

Iqbal Ahmad

List of Publications by Year in descending order

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72
papers

4,585
citations

109264

35
h-index

98753

67
g-index

73
all docs

73
docs citations

73
times ranked

5665
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutathione and glutathione reductase: A boon in disguise for plant abiotic stress defense operations. <i>Plant Physiology and Biochemistry</i> , 2013, 70, 204-212.	2.8	404
2	Induction of hepatic antioxidants in freshwater catfish (<i>Channa punctatus</i> Bloch) is a biomarker of paper mill effluent exposure. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000, 1523, 37-48.	1.1	297
3	Lipids and proteins—major targets of oxidative modifications in abiotic stressed plants. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4099-4121.	2.7	252
4	Nanoscale materials and their use in water contaminants removal—a review. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1239-1260.	2.7	192
5	Effect of Endosulfan on Antioxidants of Freshwater Fish <i>Channa punctatus</i> Bloch: 1. Protection Against Lipid Peroxidation in Liver by Copper Preexposure. <i>Archives of Environmental Contamination and Toxicology</i> , 2001, 41, 345-352.	2.1	163
6	Oxidative stress and genotoxic effects in gill and kidney of <i>Anguilla anguilla</i> L. exposed to chromium with or without pre-exposure to 1 ² -naphthoflavone. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2006, 608, 16-28.	0.9	151
7	Jacks of metal/metalloid chelation trade in plants—An overview. <i>Frontiers in Plant Science</i> , 2015, 6, 192.	1.7	148
8	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.	2.7	147
9	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. <i>Frontiers in Plant Science</i> , 2015, 6, 210.	1.7	145
10	Silver nanoparticles in soil—plant systems. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	144
11	Pollutant-induced over-activation of phagocytes is concomitantly associated with peroxidative damage in fish tissues. <i>Aquatic Toxicology</i> , 2000, 49, 243-250.	1.9	139
12	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.	3.9	137
13	Contamination assessment of a coastal lagoon (Ria de Aveiro, Portugal) using defence and damage biochemical indicators in gill of <i>Liza aurata</i> — An integrated biomarker approach. <i>Environmental Pollution</i> , 2009, 157, 959-967.	3.7	135
14	Nanoscale copper in the soil—plant system — toxicity and underlying potential mechanisms. <i>Environmental Research</i> , 2015, 138, 306-325.	3.7	124
15	Enzymatic and nonenzymatic antioxidants as an adaptation to phagocyte-induced damage in <i>Anguilla anguilla</i> L. following in situ harbor water exposure. <i>Ecotoxicology and Environmental Safety</i> , 2004, 57, 290-302.	2.9	121
16	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. <i>Protoplasma</i> , 2014, 251, 1265-1283.	1.0	121
17	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.	1.7	111
18	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.	2.7	108

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19	<i>Anguilla anguilla</i> L. oxidative stress biomarkers responses to copper exposure with or without 1 ² -naphthoflavone pre-exposure. <i>Chemosphere</i> , 2005, 61, 267-275.	4.2	90
20	Protective effects of <i>Embllica officinalis</i> Gaertn. in cyclophosphamide-treated mice. <i>Human and Experimental Toxicology</i> , 2001, 20, 643-650.	1.1	85
21	Modulation of glutathione and its related enzymes in plants's responses to toxic metals and metalloids" A review. <i>Environmental and Experimental Botany</i> , 2011, 75, 307-307.	2.0	84
22	<i>Anguilla anguilla</i> L. oxidative stress biomarkers: An in situ study of freshwater wetland ecosystem (Pateira de Fermentelos, Portugal). <i>Chemosphere</i> , 2006, 65, 952-962.	4.2	83
23	Protective effect of <i>Cassia occidentalis</i> L. on cyclophosphamide-induced suppression of humoral immunity in mice. <i>Journal of Ethnopharmacology</i> , 2001, 75, 13-18.	2.0	73
24	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.	0.8	59
25	<i>Anguilla anguilla</i> L. antioxidants responses to in situ bleached kraft pulp mill effluent outlet exposure. <i>Environment International</i> , 2004, 30, 301-308.	4.8	58
26	Salt Marsh Halophyte Services to Metal"Metalloid Remediation: Assessment of the Processes and Underlying Mechanisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2038-2106.	6.6	58
27	Improving Growth and Productivity of Oleiferous Brassicas under Changing Environment: Significance of Nitrogen and Sulphur Nutrition, and Underlying Mechanisms. <i>Scientific World Journal</i> , The, 2012, 2012, 1-12.	0.8	53
28	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.	1.1	52
29	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.	1.9	51
30	Wild juvenile <i>Dicentrarchus labrax</i> L. liver antioxidant and damage responses at Aveiro Lagoon, Portugal. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 1861-1870.	2.9	44
31	DNA damage and lipid peroxidation vs. protection responses in the gill of <i>Dicentrarchus labrax</i> L. from a contaminated coastal lagoon (Ria de Aveiro, Portugal). <i>Science of the Total Environment</i> , 2008, 406, 298-307.	3.9	42
32	Impact of Seasonal Fluctuations on the Sediment-Mercury, its Accumulation and Partitioning in <i>Halimione portulacoides</i> and <i>Juncus maritimus</i> Collected from Ria de Aveiro Coastal Lagoon (Portugal). <i>Water, Air, and Soil Pollution</i> , 2011, 222, 1-15.	1.1	41
33	Remediation of mercury contaminated saltwater with functionalized silica coated magnetite nanoparticles. <i>Science of the Total Environment</i> , 2016, 557-558, 712-721.	3.9	38
34	Modulatory Effect of Copper on Nonenzymatic Antioxidants in Freshwater Fish <i>Channa punctatus</i> (Bloch.). <i>Biological Trace Element Research</i> , 2003, 93, 237-248.	1.9	36
35	Naphthalene-induced differential tissue damage association with circulating fish phagocyte induction. <i>Ecotoxicology and Environmental Safety</i> , 2003, 54, 7-15.	2.9	36
36	Evaluation of oxidative DNA lesions in plasma and nuclear abnormalities in erythrocytes of wild fish (<i>Liza aurata</i>) as an integrated approach to genotoxicity assessment. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 703, 83-89.	0.9	36

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37	Hepatic metallothionein concentrations in the golden grey mullet (<i>Liza aurata</i>) – Relationship with environmental metal concentrations in a metal-contaminated coastal system in Portugal. <i>Marine Environmental Research</i> , 2010, 69, 227-233.	1.1	32
38	Monitoring pollution of coastal lagoon using <i>Liza aurata</i> kidney oxidative stress and genetic endpoints: an integrated biomarker approach. <i>Ecotoxicology</i> , 2010, 19, 643-653.	1.1	30
39	Salt marsh macrophyte <i>Phragmites australis</i> strategies assessment for its dominance in mercury-contaminated coastal lagoon (Ria de Aveiro, Portugal). <i>Environmental Science and Pollution Research</i> , 2012, 19, 2879-2888.	2.7	25
40	<i>Eriophorum angustifolium</i> and <i>Lolium perenne</i> metabolic adaptations to metals- and metalloids-induced anomalies in the vicinity of a chemical industrial complex. <i>Environmental Science and Pollution Research</i> , 2013, 20, 568-581.	2.7	25
41	Antioxidant Responses Versus DNA Damage and Lipid Peroxidation in Golden Grey Mullet Liver: A Field Study at Ria de Aveiro (Portugal). <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 454-463.	2.1	23
42	Role of non-enzymatic antioxidants on the bivalves' adaptation to environmental mercury: Organ-specificities and age effect in <i>Scrobicularia plana</i> inhabiting a contaminated lagoon. <i>Environmental Pollution</i> , 2012, 163, 218-225.	3.7	23
43	Mercury contaminated systems under recovery can represent an increased risk to seafood human consumers – A paradox depicted in bivalves' body burdens. <i>Food Chemistry</i> , 2012, 133, 665-670.	4.2	21
44	Responses of European eel (<i>Anguilla anguilla</i> L.) circulating phagocytes to an in situ closed pulp mill effluent exposure and its association with organ-specific peroxidative damage. <i>Chemosphere</i> , 2006, 63, 794-801.	4.2	20
45	Immunosuppression in the infaunal bivalve <i>Scrobicularia plana</i> environmentally exposed to mercury and association with its accumulation. <i>Chemosphere</i> , 2011, 82, 1541-1546.	4.2	20
46	Potassium-induced alleviation of salinity stress in <i>Brassica campestris</i> L. <i>Open Life Sciences</i> , 2011, 6, 1054-1063.	0.6	20
47	Juvenile sea bass (<i>Dicentrarchus labrax</i> L.) DNA strand breaks and lipid peroxidation response following 17 β -estradiol two mode of exposures. <i>Environment International</i> , 2008, 34, 23-29.	4.8	19
48	Juvenile sea bass (<i>Dicentrarchus labrax</i> L.) enzymatic and non-enzymatic antioxidant responses following 17 β -estradiol exposure. <i>Ecotoxicology</i> , 2009, 18, 974-982.	1.1	19
49	<i>Halimione portulacoides</i> (L.) physiological/biochemical characterization for its adaptive responses to environmental mercury exposure. <i>Environmental Research</i> , 2014, 131, 39-49.	3.7	18
50	Responses of Circulating Fish Phagocytes to Paper Mill Effluent Exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1998, 61, 746-753.	1.3	17
51	Paper and Pulp Mill Effluent-Induced Immunotoxicity in Freshwater Fish <i>Channa punctatus</i> (Bloch). <i>Archives of Environmental Contamination and Toxicology</i> , 2001, 40, 271-276.	2.1	17
52	Modulation of glutathione and its dependent enzymes in gill cells of <i>Anguilla anguilla</i> exposed to silica coated iron oxide nanoparticles with or without mercury co-exposure under in vitro condition. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 162, 7-14.	1.3	17
53	Assessment of cytotoxicity and oxidative stress induced by titanium oxide nanoparticles on Chinook salmon cells. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15571-15578.	2.7	15
54	Golden grey mullet and sea bass oxidative DNA damage and clastogenic/aneugenic responses in a contaminated coastal lagoon. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1907-1913.	2.9	14

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55	Plant-beneficial elements status assessment in soil-plant system in the vicinity of a chemical industry complex: shedding light on forage grass safety issues. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2239-2246.	2.7	14
56	Interference of the co-exposure of mercury with silica-coated iron oxide nanoparticles can modulate genotoxicity induced by their individual exposures—a paradox depicted in fish under in vitro conditions. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3687-3696.	2.7	13
57	Mercury-Induced Chromosomal Damage in Wild Fish (<i>Dicentrarchus labrax</i> L.) Reflecting Aquatic Contamination in Contrasting Seasons. <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 63, 554-562.	2.1	12
58	Brain glutathione redox system significance for the control of silica-coated magnetite nanoparticles with or without mercury co-exposures mediated oxidative stress in European eel (<i>Anguilla anguilla</i>). <i>Trends in Analytical Chemistry</i> , 2015, 64, 136-148.	5.8	9
59	Oxidative stress status, antioxidant metabolism and polypeptide patterns in <i>Juncus maritimus</i> shoots exhibiting differential mercury burdens in Ria de Aveiro coastal lagoon (Portugal). <i>Environmental Science and Pollution Research</i> , 2014, 21, 6652-6661.	2.7	10
60	<i>Juncus maritimus</i> root biochemical assessment for its mercury stabilization potential in Ria de Aveiro coastal lagoon (Portugal). <i>Environmental Science and Pollution Research</i> , 2015, 22, 2231-2238.	2.7	10
61	Evaluation of zinc accumulation, allocation, and tolerance in <i>Zea mays</i> L. seedlings: implication for zinc phytoextraction. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15443-15448.	2.7	9
62	An international proficiency test as a tool to evaluate mercury determination in environmental matrices. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 64, 136-148.	5.8	9
63	Seasonal <i>Liza aurata</i> tissue-specific DNA integrity in a multi-contaminated coastal lagoon (Ria de Aveiro). <i>Environmental Science and Pollution Research</i> , 2015, 22, 15443-15448.	2.7	9
64	Spatial variation of potentially toxic elements in different grain size fractions of marine sediments from Gulf of Mannar, India. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7581-7589.	1.3	8
65	Phenological development stages variation versus mercury tolerance, accumulation, and allocation in salt marsh macrophytes <i>Triglochin maritima</i> and <i>Scirpus maritimus</i> prevalent in Ria de Aveiro coastal lagoon (Portugal). <i>Environmental Science and Pollution Research</i> , 2013, 20, 3910-3922.	2.7	8
66	Protection of growth and photosynthesis of <i>Brassica juncea</i> genotype with dual type sulfur transport system against sulfur deprivation by coordinate changes in the activities of sulfur metabolism enzymes and cysteine and glutathione production. <i>Russian Journal of Plant Physiology</i> , 2011, 58, 892-898.	0.5	6
67	Seasonal Trend of Potential Toxic Elements in Seawater and Sediments from Tuticorin Coast. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	6
68	Modulatory role of copper on 12-naphthoflavone-induced DNA damage in European eel (<i>Anguilla anguilla</i>). <i>Trends in Analytical Chemistry</i> , 2015, 64, 136-148.	5.8	9
69	Rescheduling the process of nanoparticle removal used for water mercury remediation can increase the risk to aquatic organism: evidence of innate immune functions modulation in European eel (<i>Anguilla anguilla</i> L.). <i>Environmental Science and Pollution Research</i> , 2015, 22, 18574-18589.	2.7	5
70	Mercury's mitochondrial targeting with increasing age in <i>Scrobicularia plana</i> inhabiting a contaminated lagoon: Damage-protection dichotomy and organ specificities. <i>Chemosphere</i> , 2013, 92, 1231-1237.	4.2	4
71	Lipid peroxidation and its control in <i>Anguilla anguilla</i> hepatocytes under silica-coated iron oxide nanoparticles (with or without mercury) exposure. <i>Environmental Science and Pollution Research</i> , 2015, 22, 9617-9625.	2.7	4
72	Morphological, compositional and ultrastructural changes in the <i>Scrobicularia plana</i> shell in response to environmental mercury—An indelible fingerprint of metal exposure?. <i>Chemosphere</i> , 2013, 90, 2697-2704.	4.2	1