

Armando C. Duarte

List of Publications by Year in descending order

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566
papers

27,674
citations

8181

76
h-index

11308

136
g-index

578
all docs

578
docs citations

578
times ranked

27127
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental exposure to microplastics: An overview on possible human health effects. <i>Science of the Total Environment</i> , 2020, 702, 134455.	8.0	1,101
2	(Nano)plastics in the environment – Sources, fates and effects. <i>Science of the Total Environment</i> , 2016, 566-567, 15-26.	8.0	725
3	COVID-19 Pandemic Repercussions on the Use and Management of Plastics. <i>Environmental Science & Technology</i> , 2020, 54, 7760-7765.	10.0	649
4	A critical overview of the analytical approaches to the occurrence, the fate and the behavior of microplastics in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 65, 47-53.	11.4	648
5	Methods for sampling and detection of microplastics in water and sediment: A critical review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 110, 150-159.	11.4	643
6	Increased plastic pollution due to COVID-19 pandemic: Challenges and recommendations. <i>Chemical Engineering Journal</i> , 2021, 405, 126683.	12.7	552
7	Microplastics in the environment: Challenges in analytical chemistry - A review. <i>Analytica Chimica Acta</i> , 2018, 1017, 1-19.	5.4	546
8	Supercritical fluid extraction of bioactive compounds. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 76, 40-51.	11.4	430
9	Graphene based sensors and biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 91, 53-66.	11.4	425
10	Biodegradation of polyethylene microplastics by the marine fungus <i>Zalerion maritimum</i> . <i>Science of the Total Environment</i> , 2017, 586, 10-15.	8.0	421
11	Histopathological and molecular effects of microplastics in <i>Eisenia andrei</i> Bouché. <i>Environmental Pollution</i> , 2017, 220, 495-503.	7.5	412
12	Rethinking and optimising plastic waste management under COVID-19 pandemic: Policy solutions based on redesign and reduction of single-use plastics and personal protective equipment. <i>Science of the Total Environment</i> , 2020, 742, 140565.	8.0	331
13	Significance of interactions between microplastics and POPs in the marine environment: A critical overview. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 252-260.	11.4	313
14	Effects of microplastics on microalgae populations: A critical review. <i>Science of the Total Environment</i> , 2019, 665, 400-405.	8.0	288
15	A synopsis on aging – Theories, mechanisms and future prospects. <i>Ageing Research Reviews</i> , 2016, 29, 90-112.	10.9	277
16	Solutions and Integrated Strategies for the Control and Mitigation of Plastic and Microplastic Pollution. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2411.	2.6	258
17	Recent Progress in Biosensors for Environmental Monitoring: A Review. <i>Sensors</i> , 2017, 17, 2918.	3.8	255
18	Lipids and proteins – major targets of oxidative modifications in abiotic stressed plants. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4099-4121.	5.3	252

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19	Recent developments in recognition elements for chemical sensors and biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 68, 2-17.	11.4	242
20	Chemical composition of red, brown and green macroalgae from Buarcos bay in Central West Coast of Portugal. <i>Food Chemistry</i> , 2015, 183, 197-207.	8.2	241
21	Review of analytical figures of merit of sensors and biosensors in clinical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1172-1183.	11.4	220
22	Levels, sources and potential human health risks of organic pollutants in urban soils. <i>Science of the Total Environment</i> , 2012, 430, 184-192.	8.0	204
23	Nanoscale materials and their use in water contaminants removal—a review. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1239-1260.	5.3	192
24	Identifying a quick and efficient method of removing organic matter without damaging microplastic samples. <i>Science of the Total Environment</i> , 2019, 686, 131-139.	8.0	182
25	Spectroscopic study of the water-soluble organic matter isolated from atmospheric aerosols collected under different atmospheric conditions. <i>Analytica Chimica Acta</i> , 2005, 530, 7-14.	5.4	165
26	Comparison of structural features of water-soluble organic matter from atmospheric aerosols with those of aquatic humic substances. <i>Atmospheric Environment</i> , 2007, 41, 8100-8113.	4.1	163
27	Contamination issues as a challenge in quality control and quality assurance in microplastics analytics. <i>Journal of Hazardous Materials</i> , 2021, 403, 123660.	12.4	155
28	A new approach for routine quantification of microplastics using Nile Red and automated software (MP-VAT). <i>Science of the Total Environment</i> , 2019, 690, 1277-1283.	8.0	149
29	Jacks of metal/metalloid chelation trade in plants—An overview. <i>Frontiers in Plant Science</i> , 2015, 6, 192.	3.6	148
30	Degradation of polyethylene microplastics in seawater: Insights into the environmental degradation of polymers. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 866-875.	1.7	148
31	Glutathione and its dependent enzymes—modulatory responses to toxic metals and metalloids in fish—a review. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2133-2149.	5.3	147
32	Silver nanoparticles in soil—plant systems. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	144
33	Oxidative stress, energy metabolism and molecular responses of earthworms (<i>Eisenia fetida</i>) exposed to low-density polyethylene microplastics. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33599-33610.	5.3	139
34	Single-bilayer graphene oxide sheet impacts and underlying potential mechanism assessment in germinating faba bean (<i>Vicia faba</i> L.). <i>Science of the Total Environment</i> , 2014, 472, 834-841.	8.0	137
35	Composition of extractable organic matter of air particles from rural and urban Portuguese areas. <i>Atmospheric Environment</i> , 2001, 35, 5485-5496.	4.1	136
36	Fractionation of potentially toxic elements in urban soils from five European cities by means of a harmonised sequential extraction procedure. <i>Analytica Chimica Acta</i> , 2006, 565, 63-72.	5.4	133

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37	Impact of Enzyme- and Ultrasound-Assisted Extraction Methods on Biological Properties of Red, Brown, and Green Seaweeds from the Central West Coast of Portugal. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 3177-3188.	5.2	130
38	A One Health perspective of the impacts of microplastics on animal, human and environmental health. <i>Science of the Total Environment</i> , 2021, 777, 146094.	8.0	130
39	Organic components of aerosols in a forested area of central Greece. <i>Atmospheric Environment</i> , 2001, 35, 389-401.	4.1	125
40	Identification, abundance and origin of atmospheric organic particulate matter in a Portuguese rural area. <i>Atmospheric Environment</i> , 2001, 35, 1365-1375.	4.1	125
41	Nanoscale copper in the soil-plant system toxicity and underlying potential mechanisms. <i>Environmental Research</i> , 2015, 138, 306-325.	7.5	124
42	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. <i>Protoplasma</i> , 2014, 251, 1265-1283.	2.1	121
43	Mercury pollution in Ria de Aveiro (Portugal): a review of the system assessment. <i>Environmental Monitoring and Assessment</i> , 2009, 155, 39-49.	2.7	120
44	Effects of organic and inorganic amendments on soil organic matter properties. <i>Geoderma</i> , 2009, 150, 38-45.	5.1	118
45	Critical overview on the application of sensors and biosensors for clinical analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 36-60.	11.4	113
46	Macroalgae response to a mercury contamination gradient in a temperate coastal lagoon (Ria de Aveiro). <i>Environmental Pollution</i> , 2010, 110, 107-112.	2.1	112
47	Glutathione and proline can coordinately make plants withstand the joint attack of metal(loid) and salinity stresses. <i>Frontiers in Plant Science</i> , 2014, 5, 662.	3.6	111
48	Too much is bad: an appraisal of phytotoxicity of elevated plant-beneficial heavy metal ions. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3361-3382.	5.3	108
49	Study on bioaccumulation and biosorption of mercury by living marine macroalgae: Prospecting for a new remediation biotechnology applied to saline waters. <i>Chemical Engineering Journal</i> , 2015, 281, 759-770.	12.7	107
50	Risk assessment for Cd, Cu, Pb and Zn in urban soils: Chemical availability as the central concept. <i>Environmental Pollution</i> , 2013, 183, 234-242.	7.5	106
51	Advances in point-of-care technologies with biosensors based on carbon nanotubes. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 45, 24-36.	11.4	105
52	Strategies for enhancing the analytical performance of nanomaterial-based sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 47, 27-36.	11.4	103
53	Marine biotechnology advances towards applications in new functional foods. <i>Biotechnology Advances</i> , 2012, 30, 1506-1515.	11.7	102
54	Development and application of a capillary electrophoresis based method for the simultaneous screening of six antibiotics in spiked milk samples. <i>Talanta</i> , 2007, 71, 731-737.	5.5	100

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55	Multivariate curve resolution of overlapping voltammetric peaks: quantitative analysis of binary and quaternary metal mixtures. <i>Analyst</i> , 2002, 127, 809-817.	3.5	97
56	Heavy metal mobility assessment in sediments based on a kinetic approach of the EDTA extraction: search for optimal experimental conditions. <i>Analytica Chimica Acta</i> , 2002, 459, 245-256.	5.4	97
57	Olive oil mill wastewaters before and after treatment: a critical review from the ecotoxicological point of view. <i>Ecotoxicology</i> , 2012, 21, 615-629.	2.4	97
58	Microplastics in soils: assessment, analytics and risks. <i>Environmental Chemistry</i> , 2019, 16, 18.	1.5	97
59	Identification of microplastics in white wines capped with polyethylene stoppers using micro-Raman spectroscopy. <i>Food Chemistry</i> , 2020, 331, 127323.	8.2	95
60	The prediction of PAHs bioavailability in soils using chemical methods: State of the art and future challenges. <i>Science of the Total Environment</i> , 2014, 472, 463-480.	8.0	93
61	Removal of mercury (II) by dithiocarbamate surface functionalized magnetite particles: Application to synthetic and natural spiked waters. <i>Water Research</i> , 2011, 45, 5773-5784.	11.3	92
62	Accumulation of Mercury in Sea Bass from a Contaminated Lagoon (Ria de Aveiro, Portugal). <i>Marine Pollution Bulletin</i> , 2000, 40, 293-297.	5.0	91
63	Risk assessment of urban soils contamination: The particular case of polycyclic aromatic hydrocarbons. <i>Science of the Total Environment</i> , 2016, 551-552, 271-284.	8.0	91
64	Mercury distribution in key tissues of fish (<i>Liza aurata</i>) inhabiting a contaminated estuary—implications for human and ecosystem health risk assessment. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1004.	2.1	90
65	Effect of Soil Organic Matter, Soil pH, and Moisture Content on Solubility and Dissolution Rate of CuO NPs in Soil. <i>Environmental Science & Technology</i> , 2019, 53, 4959-4967.	10.0	90
66	Foamability, Foam Stability, and Chemical Composition of Espresso Coffee As Affected by the Degree of Roast. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 3238-3243.	5.2	89
67	Kinetic approach to heavy metal mobilization assessment in sediments: choose of kinetic equations and models to achieve maximum information. <i>Talanta</i> , 2005, 66, 844-857.	5.5	88
68	The importance of contamination control in airborne fibers and microplastic sampling: Experiences from indoor and outdoor air sampling in Aveiro, Portugal. <i>Marine Pollution Bulletin</i> , 2020, 159, 111522.	5.0	88
69	Microplastics in landfill leachates: The need for reconnaissance studies and remediation technologies. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100072.	6.1	86
70	Atmospheric aerosol and soiling of external surfaces in an urban environment. <i>Atmospheric Environment</i> , 1998, 32, 1979-1989.	4.1	85
71	Modulation of glutathione and its related enzymes in plants—responses to toxic metals and metalloids—A review. <i>Environmental and Experimental Botany</i> , 2011, 75, 307-307.	4.2	84
72	The Role of Legislation, Regulatory Initiatives and Guidelines on the Control of Plastic Pollution. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	84

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73	Mercury contamination in the vicinity of a chlor-alkali plant and potential risks to local population. <i>Science of the Total Environment</i> , 2009, 407, 2689-2700.	8.0	82
74	Disposable sensors for environmental monitoring of lead, cadmium and mercury. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 64, 183-190.	11.4	82
75	Extractability and mobility of mercury from agricultural soils surrounding industrial and mining contaminated areas. <i>Chemosphere</i> , 2010, 81, 1369-1377.	8.2	79
76	Micro(nano)plastics – Analytical challenges towards risk evaluation. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 173-184.	11.4	79
77	Spectroscopic characteristics of ultrafiltration fractions of fulvic and humic acids isolated from an eucalyptus bleached Kraft pulp mill effluent. <i>Water Research</i> , 2003, 37, 4073-4080.	11.3	78
78	Variability in concentrations of potentially toxic elements in urban parks from six European cities. <i>Journal of Environmental Monitoring</i> , 2006, 8, 1158-1165.	2.1	78
79	Evaluation of an approach for the characterization of reactive and available pools of twenty potentially toxic elements in soils: Part I – The role of key soil properties in the variation of contaminants’ reactivity. <i>Chemosphere</i> , 2010, 81, 1549-1559.	8.2	78
80	Elemental analysis for categorization of wines and authentication of their certified brand of origin. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 548-562.	3.9	77
81	Worldwide contamination of fish with microplastics: A brief global overview. <i>Marine Pollution Bulletin</i> , 2020, 160, 111681.	5.0	77
82	Simple methodology for methylmercury and inorganic mercury determinations by high-performance liquid chromatography–cold vapour atomic fluorescence spectrometry. <i>Analytica Chimica Acta</i> , 2001, 448, 135-143.	5.4	75
83	Natural organic matter in urban aerosols: Comparison between water and alkaline soluble components using excitation–emission matrix fluorescence spectroscopy and multiway data analysis. <i>Atmospheric Environment</i> , 2015, 102, 1-10.	4.1	75
84	The variability of polychlorinated biphenyls levels in urban soils from five European cities. <i>Environmental Pollution</i> , 2009, 157, 511-518.	7.5	74
85	Accumulation, distribution and cellular partitioning of mercury in several halophytes of a contaminated salt marsh. <i>Chemosphere</i> , 2009, 76, 1348-1355.	8.2	73
86	Risks of Covid-19 face masks to wildlife: Present and future research needs. <i>Science of the Total Environment</i> , 2021, 792, 148505.	8.0	73
87	Removal and recovery of Critical Rare Elements from contaminated waters by living <i>Gracilaria gracilis</i> . <i>Journal of Hazardous Materials</i> , 2018, 344, 531-538.	12.4	72
88	A review of regulatory decisions for environmental protection: Part I – Challenges in the implementation of national soil policies. <i>Environment International</i> , 2009, 35, 202-213.	10.0	70
89	Using capillary electrophoresis for the determination of organic acids in Port wine. <i>Analytica Chimica Acta</i> , 2004, 513, 163-167.	5.4	69
90	Label-free disposable immunosensor for detection of atrazine. <i>Talanta</i> , 2016, 146, 430-434.	5.5	69

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91	Optical fiber biosensor coupled to chromatographic separation for screening of dopamine, norepinephrine and epinephrine in human urine and plasma. <i>Talanta</i> , 2009, 80, 853-857.	5.5	68
92	A framework to measure the availability of engineered nanoparticles in soils: Trends in soil tests and analytical tools. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 75, 129-140.	11.4	68
93	An easy method for processing and identification of natural and synthetic microfibers and microplastics in indoor and outdoor air. <i>MethodsX</i> , 2020, 7, 100762.	1.6	68
94	Spectroscopic characterization of dissolved organic matter isolated from rainwater. <i>Chemosphere</i> , 2009, 74, 1053-1061.	8.2	67
95	Microplastics “ Occurrence, Fate and Behaviour in the Environment. <i>Comprehensive Analytical Chemistry</i> , 2017, , 1-24.	1.3	67
96	An estimation of industrial mercury stored in sediments of a confined area of the Lagoon of Aveiro (Portugal). <i>Water Science and Technology</i> , 1998, 37, 125.	2.5	66
97	Tidal export of particulate mercury from the most contaminated area of Aveiro's Lagoon, Portugal. <i>Science of the Total Environment</i> , 1998, 213, 157-163.	8.0	66
98	Biological treatment of the effluent from a bleached kraft pulp mill using basidiomycete and zygomycete fungi. <i>Science of the Total Environment</i> , 2009, 407, 3282-3289.	8.0	66
99	Mercury biomagnification in a contaminated estuary food web: Effects of age and trophic position using stable isotope analyses. <i>Marine Pollution Bulletin</i> , 2013, 69, 110-115.	5.0	66
100	Thermo-desorption: A valid tool for mercury speciation in soils and sediments?. <i>Geoderma</i> , 2015, 237-238, 98-104.	5.1	66
101	Application of Non-Ionic Solid Sorbents (XAD Resins) for the Isolation and Fractionation of Water-Soluble Organic Compounds from Atmospheric Aerosols. <i>Journal of Atmospheric Chemistry</i> , 2005, 51, 79-93.	3.2	65
102	Development and validation of a simple thermo-desorption technique for mercury speciation in soils and sediments. <i>Talanta</i> , 2012, 99, 363-368.	5.5	65
103	Bioaccumulation of Hg, Cd and Pb by <i>Fucus vesiculosus</i> in single and multi-metal contamination scenarios and its effect on growth rate. <i>Chemosphere</i> , 2017, 171, 208-222.	8.2	65
104	Immobilization strategies and analytical applications for metallic and metal-oxide nanomaterials on surfaces. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 40, 90-105.	11.4	64
105	Comparative characterization of humic substances from the open ocean, estuarine water and fresh water. <i>Organic Geochemistry</i> , 2009, 40, 942-950.	1.8	63
106	Effects of spatial and seasonal factors on the characteristics and carbonyl index of (micro)plastics in a sandy beach in Aveiro, Portugal. <i>Science of the Total Environment</i> , 2020, 709, 135892.	8.0	63
107	Mercury in urban soils: A comparison of local spatial variability in six European cities. <i>Science of the Total Environment</i> , 2006, 368, 926-936.	8.0	62
108	Nutrient dynamics and seasonal succession of phytoplankton assemblages in a Southern European Estuary: Ria de Aveiro, Portugal. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 71, 480-490.	2.1	61

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109	Two-Dimensional NMR Studies of Water-Soluble Organic Matter in Atmospheric Aerosols. <i>Environmental Science & Technology</i> , 2008, 42, 8224-8230.	10.0	61
110	Degradation of phenols in olive oil mill wastewater by biological, enzymatic, and photo-Fenton oxidation. <i>Environmental Science and Pollution Research</i> , 2010, 17, 650-656.	5.3	61
111	Simple and effective chitosan based films for the removal of Hg from waters: Equilibrium, kinetic and ionic competition. <i>Chemical Engineering Journal</i> , 2016, 300, 217-229.	12.7	61
112	Contaminants in aquaculture: Overview of analytical techniques for their determination. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 293-310.	11.4	61
113	The macrobenthic community along a mercury contamination in a temperate estuarine system (Ria de Tj ETQq1 1 0,784314 µgBT /Over	8.0	66
114	InÂvitro fermentation and prebiotic potential of selected extracts from seaweeds and mushrooms. <i>LWT - Food Science and Technology</i> , 2016, 73, 131-139.	5.2	60
115	Transport phenomena of nanoparticles in plants and animals/humans. <i>Environmental Research</i> , 2016, 151, 233-243.	7.5	60
116	A macroalgae-based biotechnology for water remediation: Simultaneous removal of Cd, Pb and Hg by living <i>Ulva lactuca</i> . <i>Journal of Environmental Management</i> , 2017, 191, 275-289.	7.8	60
117	Synchronous Scan and Excitation-Emission Matrix Fluorescence Spectroscopy of Water-Soluble Organic Compounds in Atmospheric Aerosols. <i>Journal of Atmospheric Chemistry</i> , 2004, 48, 157-171.	3.2	59
118	Removal of low concentration Hg ²⁺ from natural waters by microporous and layered titanosilicates. <i>Microporous and Mesoporous Materials</i> , 2007, 103, 325-332.	4.4	59
119	Single-bilayer graphene oxide sheet tolerance and glutathione redox system significance assessment in faba bean (<i>Vicia faba</i> L.). <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	59
120	Review of the ecotoxicological effects of emerging contaminants to soil biota. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 992-1007.	1.7	59
121	Major factors influencing the quantification of Nile Red stained microplastics and improved automatic quantification (MP-VAT 2.0). <i>Science of the Total Environment</i> , 2020, 719, 137498.	8.0	59
122	An urgent call to think globally and act locally on landfill disposable plastics under and after covid-19 pandemic: Pollution prevention and technological (Bio) remediation solutions. <i>Chemical Engineering Journal</i> , 2021, 426, 131201.	12.7	59
123	Salt Marsh Halophyte Services to Metalâ€™Metalloid Remediation: Assessment of the Processes and Underlying Mechanisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2038-2106.	12.8	58
124	The influence of pulp and paper mill effluents on the composition of the humic fraction of aquatic organic matter. <i>Water Research</i> , 1998, 32, 597-608.	11.3	57
125	Mercury cycling and sequestration in salt marshes sediments: An ecosystem service provided by <i>Juncus maritimus</i> and <i>Scirpus maritimus</i> . <i>Environmental Pollution</i> , 2011, 159, 1869-1876.	7.5	56
126	First spectroscopic study on the structural features of dissolved organic matter isolated from rainwater in different seasons. <i>Science of the Total Environment</i> , 2012, 426, 172-179.	8.0	56

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127	Trends in data processing of comprehensive two-dimensional chromatography: State of the art. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 31-45.	2.3	55
128	Particulate Size Distributed Organic Compounds in a Forest Atmosphere. <i>Environmental Science & Technology</i> , 2000, 34, 4287-4293.	10.0	54
129	Brain as a critical target of mercury in environmentally exposed fish (<i>Dicentrarchus</i>). <i>Environmental Science & Technology</i> , 2010, 44, 5066-5071.	4.0	54
130	Influence of different organic amendments on the potential availability of metals from soil: A study on metal fractionation and extraction kinetics by EDTA. <i>Chemosphere</i> , 2010, 78, 389-396.	8.2	53
131	A critical review of advanced analytical techniques for water-soluble organic matter from atmospheric aerosols. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1659-1671.	11.4	53
132	Improving Growth and Productivity of Oleiferous Brassicas under Changing Environment: Significance of Nitrogen and Sulphur Nutrition, and Underlying Mechanisms. <i>Scientific World Journal</i> , 2012, 1-12.	2.1	53
133	Distribution of Mercury in the Sediments and Fishes of the Lagoon of Aveiro, Portugal. <i>Water Science and Technology</i> , 1986, 18, 141-148.	2.5	52
134	Antioxidant system breakdown in brain of feral golden grey mullet (<i>Liza aurata</i>) as an effect of mercury exposure. <i>Ecotoxicology</i> , 2010, 19, 1034-1045.	2.4	52
135	Sorption-Desorption Behavior of Atrazine on Soils Subjected to Different Organic Long-Term Amendments. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 3101-3106.	5.2	52
136	Pesticide application to agricultural fields: effects on the reproduction and avoidance behaviour of <i>Folsomia candida</i> and <i>Eisenia andrei</i> . <i>Ecotoxicology</i> , 2012, 21, 2113-2122.	2.4	52
137	Analytical techniques for discovery of bioactive compounds from marine fungi. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 34, 97-110.	11.4	52
138	Pattern and annual rates of <i>Scrobicularia plana</i> mercury bioaccumulation in a human induced mercury gradient (Ria de Aveiro, Portugal). <i>Estuarine, Coastal and Shelf Science</i> , 2006, 69, 629-635.	2.1	51
139	Water-soluble fraction of mercury, arsenic and other potentially toxic elements in highly contaminated sediments and soils. <i>Chemosphere</i> , 2010, 78, 1301-1312.	8.2	51
140	Lipid peroxidation vs. antioxidant modulation in the bivalve <i>Scrobicularia plana</i> in response to environmental mercury: Organ specificities and age effect. <i>Aquatic Toxicology</i> , 2011, 103, 150-158.	4.0	51
141	Metallothioneins failed to reflect mercury external levels of exposure and bioaccumulation in marine fish - Considerations on tissue and species specific responses. <i>Chemosphere</i> , 2011, 85, 114-121.	8.2	51
142	Assessing the ecotoxicity of metal nano-oxides with potential for wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015, 22, 13212-13224.	5.3	51
143	Biotechnological tools for the effective management of plastics in the environment. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 410-441.	12.8	50
144	Mercury cycling between the water column and surface sediments in a contaminated area. <i>Water Research</i> , 2006, 40, 2893-2900.	11.3	49

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145	Soil-plant-animal transfer models to improve soil protection guidelines: A case study from Portugal. <i>Environment International</i> , 2012, 39, 27-37.	10.0	49
146	Challenges in the identification and characterization of free amino acids and proteinaceous compounds in atmospheric aerosols: A critical review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 75, 97-107.	11.4	49
147	Distribution and accumulation of metals (Cu, Cd, Zn and Pb) in sediments of a lagoon on the northwestern coast of Portugal. <i>Marine Pollution Bulletin</i> , 2003, 46, 1200-1205.	5.0	48
148	Determination of Organic Mercury in Biota, Plants and Contaminated Sediments Using a Thermal Atomic Absorption Spectrometry Technique. <i>Water, Air, and Soil Pollution</i> , 2006, 174, 223-234.	2.4	48
149	Fixed-bed removal of Hg ²⁺ from contaminated water by microporous titanosilicate ETS-4: Experimental and theoretical breakthrough curves. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 32-40.	4.4	48
150	<i>Soil and Pollution.</i> , 2018, , 1-28.		48
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