Miguel Caetano

List of Publications by Year
in descending order

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133 papers	4,230 citations	101543 36 h-index	133252 59 g-index
137 all docs	137 docs citations	137 times ranked	4402 citing authors

#	Article	IF	Citations
1	Microplastics in wild fish from North East Atlantic Ocean and its potential for causing neurotoxic effects, lipid oxidative damage, and human health risks associated with ingestion exposure. Science of the Total Environment, 2020, 717, 134625.	8.0	465
2	Accumulation and biological cycling of heavy metal in four salt marsh species, from Tagus estuary (Portugal). Environmental Pollution, 2010, 158, 1661-1668.	7.5	151
3	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
4	Title is missing!. Water, Air, and Soil Pollution, 2003, 143, 23-40.	2.4	139
5	Metalâ€rich concretions on the roots of salt marsh plants: Mechanism and rate of formation. Limnology and Oceanography, 1998, 43, 245-252.	3.1	125
6	Stock and losses of trace metals from salt marsh plants. Marine Environmental Research, 2009, 67, 75-82.	2.5	124
7	Distribution of monomethylmercury and mercury in surface sediments of the Tagus Estuary (Portugal). Marine Pollution Bulletin, 2005, 50, 1142-1145.	5.0	108
8	Redox Chemistry in the Root Zone of a Salt Marsh Sediment in the Tagus Estuary, Portugal. Aquatic Geochemistry, 2003, 9, 257-271.	1.3	86
9	Tracing anthropogenic Hg and Pb input using stable Hg and Pb isotope ratios in sediments of the central Portuguese Margin. Chemical Geology, 2013, 336, 62-71.	3.3	77
10	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
11	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
12	Microplastic ingestion and diet composition of planktivorous fish. Limnology and Oceanography Letters, 2020, 5, 103-112.	3.9	69
13	Evidence for preferential depths of metal retention in roots of salt marsh plants. Science of the Total Environment, 2008, 390, 466-474.	8.0	67
14	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
15	Sources and distribution of yttrium and rare earth elements in surface sediments from Tagus estuary, Portugal. Science of the Total Environment, 2018, 621, 317-325.	8.0	66
16	Evidence for Elevated Production of Methylmercury in Salt Marshes. Environmental Science & Technology, 2007, 41, 7376-7382.	10.0	65
17	Major factors influencing the elemental composition of surface estuarine sediments: The case of 15 estuaries in Portugal. Marine Pollution Bulletin, 2014, 84, 135-146.	5.0	65
18	Root-Induced Cycling of Lead in Salt Marsh Sediments. Environmental Science & Technology, 2005, 39, 2080-2086.	10.0	63

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19	Record of diagenesis of rare earth elements and other metals in a transitional sedimentary environment. Marine Chemistry, 2009, 116, 36-46.	2.3	62
20	Assessment of contaminants and biomarkers of exposure in wild and farmed seabass. Ecotoxicology and Environmental Safety, 2010, 73, 579-588.	6.0	62
21	Tidal flushing of ammonium, iron and manganese from inter-tidal sediment pore waters. Marine Chemistry, 1997, 58, 203-211.	2.3	60
22	Retention of arsenic and phosphorus in iron-rich concretions of Tagus salt marshes. Marine Chemistry, 2002, 79, 261-271.	2.3	56
23	Geographical variation and partition of metals in tissues of Octopus vulgaris along the Portuguese coast. Science of the Total Environment, 2004, 325, 71-81.	8.0	55
24	Mobility of Pb in salt marshes recorded by total content and stable isotopic signature. Science of the Total Environment, 2007, 380, 84-92.	8.0	55
25	Estimation of the anthropogenic fraction of elements in surface sediments of the Tagus Estuary (Portugal). Marine Pollution Bulletin, 2008, 56, 1364-1367.	5.0	55
26	Rare earth elements in sediments of the Vigo Ria, NW Iberian Peninsula. Continental Shelf Research, 2009, 29, 896-902.	1.8	50
27	Mercury in contaminated sediments and pore waters enriched in sulphate (Tagus Estuary, Portugal). Environmental Pollution, 2003, 126, 425-433.	7.5	49
28	Molecular mechanisms underlying the physiological responses of the cold-water coral Desmophyllum dianthus to ocean acidification. Coral Reefs, 2014, 33, 465-476.	2.2	46
29	Short-term environmental impact of clam dredging in coastal waters (south of Portugal): chemical disturbance and subsequent recovery of seabed. Marine Environmental Research, 2003, 56, 649-664.	2.5	45
30	Effect of tidal flooding on metal distribution in pore waters of marsh sediments and its transport to water column (Tagus estuary, Portugal). Marine Environmental Research, 2010, 70, 358-367.	2.5	44
31	Defining phytoplankton class boundaries in Portuguese transitional waters: An evaluation of the ecological quality status according to the Water Framework Directive. Ecological Indicators, 2012, 19, 5-14.	6.3	43
32	Metal accumulation and oxidative stress responses in, cultured and wild, white seabream from Northwest Atlantic. Science of the Total Environment, 2008, 407, 638-646.	8.0	42
33	The relevance of defining trace metal baselines in coastal waters at a regional scale: The case of the Portuguese coast (SW Europe). Marine Environmental Research, 2012, 79, 86-99.	2.5	42
34	Rare earth elements in coastal sediments of the northern Galician shelf: Influence of geological features. Continental Shelf Research, 2012, 35, 75-85.	1.8	39
35	Decomposition of belowground litter and metal dynamics in salt marshes (Tagus Estuary, Portugal). Science of the Total Environment, 2007, 380, 93-101.	8.0	38
36	The use of biomarkers as integrative tools for transitional water bodies monitoring in the Water Framework Directive context â€" A holistic approach in Minho river transitional waters. Science of the Total Environment, 2016, 539, 85-96.	8.0	38

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37	Accumulation, elimination and neuro-oxidative damage under lanthanum exposure in glass eels (Anguilla anguilla). Chemosphere, 2018, 206, 414-423.	8.2	38
38	Formation of mid-chain alkane keto-ols by post-depositional oxidation of mid-chain diols in Mediterranean sapropels. Organic Geochemistry, 2001, 32, 271-276.	1.8	36
39	Evaluation of the contamination of platinum in estuarine and coastal sediments (Tagus Estuary and) Tj ETQq1 1 0.784314 rgBT /Over	5.0	36
40	Fe, Zn, Cu and Cd concentrations in the digestive gland and muscle tissues of Octopus vulgaris and Sepia officinalis from two coastal areas in Portugal. Ciencias Marinas, 2005, 31, 243-251.	0.4	34
41	Microplastics in fishes from an estuary (Minho River) ending into the NE Atlantic Ocean. Marine Pollution Bulletin, 2021, 173, 113008.	5.0	34
42	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
43	Natural trace element enrichment in fishes from a volcanic and tectonically active region (Azores) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	31
44	Trace-element Al composition of seston and plankton along the Portuguese coast. Acta Oecologica, 2003, 24, S341-S349.	1.1	29
45	Particulate metal distribution in Guadiana estuary punctuated by flood episodes. Estuarine, Coastal and Shelf Science, 2006, 70, 109-116.	2.1	29
46	Biogeochemical Cycle of Mercury and Methylmercury in Two Highly Contaminated Areas of Tagus Estuary (Portugal). Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	28
47	Mobility of contaminants inrelation to dredging operations in a mesotidal estuary (Tagus Estuary,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.5	27
48	Mercury and Methylmercury Dynamics in Sediments on a Protected Area of Tagus Estuary (Portugal). Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	25
49	The last frontier: Coupling technological developments with scientific challenges to improve hazard assessment of deep-sea mining. Science of the Total Environment, 2018, 627, 1505-1514.	8.0	25
50	Mercury and methylmercury transport and fate in the water column of Tagus estuary (Portugal). Marine Pollution Bulletin, 2018, 127, 235-250.	5.0	25
51	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
52	Footprint of roman and modern mining activities in a sediment core from the southwestern Iberian Atlantic shelf. Science of the Total Environment, 2016, 571, 1211-1221.	8.0	24
53	Origin and transport of trace metals deposited in the canyons off Lisboa and adjacent slopes (Portuguese Margin) in the last century. Marine Geology, 2011, 282, 169-177.	2.1	22
54	Natural and Anthropocene fluxes of trace elements in estuarine sediments of Galician Rias. Estuarine, Coastal and Shelf Science, 2017, 198, 329-342.	2.1	22

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55	Exchange of Cu and Cd across the sediment-water interface in intertidal mud flats from Ria Formosa (Portugal). Hydrobiologia, 2007, 587, 147-155.	2.0	21
56	The Condor seamount at Mid-Atlantic Ridge as a supplementary source of trace and rare earth elements to the sediments. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 98, 24-37.	1.4	21
57	Seasonal variation of methylmercury in sediment cores from the Tagus Estuary (Portugal). Marine Pollution Bulletin, 2016, 104, 162-170.	5.0	21
58	Geochemical and mineralogical characterization of surficial sediments from the Northern Rias: Implications for sediment provenance and impact of the source rocks. Marine Geology, 2012, 291-294, 63-72.	2.1	20
59	Salt-marsh plants as potential sources of Hg0 into the atmosphere. Atmospheric Environment, 2017, 152, 458-464.	4.1	20
60	Effects of infauna harvesting on tidal flats of a coastal lagoon (Ria Formosa, Portugal): Implications on phosphorus dynamics. Marine Environmental Research, 2006, 61, 136-148.	2.5	19
61	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
62	Temporal evolution of lead isotope ratios in sediments of the Central Portuguese Margin: A fingerprint of human activities. Marine Pollution Bulletin, 2013, 74, 274-284.	5.0	19
63	Distribution of Fe, Mn, Cu and Cd in Upper Sediments and Sediment-Trap Material of Ria Formosa (Portugal). Journal of Coastal Research, 2002, 36, 118-123.	0.3	19
64	A coupled biogeochemical-Dynamic Energy Budget model as a tool for managing fish production ponds. Science of the Total Environment, 2013, 463-464, 861-874.	8.0	18
65	Exchange of nutrients across the sedimentâ€“water interface in intertidal ria systems (SW Europe). Journal of Sea Research, 2014, 85, 349-358.	1.6	18
66	A multimetric approach to evaluate offshore mussel aquaculture effects on the taxonomical and functional diversity of macrobenthic communities. Marine Environmental Research, 2019, 151, 104774.	2.5	18
67	Development of physical modelling tools in support of risk scenarios: A new framework focused on deep-sea mining. Science of the Total Environment, 2019, 650, 2294-2306.	8.0	18
68	Environmental assessment of two artificial reef systems off southern Portugal (Faro and OlhÃ£o): A question of location. Continental Shelf Research, 2008, 28, 839-847.	1.8	17
69	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
70	Warming enhances lanthanum accumulation and toxicity promoting cellular damage in glass eels (Anguilla anguilla). Environmental Research, 2020, 191, 110051.	7.5	17
71	Validation and application of an analytical method for monomethylmercury quantification in aquatic plant tissues. Analytica Chimica Acta, 2006, 580, 258-262.	5.4	16
72	Basin-scale contributions of Cr, Ni and Co from Ortegal Complex to the surrounding coastal environment (SW Europe). Science of the Total Environment, 2014, 468-469, 495-504.	8.0	16

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73	Defining benchmark values for nutrients under the Water Framework Directive: Application in twelve Portuguese estuaries. Marine Chemistry, 2016, 185, 27-37.	2.3	16
74	Platinum in salt marsh sediments: Behavior and plant uptake. Marine Chemistry, 2016, 185, 91-103.	2.3	16
75	Decrease of Zn, Cd and Pb concentrations in marine fish species over a decade as response to reduction of anthropogenic inputs: The example of Tagus estuary. Marine Pollution Bulletin, 2011, 62, 2854-2858.	5.0	14
76	Element concentrations in cold-water gorgonians and black coral from Azores region. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 98, 129-136.	1.4	14
77	Rare earth elements biomonitoring using the mussel Mytilus galloprovincialis in the Portuguese coast: Seasonal variations. Marine Pollution Bulletin, 2022, 175, 113335.	5.0	14
78	Incorporation of trace elements on iron-rich concretions around plant roots of tagus estuary salt marsh (portugal). Journal of Soils and Sediments, 2003, 3, 208-212.	3.0	13
79	Elemental composition of two ecologically contrasting seamount fishes, the bluemouth (Helicolenus) Tj ETQq1 1 0.784314 rgBT /Ove 112-121.	5.0	13
80	Anthropogenic changes in the fluxes to estuaries: Wastewater discharges compared with river loads in small rias. Estuarine, Coastal and Shelf Science, 2016, 179, 112-123.	2.1	13
81	Tidally driven N, P, Fe and Mn exchanges in salt marsh sediments of Tagus estuary (SW Europe). Environmental Monitoring and Assessment, 2012, 184, 6541-6552.	2.7	12
82	Osmium and Platinum Decoupling in the Environment: Evidences in Intertidal Sediments (Tagus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	10.0	12
83	Insights of Pb isotopic signature into the historical evolution and sources of Pb contamination in a sediment core of the southwestern Iberian Atlantic shelf. Science of the Total Environment, 2017, 586, 473-484.	8.0	12
84	Ecotoxicology of deep-sea environments: Functional and biochemical effects of suspended sediments in the model species Mytilus galloprovincialis under hyperbaric conditions. Science of the Total Environment, 2019, 670, 218-225.	8.0	12
85	Effects of salt marsh plants on mobility and bioavailability of REE in estuarine sediments. Science of the Total Environment, 2021, 759, 144314.	8.0	12
86	Industrial supply of trace elements during the â€œAnthropoceneâ€• A record in estuarine sediments from the Ria of Ferrol (NW Iberian Peninsula). Marine Chemistry, 2020, 223, 103825.	2.3	12
87	Variations of Mn, Fe and S concentrations in sediment pore waters of Ria Formosa at different time scales. Netherlands Journal of Aquatic Ecology, 1995, 29, 275-281.	0.3	11
88	Metal composition and fluxes of sinking particles and post-depositional transformation in a ria coastal system (NW Iberian Peninsula). Marine Chemistry, 2012, 134-135, 36-46.	2.3	11
89	Contributions of trace elements to the sea by small uncontaminated rivers: Effects of a water reservoir and a wastewater treatment plant. Chemosphere, 2017, 178, 173-186.	8.2	11
90	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

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91	Salt-marsh areas as copper complexing ligand sources to estuarine and coastal systems. Chemosphere, 2013, 90, 772-781.	8.2	10
92	Perceived impact of offshore aquaculture area on small-scale fisheries: A fuzzy logic model approach. Fisheries Research, 2015, 170, 217-227.	1.7	10
93	Stakeholders' conceptualization of offshore aquaculture and small-scale fisheries interactions using a Bayesian approach. Ocean and Coastal Management, 2017, 138, 70-82.	4.4	10
94	Improved voltammetric method for simultaneous determination of Pt and Rh using second derivative signal transformation â€“ application to environmental samples. Talanta, 2017, 175, 1-8.	5.5	10
95	Changes in REE fractionation induced by the halophyte plant Halimione portulacoides, from SW European salt marshes. Marine Chemistry, 2020, 223, 103805.	2.3	10
96	Functional, biochemical and molecular impact of sediment plumes from deep-sea mining on Mytilus galloprovincialis under hyperbaric conditions. Environmental Research, 2021, 195, 110753.	7.5	10
97	Assessing variability in the ratio of metal concentrations measured by DGT-type passive samplers and spot sampling in European seawaters. Science of the Total Environment, 2021, 783, 147001.	8.0	10
98	Concurrent sampling of transitional and coastal waters by Diffusive Gradient in Thin-films (DGT) and spot sampling for trace metals analysis. MethodsX, 2021, 8, 101462.	1.6	10
99	Thorium accumulation in the sedimentary environment of the Vigo Ria (NW Iberian Peninsula). Journal of Environmental Radioactivity, 2008, 99, 1631-1635.	1.7	9
100	Cuttlefish capsule: An effective shield against contaminants in the wild. Chemosphere, 2015, 135, 7-13.	8.2	9
101	Single and combined ecotoxicological effects of ocean warming, acidification and lanthanum exposure on the surf clam (Spisula solida). Chemosphere, 2022, 302, 134850.	8.2	9
102	Cerium uptake, translocation and toxicity in the salt marsh halophyte Halimione portulacoides (L.), Aellen. Chemosphere, 2021, 266, 128973.	8.2	8
103	Total lead and its stable isotopes in the digestive gland of Octopus vulgaris as a fingerprint. Aquatic Biology, 2009, 6, 25-30.	1.4	8
104	Modelling of biogeochemical processes in fish earth ponds: Model development and calibration. Ecological Modelling, 2012, 247, 286-301.	2.5	7
105	Prevalence of tide-induced transport over other metal sources in a geologically enriched temperate estuarine zone (NW Iberian Peninsula). Journal of Geochemical Exploration, 2014, 140, 46-55.	3.2	7
106	Lithogenic sources, composition and intra-annual variability of suspended particulate matter supplied from rivers to the Northern Galician Rias (Bay of Biscay). Journal of Sea Research, 2017, 130, 73-84.	1.6	7
107	Hg and Se composition in demersal deep-sea fish from the North-East Atlantic. Environmental Science and Pollution Research, 2020, 27, 33649-33657.	5.3	7
108	Fluvial contributions of nutrient salts, dissolved trace elements and organic carbon to the sea by pristine temperate rivers (SW Europe). Environmental Chemistry, 2013, 10, 42.	1.5	7

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109	Metals concentrations in transitional and coastal waters by ICPMS and voltammetry analysis of spot samples and passive samplers (DGT). Marine Pollution Bulletin, 2022, 179, 113715.	5.0	7
110	Microdistribution of major to trace elements between roots of Halimione portulacoides and host sediments (Tagus estuary marsh, Portugal). Plant and Soil, 2014, 376, 129-137.	3.7	6
111	Platinum and rhodium in Tagus estuary, SW Europe: sources and spatial distribution. Environmental Monitoring and Assessment, 2019, 191, 579.	2.7	6
112	Diversity and Hydrocarbon-Degrading Potential of Deep-Sea Microbial Community from the Mid-Atlantic Ridge, South of the Azores (North Atlantic Ocean). Microorganisms, 2021, 9, 2389.	3.6	6
113	Speciation analysis of Pt and Rh in urban road dust leachates. Science of the Total Environment, 2020, 722, 137954.	8.0	5
114	Rare earth and trace elements in deep-sea sponges of the North Atlantic. Marine Pollution Bulletin, 2021, 166, 112217.	5.0	5
115	An artificial reef at the edge of the deep: An interdisciplinary case study. Ocean and Coastal Management, 2021, 210, 105729.	4.4	5
116	Elemental composition and contaminants in surface sediments of the Mondego river estuary. , 2002, , 541-550.		5
117	Mercury in sediments and pore waters at a contaminated site in the Tagus estuary. Ciencias Marinas, 2003, 29, 535-545.	0.4	5
118	Effect of salt-marsh plants on the mobility of Cr in sediments. Ciencias Marinas, 2008, 34, 363-372.	0.4	5
119	Lanthanum and Gadolinium availability in aquatic mediums: New insights to ecotoxicology and environmental studies. Journal of Trace Elements in Medicine and Biology, 2022, 71, 126957.	3.0	5
120	Role of microorganisms in mineralization processes in intertidal surface sediments subject to high temperatures: An incubation experiment. Netherlands Journal of Aquatic Ecology, 1995, 29, 257-263.	0.3	3
121	Abnormal mortality of octopus after a storm water event: Accumulated lead and lead isotopes as fingerprints. Science of the Total Environment, 2017, 581-582, 289-296.	8.0	3
122	Searching Relationships between Tissue Elemental Concentrations and Geographical Distribution of Bigeye Tuna(Thunnus Obesus) from the South Atlantic Ocean. Journal of Fisheriessciencescom, 2017, 11, .	0.2	3
123	Bioaccumulation of Trace Elements in Myctophids in the Oxygen Minimum Zone Ecosystem of the Gulf of California. Oceans, 2020, 1, 34-46.	1.3	3
124	Drivers of Rh and Pt variability in the water column of a hydrodynamic estuary: Effects of contrasting environments. Science of the Total Environment, 2021, 760, 143909.	8.0	3
125	Lanthanides and yttrium in the sediments of the lower Minho River (NW Iberian Peninsula): imprint of tributaries. Journal of Soils and Sediments, 2019, 19, 2558-2569.	3.0	2
126	Influence of diagenetic processes and terrestrial/anthropogenic sources in the REE contents of the Cascais submarine canyon (Iberian western coast). Science of the Total Environment, 2021, 773, 145539.	8.0	2

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127	Yttrium in the Vigo Ria (NW Iberian Peninsula): Sources, distribution, and background levels. Ciencias Marinas, 2008, 34, .	0.4	2
128	EstuÃ¡rios. , 2019, , 381-421.		2
129	Differential tissue accumulation in the invasive Manila clam, Ruditapes philippinarum, under two environmentally relevant lanthanum concentrations. Environmental Monitoring and Assessment, 2022, 194, 11.	2.7	2
130	A triple threat: ocean warming, acidification and rare earth elements exposure triggers a superior antioxidant response and pigment production in the adaptable Ulva rigida. Environmental Advances, 2022, , 100235.	4.8	2
131	Replying to Domingues et al., Ecological Indicators, 24, 245â€“255, http://dx.doi.org/10.1016/j.ecolind.2012.06.020. Ecological Indicators, 2013, 27, 123-124.	6.3	0
132	Passive sampling techniques for monitoring metals in transitional and coastal waters in the Atlantic region. , 2019, , .		0
133	Contaminant Cycling Under Climate Change: Evidences and Scenarios. , 2011, , 133-156.		0