

Iqbal Ahmad

List of Publications by Year in descending order

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72
papers

4,585
citations

109321

35
h-index

98798

67
g-index

73
all docs

73
docs citations

73
times ranked

5665
citing authors

#	ARTICLE	IF	CITATIONS
1	Remediation of mercury contaminated saltwater with functionalized silica coated magnetite nanoparticles. <i>Science of the Total Environment</i> , 2016, 557-558, 712-721.	8.0	38
2	Jacks of metal/metalloid chelation trade in plants—An overview. <i>Frontiers in Plant Science</i> , 2015, 6, 192.	3.6	148
3	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. <i>Frontiers in Plant Science</i> , 2015, 6, 210.	3.6	145
4	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.	5.3	15
5	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.	5.3	9
6	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.	5.3	4
7	Nanoscale copper in the soil—plant system— toxicity and underlying potential mechanisms. <i>Environmental Research</i> , 2015, 138, 306-325.	7.5	124
8	<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.	5.3	10
9	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.	5.3	14
10	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.	5.3	5
11	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
12	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
13	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.	11.4	9
14	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.	5.3	13
15	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
16	<i>Halimione portulacoides</i> (L.) physiological/biochemical characterization for its adaptive responses to environmental mercury exposure. <i>Environmental Research</i> , 2014, 131, 39-49.	7.5	18
17	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.	5.3	10
18	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

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19	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
20	Seasonal Trend of Potential Toxic Elements in Seawater and Sediments from Tuticorin Coast. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	6
21	Salt Marsh Halophyte Services to Metalloids Remediation: Assessment of the Processes and Underlying Mechanisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2038-2106.	12.8	58
22	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>Tj ETQq0 0 0 rgBB/Overlook 10 Tf 50</i>		
23	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.	2.6	17
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.	1.9	59
25	Silver nanoparticles in soil-plant systems. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	144
26	Glutathione and glutathione reductase: A boon in disguise for plant abiotic stress defense operations. <i>Plant Physiology and Biochemistry</i> , 2013, 70, 204-212.	5.8	404
27	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.	2.7	8
28	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.	5.3	8
29	<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.	5.3	25
30	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.	8.2	4
31	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.	8.2	1
32	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
33	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
34	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.	5.3	25
35	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.	4.1	12
36	Improving Growth and Productivity of Oleiferous Brassicas under Changing Environment: Significance of Nitrogen and Sulphur Nutrition, and Underlying Mechanisms. <i>Scientific World Journal, The</i> , 2012, 2012, 1-12.	2.1	53

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37	Mercury contaminated systems under recovery can represent an increased risk to seafood human consumers â€” A paradox depicted in bivalvesâ€™ body burdens. <i>Food Chemistry</i> , 2012, 133, 665-670.	8.2	21
38	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.	7.5	23
39	Lipid peroxidation vs. antioxidant modulation in the bivalve <i>Scrobicularia plana</i> in response to environmental mercuryâ€™ Organ specificities and age effect. <i>Aquatic Toxicology</i> , 2011, 103, 150-158.	4.0	51
40	Modulation of glutathione and its related enzymes in plantsâ€™ responses to toxic metals and metalloidsâ€™ A review. <i>Environmental and Experimental Botany</i> , 2011, 75, 307-307.	4.2	84
41	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.	8.2	20
42	Potassium-induced alleviation of salinity stress in <i>Brassica campestris</i> L.. <i>Open Life Sciences</i> , 2011, 6, 1054-1063.	1.4	20
43	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.	1.1	6
44	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.	2.4	41
45	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.	4.1	23
46	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.	2.4	30
47	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
48	Seasonal <i>Liza aurata</i> tissue-specific DNA integrity in a multi-contaminated coastal lagoon (Ria de Aveiro) using a multi-targeted approach. <i>Environmental Pollution</i> , 2010, 150, 107-115.	5.0	10
49	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.	1.7	36
50	Hepatic metallothionein concentrations in the golden grey mullet (<i>Liza aurata</i>) â€” Relationship with environmental metal concentrations in a metal-contaminated coastal system in Portugal. <i>Marine Environmental Research</i> , 2010, 69, 227-233.	2.5	32
51	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.	6.0	14
52	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.	2.4	19
53	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.	6.0	44
54	Contamination assessment of a coastal lagoon (Ria de Aveiro, Portugal) using defence and damage biochemical indicators in gill of <i>Liza aurata</i> â€” An integrated biomarker approach. <i>Environmental Pollution</i> , 2009, 157, 959-967.	7.5	135

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55	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.	8.0	42
56	Modulatory role of copper on β -naphthoflavone-induced DNA damage in European eel (<i>Anguilla</i>)	6.0	5
57	Juvenile sea bass (<i>Dicentrarchus labrax</i> L.) DNA strand breaks and lipid peroxidation response following 17β -estradiol two mode of exposures. <i>Environment International</i> , 2008, 34, 23-29.	10.0	19
58	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.	8.2	20
59	<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.	8.2	83
60	Oxidative stress and genotoxic effects in gill and kidney of <i>Anguilla anguilla</i> L. exposed to chromium with or without pre-exposure to β -naphthoflavone. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2006, 608, 16-28.	1.7	151
61	<i>Anguilla anguilla</i> L. oxidative stress biomarkers responses to copper exposure with or without β -naphthoflavone pre-exposure. <i>Chemosphere</i> , 2005, 61, 267-275.	8.2	90
62	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.	6.0	121
63	<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.	10.0	58
64	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.	3.5	36
65	Naphthalene-induced differential tissue damage association with circulating fish phagocyte induction. <i>Ecotoxicology and Environmental Safety</i> , 2003, 54, 7-15.	6.0	36
66	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.	4.1	73
67	Protective effects of <i>Embllica officinalis</i> Gaertn. in cyclophosphamide-treated mice. <i>Human and Experimental Toxicology</i> , 2001, 20, 643-650.	2.2	85
68	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.	4.1	17
69	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.	4.1	163
70	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.	2.4	297
71	Pollutant-induced over-activation of phagocytes is concomitantly associated with peroxidative damage in fish tissues. <i>Aquatic Toxicology</i> , 2000, 49, 243-250.	4.0	139
72	Responses of Circulating Fish Phagocytes to Paper Mill Effluent Exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1998, 61, 746-753.	2.7	17