Carlos Gravato

List of Publications by Year in descending order

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82 papers	2,902 citations	126907 33 h-index	189892 50 g-index
88 all docs	88 docs citations	88 times ranked	3298 citing authors

#	Article	IF	Citations
1	Acute effects of copper and mercury on the estuarine fish Pomatoschistus microps: Linking biomarkers to behaviour. Chemosphere, 2009, 76, 1416-1427.	8.2	247
2	Linking behavioural alterations with biomarkers responses in the European seabass Dicentrarchus labrax L. exposed to the organophosphate pesticide fenitrothion. Ecotoxicology, 2010, 19, 1369-1381.	2.4	104
3	Oxidative stress biomarkers in Senegal sole, Solea senegalensis, to assess the impact of heavy metal pollution in a Huelva estuary (SW Spain): Seasonal and spatial variation. Ecotoxicology and Environmental Safety, 2012, 75, 151-162.	6.0	100
4	Ingestion of small-sized and irregularly shaped polyethylene microplastics affect Chironomus riparius life-history traits. Science of the Total Environment, 2019, 672, 862-868.	8.0	97
5	Juvenile Sea Bass Liver P450, EROD Induction, and Erythrocytic Genotoxic Responses to PAH and PAH-like Compounds. Ecotoxicology and Environmental Safety, 2002, 51, 115-127.	6.0	87
6	Life history and biochemical effects of chlorantraniliprole on Chironomus riparius. Science of the Total Environment, 2015, 508, 506-513.	8.0	83
7	Toxicity of dyes to zebrafish at the biochemical level: Cellular energy allocation and neurotoxicity. Environmental Pollution, 2018, 235, 255-262.	7.5	79
8	Juvenile sea bass biotransformation, genotoxic and endocrine responses to Î²-naphthoflavone, 4-nonylphenol and 17Î²-estradiol individual and combined exposures. Chemosphere, 2004, 57, 147-158.	8.2	76
9	Oxidative stress, liver biotransformation and genotoxic effects induced by copper in Anguilla anguilla L. â€“ the influence of pre-exposure to Î²-naphthoflavone. Chemosphere, 2006, 65, 1821-1830.	8.2	70
10	Acute effects of deltamethrin on swimming velocity and biomarkers of the common prawn Palaemon serratus. Aquatic Toxicology, 2012, 124-125, 209-216.	4.0	69
11	Biochemical effects and polycyclic aromatic hydrocarbons (PAHs) in senegal sole (Solea senegalensis) from a Huelva estuary (SW Spain). Ecotoxicology and Environmental Safety, 2010, 73, 1842-1851.	6.0	65
12	Oxidative damage and decreased aerobic energy production due to ingestion of polyethylene microplastics by Chironomus riparius (Diptera) larvae. Journal of Hazardous Materials, 2021, 402, 123775.	12.4	62
13	Acute toxic effects of pyrene on Pomatoschistus microps (Teleostei, Gobiidae): Mortality, biomarkers and swimming performance. Ecological Indicators, 2012, 19, 206-214.	6.3	61
14	Effect of Cu-nanoparticles versus one Cu-salt: Analysis of stress biomarkers response inEnchytraeus albidus(Oligochaeta). Nanotoxicology, 2012, 6, 134-143.	3.0	59
15	Effects of Benzo(a)pyrene on Seabass (Dicentrarchus labraxL.): Biomarkers, Growth and Behavior. Human and Ecological Risk Assessment (HERA), 2009, 15, 121-137.	3.4	56
16	Challenges in assessing the toxic effects of polycyclic aromatic hydrocarbons to marine organisms: A case study on the acute toxicity of pyrene to the European seabass (Dicentrarchus labrax L.). Chemosphere, 2012, 86, 926-937.	8.2	55
17	Toxicity of organic UV-filters to the aquatic midge Chironomus riparius. Ecotoxicology and Environmental Safety, 2017, 143, 210-216.	6.0	54
18	Reproduction and biochemical responses in Enchytraeus albidus (Oligochaeta) to zinc or cadmium exposures. Environmental Pollution, 2011, 159, 1836-1843.	7.5	50

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19	Effects of Temperature in Juvenile Seabass (Dicentrarchus labrax L.) Biomarker Responses and Behaviour: Implications for Environmental Monitoring. Estuaries and Coasts, 2015, 38, 45-55.	2.2	50
20	Assessment of thiamethoxam toxicity to Chironomus riparius. Ecotoxicology and Environmental Safety, 2017, 137, 240-246.	6.0	50
21	Yellow eel (Anguilla anguilla) development in NW Portuguese estuaries with different contamination levels. Ecotoxicology, 2009, 18, 385-402.	2.4	49
22	Effects of natural and chemical stressors on Enchytraeus albidus: Can oxidative stress parameters be used as fast screening tools for the assessment of different stress impacts in soils?. Environment International, 2009, 35, 318-324.	10.0	49
23	Toxicological and behavioral responses as a tool to assess the effects of natural and synthetic dyes on zebrafish early life. Chemosphere, 2017, 178, 282-290.	8.2	48
24	Effects of carbofuran on the sea bass (Dicentrarchus labrax L.): Study of biomarkers and behaviour alterations. Ecotoxicology and Environmental Safety, 2011, 74, 1905-1912.	6.0	47
25	Responses of the aquatic midge Chironomus riparius to DEET exposure. Aquatic Toxicology, 2016, 172, 80-85.	4.0	44
26	Lumbriculus variegatus (oligochaeta) exposed to polyethylene microplastics: biochemical, physiological and reproductive responses. Ecotoxicology and Environmental Safety, 2021, 207, 111375.	6.0	41
27	Genotoxicity biomarkersâ€™ association with B(a)P biotransformation in Dicentrarchus labrax L.. Ecotoxicology and Environmental Safety, 2003, 55, 352-358.	6.0	40
28	Comparative study about the effects of pollution on glass and yellow eels (Anguilla anguilla) from the estuaries of Minho, Lima and Douro Rivers (NW Portugal). Ecotoxicology and Environmental Safety, 2010, 73, 524-533.	6.0	40
29	Dicentrarchus labrax biotransformation and genotoxicity responses after exposure to a secondary treated industrial/urban effluent. Ecotoxicology and Environmental Safety, 2003, 55, 300-306.	6.0	39
30	Ecotoxicity of two organic UV-filters to the freshwater caddisfly Sericostoma vittatum. Environmental Pollution, 2017, 228, 370-377.	7.5	39
31	Immune response triggered by the ingestion of polyethylene microplastics in the dipteran larvae Chironomus riparius. Journal of Hazardous Materials, 2021, 414, 125401.	12.4	37
32	Sub-lethal toxicity of environmentally relevant concentrations of esfenvalerate to Chironomus riparius. Environmental Pollution, 2015, 207, 273-279.	7.5	36
33	Biomarkers responses in muscle of Senegal sole (Solea senegalensis) from a heavy metals and PAHs polluted estuary. Marine Pollution Bulletin, 2012, 64, 2097-2108.	5.0	35
34	Behaviour and biomarkers as tools to assess the acute toxicity of benzo(a)pyrene in the common prawn Palaemon serratus. Marine Environmental Research, 2013, 90, 39-46.	2.5	34
35	Oxidative stress and genotoxic responses to resin acids in Mediterranean mussels. Ecotoxicology and Environmental Safety, 2005, 61, 221-229.	6.0	33
36	Swimming velocity, avoidance behavior and biomarkers in Palaemon serratus exposed to fenitrothion. Chemosphere, 2013, 90, 936-944.	8.2	33

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37	Biochemical characterization of cholinesterases in Enchytraeus albidus and assessment of in vivo and in vitro effects of different soil properties, copper and phenmedipham. Ecotoxicology, 2011, 20, 119-130.	2.4	30
38	Ca2+-H+ antiport activity in synaptic vesicles isolated from sheep brain cortex. Neuroscience Letters, 1998, 247, 87-90.	2.1	29
39	Juvenile Sea Bass Liver Biotransformation and Erythrocytic Genotoxic Responses to Pulp Mill Contaminants. Ecotoxicology and Environmental Safety, 2002, 53, 104-112.	6.0	29
40	Exposure to chlorantraniliprole affects the energy metabolism of the caddisfly Sericostoma vittatum. Environmental Toxicology and Chemistry, 2017, 36, 1584-1591.	4.3	29
41	Influence of biochar particle size on biota responses. Ecotoxicology and Environmental Safety, 2019, 174, 120-128.	6.0	28
42	Are insect repellents toxic to freshwater insects? A case study using caddisflies exposed to DEET. Chemosphere, 2016, 149, 177-182.	8.2	26
43	Lethal and sublethal toxicity assessment of Bacillus thuringiensis var. israelensis and Beauveria bassiana based bioinsecticides to the aquatic insect Chironomus riparius. Science of the Total Environment, 2020, 698, 134155.	8.0	26
44	Red disperse dyes (DR 60, DR 73 and DR 78) at environmentally realistic concentrations impact biochemical profile of early life stages of zebrafish (Danio rerio). Chemico-Biological Interactions, 2018, 292, 94-100.	4.0	25
45	Energetic costs and biochemical biomarkers associated with esfenvalerate exposure in Sericostoma vittatum. Chemosphere, 2017, 189, 445-453.	8.2	24
46	Î²-Naphthoflavone Liver EROD and Erythrocytic Nuclear Abnormality Induction in Juvenile Dicentrarchus labrax L.. Ecotoxicology and Environmental Safety, 2002, 52, 69-74.	6.0	23
47	Toxicity and bioaccumulation of phenanthrene in Enchytraeus albidus (Oligochaeta:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	4.3	23
48	Characterization of plasma cholinesterase from the White stork (Ciconia ciconia) and its in vitro inhibition by anticholinesterase pesticides. Ecotoxicology and Environmental Safety, 2013, 97, 131-138.	6.0	22
49	Using a multibiomarker approach and behavioural responses to assess the effects of anthracene in Palaemon serratus. Aquatic Toxicology, 2014, 149, 94-102.	4.0	20
50	Biochemical approaches to assess oxidative stress induced by exposure to natural and synthetic dyes in early life stages in zebrafish. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 1259-1268.	2.3	19
51	Using biomarkers to address the impacts of pollution on limpets (Patella depressa) and their mechanisms to cope with stress. Ecological Indicators, 2018, 95, 1077-1086.	6.3	19
52	Toxicity of different polycyclic aromatic hydrocarbons (PAHs) to the freshwater planarian Girardia tigrina. Environmental Pollution, 2020, 266, 115185.	7.5	19
53	Are Microplastics Impairing Marine Fish Larviculture?â€”Preliminary Results with Argyrosomus regius. Water (Switzerland), 2021, 13, 104.	2.7	19
54	Liver Phase I and Phase II Enzymatic Induction and Genotoxic Responses of Î²-Naphthoflavone Water-Exposed Sea Bass. Ecotoxicology and Environmental Safety, 2002, 52, 62-68.	6.0	18

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55	Biological Parameters Towards Polycyclic Aromatic Hydrocarbons Pollution: A Study with Dicentrarchus labrax L. Exposed to the Model Compound Benzo(a)pyrene. Water, Air, and Soil Pollution, 2012, 223, 4709-4722.	2.4	17
56	Investigating heritability of cadmium tolerance in Chironomus riparius natural populations: A physiological approach. Chemosphere, 2017, 170, 83-94.	8.2	17
57	When treatment increases the contaminant's ecotoxicity: A study of the Fenton process in the degradation of methylene blue. Chemosphere, 2021, 283, 131117.	8.2	17
58	EROD activity and cytochrome P4501A induction in liver and gills of Senegal sole Solea senegalensis from a polluted Huelva Estuary (SW Spain). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 166, 134-144.	2.6	15
59	Oxidative stress responses of Daphnia magna exposed to effluents spiked with emerging contaminants under ozonation and advanced oxidation processes. Environmental Science and Pollution Research, 2017, 24, 1735-1747.	5.3	14
60	Effects of two biopesticides and salt on behaviour, regeneration and sexual reproduction of the freshwater planarian Girardia tigrina. Journal of Hazardous Materials, 2021, 404, 124089.	12.4	14
61	Involvement of the antioxidant system in differential sensitivity of Carcinus maenas to fenitrothion exposure. Environmental Sciences: Processes and Impacts, 2013, 15, 1938.	3.5	13
62	Strategies of cellular energy allocation to cope with paraquat-induced oxidative stress: Chironomids vs Planarians and the importance of using different species. Science of the Total Environment, 2020, 741, 140443.	8.0	13
63	Oxidative Stress Assessment in Zebrafish Larvae. Methods in Molecular Biology, 2018, 1797, 477-486.	0.9	12
64	Juvenile Sea Bass Liver Biotransformation Induction and Erythrocytic Genotoxic Responses to Resin Acids. Ecotoxicology and Environmental Safety, 2002, 52, 238-247.	6.0	11
65	Effects of pyrene and benzo[a]pyrene on the reproduction and newborn morphology and behavior of the freshwater planarian Girardia tigrina. Chemosphere, 2021, 264, 128448.	8.2	11
66	Can the toxicity of polyethylene microplastics and engineered nanoclays on flatfish (Solea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td 804, 150188.	8.0	11
67	Acetylcholinesterase (AChE) Activity in Embryos of Zebrafish. Methods in Molecular Biology, 2021, 2240, 119-124.	0.9	9
68	Antioxidant defences and lipid peroxidation in wild White Storks, Ciconia ciconia, from Spain. Journal of Ornithology, 2013, 154, 971-976.	1.1	8
69	Do bio-insecticides affect only insect species? Behavior, regeneration, and sexual reproduction of a non-target freshwater planarian. Environmental Science and Pollution Research, 2022, 29, 10665-10674.	5.3	7
70	Ecophysiological effects of mercury bioaccumulation and biochemical stress in the deep-water mesopredator Etmopterus spinax (Elasmobranchii; Etmopteridae). Journal of Hazardous Materials, 2022, 423, 127245.	12.4	7
71	Seasonal Temperature Fluctuations Differently Affect the Immune and Biochemical Parameters of Diploid and Triploid Oncorhynchus mykiss Cage-Cultured in Temperate Latitudes. Sustainability, 2020, 12, 8785.	3.2	6
72	Early Life Stage Assays in Zebrafish. Methods in Molecular Biology, 2021, 2240, 77-92.	0.9	6

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73	The sexual reproduction of the nontarget planarian Girardia tigrina is affected by ecologically relevant concentrations of difenoconazole: new sensitive tools in ecotoxicology. Environmental Science and Pollution Research, 2022, 29, 27095-27103.	5.3	6
74	Concentration of Dilute Solutions of Virus of Mouse Encephalo-myelitis by Pervaporation and Ultracentrifugation.. Experimental Biology and Medicine, 1942, 49, 553-557.	2.4	5
75	Is there a common mechanism of neonicotinoid resistance among insects? Preliminary results show that F1 larvae of pre-exposed Chironomus xanthus are more tolerant to imidacloprid. Journal of Hazardous Materials Advances, 2022, 6, 100073.	3.0	5
76	The physiological consequences of delaying metamorphosis in the marine ornamental shrimp Lysmata seticaudata and its implications for aquaculture. Aquaculture, 2022, 546, 737391.	3.5	4
77	Behavioral Parameters of Planarians (Girardia tigrina) as Fast Screening, Integrative and Cumulative Biomarkers of Environmental Contamination: Preliminary Results. Water (Switzerland), 2021, 13, 1077.	2.7	2
78	Biomonitoring Studies Performed with European Eel Populations from the Estuaries of Minho, Lima and Douro Rivers (NW Portugal). , 2008, , 390-401.		2
79	Oxidative status of planarians is differently affected by PAHs: 3-5 Benzene ring compounds. Environmental Advances, 2022, 8, 100201.	4.8	1
80	Acute effects of pyrene on the common goby pomatoschistus microps (Teleostei, Gobiidae). Toxicology Letters, 2010, 196, S127-S128.	0.8	0
81	Glutathione S-transferase activity, glutathione and lipid peroxidation levels in mallard (Anas) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.8	0
82	Oxidative Status of Planarians is Differently Affected by PAHs: 3-5 Benzene Ring Compounds. SSRN Electronic Journal, 0, , .	0.4	0