-239.	6.3	8
86	On the Progression of COVID-19 in Portugal: A Comparative Analysis of Active Cases Using Non-linear Regression. Frontiers in Public Health, 2020, 8, 495.	2.7	8
87	A Transcriptomic Approach to the Recruitment of Venom Proteins in a Marine Annelid. Toxins, 2021, 13, 97.	3.4	8
88	Metal body burden and tissue oxidative status in the bivalve Venerupis decussata from Tunisian coastal lagoons. Marine Environmental Research, 2020, 159, 105000.	2.5	8
89	Effects of the increase of temperature and CO2 concentration on polychaetae Nereis diversicolor: simulating extreme scenarios of climate change in marine sediments. Hydrobiologia, 2016, 772, 161-174.	2.0	7
90	The complexity of porphyrin-like pigments in a marine annelid sheds new light on haem metabolism in aquatic invertebrates. Scientific Reports, 2019, 9, 12930.	3.3	7

#	Article	IF	Citations
91	Histochemical detection of free thiols in glandular cells and tissues of different marine Polychaeta. Histochemistry and Cell Biology, 2020, 154, 315-325.	1.7	7
92	Chapter 1. The Comet Assay in Aquatic (Eco)genotoxicology Using Non-conventional Model Organisms: Relevance, Constraints and Prospects. Issues in Toxicology, 2017, , 1-32.	0.1	7
93	Determining DNA strand breakage from embryogenic cell cultures of a conifer species using the single-cell gel electrophoresis assay. Tree Genetics and Genomes, 2012, 8, 425-430.	1.6	6
94	Sea warming affects bream (Sparus aurata) tissues and stress proteins (HSP70). Microscopy and Microanalysis, 2013, 19, 83-84.	0.4	6
95	Light-Mediated Toxicity of Porphyrin-Like Pigments from a Marine Polychaeta. Marine Drugs, 2020, 18, 302.	4.6	6
96	An investigation into the toxicity of tissue extracts from two distinct marine Polychaeta. Toxicon: X, 2022, 14, 100116.	2.9	6
97	A microscopical study of the â€œchlorophylloidâ€•pigment cells of the marine polychaete Eulalia viridis (L.). Microscopy and Microanalysis, 2013, 19, 15-16.	0.4	5
98	A Transcriptomic Approach to the Metabolism of Tetrapyrrolic Photosensitizers in a Marine Annelid. Molecules, 2021, 26, 3924.	3.8	5
99	Effects of exposure to arsenic in Corbicula fluminea: Evaluation of the histological, histochemical and biochemical responses. Ciencias Marinas, 2008, 34, 307-316.	0.4	4
100	Endogenous Fluorescent Proteins in the Mucus of an Intertidal Polychaeta: Clues for Biotechnology. Marine Drugs, 2022, 20, 224.	4.6	4
101	A drug discovery approach based on comparative transcriptomics between two toxin-secreting marine annelids: Glycera alba and Hediste diversicolor. Molecular Omics, 2022, 18, 731-744.	2.8	4
102	Cephalotoxins: A Hotspot for Marine Bioprospecting?. Frontiers in Marine Science, 2021, 8, .	2.5	3
103	First record of Diaphus dumerilii(Myctophiformes: Myctophidae) off the Portuguese mainland coast. Journal of Fish Biology, 2004, 64, 1435-1438.	1.6	2
104	Localization and Bioreactivity of Cysteine-Rich Secretions in the Marine Gastropod Nucella lapillus. Marine Drugs, 2021, 19, 276.	4.6	2
105	Staining Protocols. , 2018, , 83-117.		1
106	Microphotography and Image Processing. , 2018, , 119-133.		1
107	Mytilus galloprovincialis CYP1A-like mRNAs reveal closer proximity of mytilid CYP1A to the eumetazoan CYP2 family. Aquatic Toxicology, 2019, 214, 105260.	4.0	1
108	Chapter 7. Emerging Systems Toxicology Approaches in Nanosafety Assessment. Issues in Toxicology, 2017, , 174-202.	0.1	1

#	Article	IF	Citations
109	The LacZ Plasmid-Based Transgenic Mouse Model: An Integrative Approach to Study the Genotoxicity of Nanomaterials. Methods in Pharmacology and Toxicology, 2014, , 451-477.	0.2	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 (Pl	0.4	0
111	Of pigments and toxins: an integrative approach to the biotechnological potential of a marine polychaete. Impact, 2017, 2017, 62-64.	0.1	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. Annals of Medicine, 2024, 51, 45-45.	3.8	0