

Mohamed Banni

List of Publications by Year in descending order

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104
papers

3,986
citations

87723

38
h-index

143772

57
g-index

104
all docs

104
docs citations

104
times ranked

4396
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro- and nano-plastics in edible fruit and vegetables. The first diet risks assessment for the general population. <i>Environmental Research</i> , 2020, 187, 109677.	3.7	312
2	Quantitative PCR analysis of two molluscan metallothionein genes unveils differential expression and regulation. <i>Gene</i> , 2005, 345, 259-270.	1.0	153
3	Mechanisms underlying the protective effect of zinc and selenium against cadmium-induced oxidative stress in zebrafish <i>Danio rerio</i> . <i>BioMetals</i> , 2011, 24, 981-992.	1.8	99
4	Transcriptional Response of the Mussel <i>Mytilus galloprovincialis</i> (Lam.) following Exposure to Heat Stress and Copper. <i>PLoS ONE</i> , 2013, 8, e66802.	1.1	91
5	Gene Expression Rhythms in the Mussel <i>Mytilus galloprovincialis</i> (Lam.) across an Annual Cycle. <i>PLoS ONE</i> , 2011, 6, e18904.	1.1	89
6	Influence of combined treatment with zinc and selenium on cadmium induced testicular pathophysiology in rat. <i>Food and Chemical Toxicology</i> , 2010, 48, 2759-2765.	1.8	88
7	First report on the presence of small microplastics (â‰‰ 3Â½m) in tissue of the commercial fish <i>Serranus scriba</i> (Linnaeus, 1758) from Tunisian coasts and associated cellular alterations. <i>Environmental Pollution</i> , 2020, 263, 114576.	3.7	87
8	Assessment of heavy metal contamination using real-time PCR analysis of mussel metallothioneinmt10andmt20expression: a validation along the Tunisian coast. <i>Biomarkers</i> , 2007, 12, 369-383.	0.9	85
9	Acute effects of benzo[a]pyrene on digestive gland enzymatic biomarkers and DNA damage on mussel <i>Mytilus galloprovincialis</i> . <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 842-848.	2.9	84
10	Uptake, tissue distribution and toxicological effects of environmental microplastics in early juvenile fish <i>Dicentrarchus labrax</i> . <i>Journal of Hazardous Materials</i> , 2021, 403, 124055.	6.5	84
11	Effects of malathion and cadmium on acetylcholinesterase activity and metallothionein levels in the fish <i>Seriola dumerilli</i> . <i>Fish Physiology and Biochemistry</i> , 2006, 32, 93-98.	0.9	83
12	Interactions of a pesticide/heavy metal mixture in marine bivalves: a transcriptomic assessment. <i>BMC Genomics</i> , 2011, 12, 195.	1.2	83
13	Monitoring pollution in Tunisian coasts: application of a classification scale based on biochemical markers. <i>Biomarkers</i> , 2005, 10, 105-116.	0.9	71
14	Abundance and distribution of small microplastics (â‰‰ 3Â½m) in sediments and seaworms from the Southern Mediterranean coasts and characterisation of their potential harmful effects.. <i>Environmental Pollution</i> , 2020, 263, 114634.	3.7	70
15	Metallothionein Gene Expression in Liver of Rats Exposed to Cadmium and Supplemented with Zinc and Selenium. <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 513-519.	2.1	69
16	Effects of thermal stress and nickel exposure on biomarkers responses in <i>Mytilus galloprovincialis</i> (Lam). <i>Marine Environmental Research</i> , 2014, 94, 65-71.	1.1	69
17	Uptake and biochemical responses of mussels <i>Mytilus galloprovincialis</i> exposed to sublethal nickel concentrations. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1712-1719.	2.9	63
18	Characterisation of lead-induced stress molecular biomarkers in <i>Medicago sativa</i> plants. <i>Environmental and Experimental Botany</i> , 2016, 123, 1-12.	2.0	63

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19	Combined effects of n-TiO ₂ and 2,3,7,8-TCDD in <i>Mytilus galloprovincialis</i> digestive gland: A transcriptomic and immunohistochemical study. <i>Environmental Research</i> , 2016, 145, 135-144.	3.7	57
20	Gene expression patterns and related enzymatic activities of detoxification and oxidative stress systems in zebrafish larvae exposed to the 2,4-dichlorophenoxyacetic acid herbicide. <i>Chemosphere</i> , 2019, 224, 289-297.	4.2	57
21	Oxidative DNA damage levels and catalase activity in the clam <i>Ruditapes decussatus</i> as pollution biomarkers of Tunisian marine environment. <i>Environmental Monitoring and Assessment</i> , 2007, 124, 195-200.	1.3	55
22	Involvement of selenoprotein P and GPx4 gene expression in cadmium-induced testicular pathophysiology in rat. <i>Chemico-Biological Interactions</i> , 2010, 188, 94-101.	1.7	53
23	Assessing the impact of Benzo[a]pyrene on Marine Mussels: Application of a novel targeted low density microarray complementing classical biomarker responses. <i>PLoS ONE</i> , 2017, 12, e0178460.	1.1	53
24	Transcriptional expression levels and biochemical markers of oxidative stress in the earthworm <i>Eisenia andrei</i> after exposure to 2,4-dichlorophenoxyacetic acid (2,4-D). <i>Ecotoxicology and Environmental Safety</i> , 2015, 122, 76-82.	2.9	50
25	Assessing the presence of microplastic particles in Tunisian agriculture soils and their potential toxicity effects using <i>Eisenia andrei</i> as bioindicator. <i>Science of the Total Environment</i> , 2021, 796, 148959.	3.9	50
26	The Organophosphate Chlorpyrifos Interferes with the Responses to 17 β -Estradiol in the Digestive Gland of the Marine Mussel <i>Mytilus galloprovincialis</i> . <i>PLoS ONE</i> , 2011, 6, e19803.	1.1	49
27	Transcriptional expression levels and biochemical markers of oxidative stress in <i>Mytilus galloprovincialis</i> exposed to nickel and heat stress. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 160, 23-29.	1.3	48
28	Metallothionein and metal levels in liver, gills and kidney of <i>Sparus aurata</i> exposed to sublethal doses of cadmium and copper. <i>Fish Physiology and Biochemistry</i> , 2010, 36, 101-107.	0.9	47
29	Effects of increasing temperatures on biomarker responses and accumulation of hazardous substances in rope mussels (<i>Mytilus galloprovincialis</i>) from Bizerte lagoon. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6108-6123.	2.7	47
30	Acute effects of cadmium on liver phase I and phase II enzymes and metallothionein accumulation on sea bream <i>Sparus aurata</i> . <i>Fish Physiology and Biochemistry</i> , 2008, 34, 201-207.	0.9	45
31	Acute effects of benzo[a]pyrene on liver phase I and II enzymes, and DNA damage on sea bream <i>Sparus aurata</i> . <i>Fish Physiology and Biochemistry</i> , 2009, 35, 293-299.	0.9	45
32	Evaluation of involvement of testicular metallothionein gene expression in the protective effect of zinc against cadmium-induced testicular pathophysiology in rat. <i>Reproductive Toxicology</i> , 2010, 29, 339-345.	1.3	45
33	Physiological, biochemical and transcriptomic responses of <i>Medicago sativa</i> to nickel exposure. <i>Chemosphere</i> , 2020, 249, 126121.	4.2	44
34	Increased Temperatures Affect Oxidative Stress Markers and Detoxification Response to Benzo[a]Pyrene Exposure in Mussel <i>Mytilus galloprovincialis</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 63, 534-543.	2.1	43
35	Cadmium-induced ovarian pathophysiology is mediated by change in gene expression pattern of zinc transporters in zebrafish (<i>Danio rerio</i>). <i>Chemico-Biological Interactions</i> , 2011, 193, 172-179.	1.7	42
36	Comparative study of the bioaccumulation and elimination of trace metals (Cd, Pb, Zn, Mn and Fe) in the digestive gland, gills and muscle of bivalve <i>Pinna nobilis</i> during a field transplant experiment. <i>Journal of Trace Elements in Medicine and Biology</i> , 2014, 28, 212-217.	1.5	42

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37	Mixture toxicity assessment of cadmium and benzo[a]pyrene in the sea worm <i>Hediste diversicolor</i> . <i>Chemosphere</i> , 2009, 77, 902-906.	4.2	41
38	Multimarker approach analysis in common carp <i>Cyprinus carpio</i> sampled from three freshwater sites. <i>Environmental Monitoring and Assessment</i> , 2010, 168, 285-298.	1.3	41
39	Evaluation of enzymatic biomarkers and lipoperoxidation level in <i>Hediste diversicolor</i> exposed to copper and benzo[a]pyrene. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 1893-1898.	2.9	40
40	Metallothionein induction by Cu, Cd and Hg in <i>Dicentrarchus labrax</i> liver: Assessment by RP-HPLC with fluorescence detection and spectrophotometry. <i>Marine Environmental Research</i> , 2008, 65, 358-363.	1.1	39
41	Biochemical Characterization and Quantitative Gene Expression Analysis of the Multi-Stress Inducible Metallothionein from <i>Tetrahymena thermophila</i> . <i>Protist</i> , 2004, 155, 157-168.	0.6	37
42	Monitoring pollution in Tunisian coasts using a scale of classification based on biochemical markers in worms <i>Nereis (Hediste) diversicolor</i> . <i>Environmental Monitoring and Assessment</i> , 2010, 164, 691-700.	1.3	37
43	Role of mTOR in autophagic and lysosomal reactions to environmental stressors in molluscs. <i>Aquatic Toxicology</i> , 2018, 195, 114-128.	1.9	37
44	Polymetallic pollution from abandoned mines in Mediterranean regions: a multidisciplinary approach to environmental risks. <i>Regional Environmental Change</i> , 2018, 18, 677-692.	1.4	37
45	Biochemical effects in crabs (<i>Carcinus maenas</i>) and contamination levels in the Bizerta Lagoon: an integrated approach in biomonitoring of marine complex pollution. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2616-2631.	2.7	36
46	Biochemical responses and metals levels in <i>Ruditapes decussatus</i> after exposure to treated municipal effluents. <i>Ecotoxicology and Environmental Safety</i> , 2012, 82, 40-46.	2.9	35
47	Seasonal variation of oxidative stress biomarkers in clams <i>Ruditapes decussatus</i> sampled from Tunisian coastal areas. <i>Environmental Monitoring and Assessment</i> , 2009, 155, 119-128.	1.3	34
48	Use of earthworms <i>Eisenia andrei</i> on the bioremediation of contaminated area in north of Tunisia and microbial soil enzymes as bioindicator of change on heavy metals speciation. <i>Journal of Soils and Sediments</i> , 2019, 19, 296-309.	1.5	34
49	Uptake, accumulation and associated cellular alterations of environmental samples of microplastics in the seaworm <i>Hediste diversicolor</i> . <i>Journal of Hazardous Materials</i> , 2021, 406, 124287.	6.5	34
50	Early and efficient induction of antioxidant defense system in <i>Mytilus galloprovincialis</i> embryos exposed to metals and heat stress. <i>Ecotoxicology and Environmental Safety</i> , 2017, 138, 105-112.	2.9	33
51	High sensitivity of embryo-larval stage of the Mediterranean mussel, <i>Mytilus galloprovincialis</i> to metal pollution in combination with temperature increase. <i>Marine Environmental Research</i> , 2016, 122, 59-66.	1.1	31
52	Microplastics in fillets of Mediterranean seafood. A risk assessment study. <i>Environmental Research</i> , 2022, 204, 112247.	3.7	31
53	2,4-Dichlorophenoxyacetic acid herbicide effects on zebrafish larvae: development, neurotransmission and behavior as sensitive endpoints. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3686-3696.	2.7	30
54	Multiple biomarkers of pollution effects in <i>Solea solea</i> fish on the Tunisia coastline. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3812-3821.	2.7	28

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55	Biomarker responses of <i>Eisenia andrei</i> to a polymetallic gradient near a lead mining site in North Tunisia. <i>Environmental Pollution</i> , 2016, 218, 530-541.	3.7	28
56	Impact of environmental microplastics alone and mixed with benzo[a]pyrene on cellular and molecular responses of <i>Mytilus galloprovincialis</i> . <i>Journal of Hazardous Materials</i> , 2022, 435, 128952.	6.5	28
57	Mixture Toxicity Assessment of Nickel and Chlorpyrifos in the Sea Bass <i>Dicentrarchus labrax</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2011, 60, 124-131.	2.1	27
58	Interactive effects of environmental microplastics and 2,4-dichlorophenoxyacetic acid (2,4-D) on the earthworm <i>Eisenia andrei</i> . <i>Journal of Hazardous Materials</i> , 2022, 424, 127578.	6.5	27
59	Exposure to microplastics leads to a defective ovarian function and change in cytoskeleton protein expression in rat. <i>Environmental Science and Pollution Research</i> , 2022, 29, 34594-34606.	2.7	27
60	Cholinesterase activity as biomarker of neurotoxicity: utility in the assessment of aquatic environment contamination. <i>Journal of Integrated Coastal Zone Management</i> , 2013, 13, 525-537.	0.2	26
61	Mode of action of Cr(VI) in immunocytes of earthworms: Implications for animal health. <i>Ecotoxicology and Environmental Safety</i> , 2017, 138, 298-308.	2.9	25
62	Impact of heavy metal contamination on oxidative stress of <i>Eisenia andrei</i> and bacterial community structure in Tunisian mine soil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18083-18095.	2.7	25
63	Autophagic event and metabolomic disorders unveil cellular toxicity of environmental microplastics on marine polychaete <i>Hediste diversicolor</i> . <i>Environmental Pollution</i> , 2022, 302, 119106.	3.7	25
64	Expression analysis of the molluscan p53 protein family mRNA in mussels (<i>Mytilus</i> spp.) exposed to organic contaminants. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2009, 149, 414-418.	1.3	24
65	Changes of the mRNA Expression Pattern of Zn Transporters: a Probable Mechanism for Cadmium Retention and Zinc Redistribution in the Suckling Rat Tissues. <i>Biological Trace Element Research</i> , 2015, 165, 173-182.	1.9	24
66	Use of oxidative stress biomarkers in <i>Carcinus maenas</i> to assess littoral zone contamination in Tunisia. <i>Aquatic Biology</i> , 2011, 14, 87-98.	0.5	24
67	Melatonin protects bone against cadmium-induced toxicity via activation of Wnt/ β -catenin signaling pathway. <i>Toxicology Mechanisms and Methods</i> , 2020, 30, 237-245.	1.3	23
68	Metabolomic disorders unveil hepatotoxicity of environmental microplastics in wild fish <i>Serranus scriba</i> (Linnaeus 1758). <i>Science of the Total Environment</i> , 2022, 838, 155872.	3.9	22
69	Metals bioaccumulation and histopathological biomarkers in <i>Carcinus maenas</i> crab from Bizerta lagoon, Tunisia. <i>Environmental Science and Pollution Research</i> , 2014, 21, 4343-4357.	2.7	21
70	Molecular and Cellular Effects Induced in <i>Mytilus galloprovincialis</i> Treated with Oxytetracycline at Different Temperatures. <i>PLoS ONE</i> , 2015, 10, e0128468.	1.1	21
71	Acute effects of chlorpyrifos-ethyl and secondary treated effluents on acetylcholinesterase and butyrylcholinesterase activities in <i>Carcinus maenas</i> . <i>Journal of Environmental Sciences</i> , 2009, 21, 1467-1472.	3.2	20
72	Biochemical responses in seabream (<i>Sparus aurata</i>) caged in-field or exposed to benzo(a)pyrene and paraquat. Characterization of glutathione S-transferases. <i>Ecotoxicology and Environmental Safety</i> , 2013, 88, 169-177.	2.9	20

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73	Biochemical and proteomic characterisation of haemolymph serum reveals the origin of the alkali-labile phosphate (ALP) in mussel (<i>Mytilus galloprovincialis</i>). <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2014, 11, 29-36.	0.4	20
74	Disruption of the zinc metabolism in rat fetal brain after prenatal exposure to cadmium. <i>Chemico-Biological Interactions</i> , 2018, 286, 88-95.	1.7	19
75	Early-Life Exposure to Cadmium Triggers Distinct Zn-Dependent Protein Expression Patterns and Impairs Brain Development. <i>Biological Trace Element Research</i> , 2018, 184, 409-421.	1.9	18
76	Proteomic analysis in caged Mediterranean crab (<i>Carcinus maenas</i>) and chemical contaminant exposure in Tâ©boulba Harbour, Tunisia. <i>Ecotoxicology and Environmental Safety</i> , 2014, 100, 15-26.	2.9	17
77	Compared responses to copper and increased temperatures of hybrid and pure offspring of two mussel species. <i>Science of the Total Environment</i> , 2019, 685, 795-805.	3.9	16
78	Application of a new targeted low density microarray and conventional biomarkers to evaluate the health status of marine mussels: A field study in Sardinian coast, Italy. <i>Science of the Total Environment</i> , 2018, 628-629, 319-328.	3.9	15
79	Protective Effects of Dietary Garlic Powder Against Cadmium-induced Toxicity in Sea Bass Liver: a Chemical, Biochemical, and Transcriptomic Approach. <i>Biological Trace Element Research</i> , 2018, 183, 370-378.	1.9	14
80	Effects of fullerene C60 in blue mussels: Role of mTOR in autophagy related cellular/tissue alterations. <i>Chemosphere</i> , 2020, 246, 125707.	4.2	14
81	Moderate temperature elevation increase susceptibility of early-life stage of the Mediterranean mussel, <i>Mytilus galloprovincialis</i> to metal-induced genotoxicity. <i>Science of the Total Environment</i> , 2019, 663, 351-360.	3.9	14
82	Zinc accumulation patterns in four <i>Anthyllis vulneraria</i> subspecies supplemented with mineral nitrogen or grown in the presence of their symbiotic bacteria. <i>Plant and Soil</i> , 2013, 371, 423-434.	1.8	13
83	Bacterial community profiling of floating plastics from South Mediterranean sites: First evidence of effects on mussels as possible vehicles of transmission. <i>Journal of Hazardous Materials</i> , 2021, 411, 125079.	6.5	13
84	Involvement of Zn Depletion in Cd-Induced Toxicity on Prenatal Bone Formation in Rat. <i>Biological Trace Element Research</i> , 2017, 180, 70-80.	1.9	11
85	Antagonistic cytoprotective effects of C60 fullerene nanoparticles in simultaneous exposure to benzo[a]pyrene in a molluscan animal model. <i>Science of the Total Environment</i> , 2021, 755, 142355.	3.9	11
86	<i>Enterococcus faecalis</i> and <i>Vibrio harveyi</i> colonize low-density polyethylene and biodegradable plastics under marine conditions. <i>FEMS Microbiology Letters</i> , 2020, 367, .	0.7	10
87	Assessment of Changes on Rhizospheric Soil Microbial Biomass, Enzymes Activities and Bacterial Functional Diversity under Nickel Stress in Presence of Alfafa Plants. <i>Soil and Sediment Contamination</i> , 2020, 29, 823-843.	1.1	10
88	An integrated approach to determine interactive genotoxic and global gene expression effects of multiwalled carbon nanotubes (MWCNTs) and benzo[a]pyrene (BaP) on marine mussels: evidence of reverse â€Trojan Horseâ€™ effects. <i>Nanotoxicology</i> , 2019, 13, 1324-1343.	1.6	9
89	Assessment of heavy metal pollution transfer and human exposure risks from the consumption of chicken grown in mining-surrounding areas. <i>Environmental Science and Pollution Research</i> , 2022, 29, 5661-5673.	2.7	9
90	Ecotoxicity of trace elements to chicken <i>GALLUS gallus domesticus</i> exposed to a gradient of polymetallic-polluted sites.. <i>Environmental Pollution</i> , 2020, 265, 114831.	3.7	8

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91	Influence of nitrate fertilization on Cd uptake and oxidative stress parameters in alfalfa plants cultivated in presence of Cd. <i>Journal of Soil Science and Plant Nutrition</i> , 2014, , 0-0.	1.7	7
92	Using environmental proteomics to assess pollutant response of <i>Carcinus maenas</i> along the Tunisian coast. <i>Science of the Total Environment</i> , 2016, 541, 109-118.	3.9	7
93	Molecular mechanisms underlying the effects of temperature increase on <i>Mytilus</i> sp. and their hybrids at early larval stages. <i>Science of the Total Environment</i> , 2020, 708, 135200.	3.9	7
94	Natural distribution of pure and hybrid <i>Mytilus</i> sp. along the south Mediterranean and North-east Atlantic coasts and sensitivity of D-larvae stages to temperature increases and metal pollution. <i>Science of the Total Environment</i> , 2021, 756, 143675.	3.9	7
95	The Effect of Nickel Exposure on Oxidative Stress of <i>Vicia faba</i> Plants. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 108, 1074-1080.	1.3	6
96	Metal contamination and heat stress impair swimming behavior and acetylcholinesterase activity in embryo-larval stages of the Mediterranean mussel, <i>Mytilus galloprovincialis</i> . <i>Marine Environmental Research</i> , 2022, 179, 105677.	1.1	6
97	Impact of Intensive Farming on Soil Heavy Metal Accumulation and Biomarkers Responses of Earthworms <i>Eisenia andrei</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 105, 559-564.	1.3	5
98	Multifactorial Screening Reveals New Insight into Early Cadmium Exposure and Garlic Interactions in <i>Dicentrarchus labrax</i> . <i>Biological Trace Element Research</i> , 2021, 199, 4759-4771.	1.9	3
99	Effects of nickel on growth and the reproductive organs of <i>Vicia faba</i> plants. <i>Brazilian Journal of Biological Sciences</i> , 2020, 7, 305-317.	0.2	3
100	Assessing the effects of nickel on, e.g., <i>Medicago sativa</i> L. nodules using multidisciplinary approach. <i>Environmental Science and Pollution Research</i> , 2022, 29, 77386-77400.	2.7	3
101	First evidence on protective effect of exogenous melatonin supplementation against disruption of the estrogenic pathway in bone metabolism of killifish (<i>Aphanius fasciatus</i>). <i>Fish Physiology and Biochemistry</i> , 2020, 46, 747-757.	0.9	2
102	New insights into the possible multiple roles of histidine-rich glycoprotein in blue mussels. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 245, 110440.	0.7	2
103	Rhythms of gene expression in mussel <i>Mytilus galloprovincialis</i> during an annual cycle. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 154, S5.	0.8	0
104	Short Term Treated Wastewater Reuse Impact on Soil Microbial Biomass, Bacterial Functional Diversity and Enzymatic Activities in the Presence of Earthworms <i>Eisenia andrei</i> . <i>Advances in Science, Technology and Innovation</i> , 2018, , 301-303.	0.2	0