

Iqbal Ahmad

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

3,718
citations

32
h-index

60
g-index

73
ext. papers

4,106
ext. citations

5.7
avg, IF

4.98
L-index

#	Paper	IF	Citations
73	Glutathione and glutathione reductase: a boon in disguise for plant abiotic stress defense operations. <i>Plant Physiology and Biochemistry</i> , 2013 , 70, 204-12	5.4	288
72	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	4	264
71	Lipids and proteins--major targets of oxidative modifications in abiotic stressed plants. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 4099-121	5.1	181
70	Nanoscale materials and their use in water contaminants removal-a review. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 1239-60	5.1	168
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, 345-52	3.2	140
68	Oxidative stress and genotoxic effects in gill and kidney of <i>Anguilla anguilla</i> L. exposed to chromium with or without pre-exposure to beta-naphthoflavone. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2006 , 608, 16-28	3	134
67	Pollutant-induced over-activation of phagocytes is concomitantly associated with peroxidative damage in fish tissues. <i>Aquatic Toxicology</i> , 2000 , 49, 243-250	5.1	127
66	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, 959-67	9.3	124
65	Silver nanoparticles in soil-plant systems. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	121
64	Jacks of metal/metalloid chelation trade in plants-an overview. <i>Frontiers in Plant Science</i> , 2015 , 6, 192	6.2	110
63	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	7	108
62	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, 834-41	10.2	105
61	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, 2133-49	5.1	103
60	Nanoscale copper in the soil-plant system - toxicity and underlying potential mechanisms. <i>Environmental Research</i> , 2015 , 138, 306-25	7.9	102
59	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. <i>Protoplasma</i> , 2014 , 251, 1265-83	3.4	96
58	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. <i>Frontiers in Plant Science</i> , 2015 , 6, 210	6.2	92
57	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	6.2	87

56	Too much is bad--an appraisal of phytotoxicity of elevated plant-beneficial heavy metal ions. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 3361-82	5.1	85
55	<i>Anguilla anguilla</i> L. oxidative stress biomarkers responses to copper exposure with or without beta-naphthoflavone pre-exposure. <i>Chemosphere</i> , 2005 , 61, 267-75	8.4	81
54	<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, 952-62	8.4	70
53	Protective effects of <i>Emblca officinalis</i> Gaertn. in cyclophosphamide-treated mice. <i>Human and Experimental Toxicology</i> , 2001 , 20, 643-50	3.4	62
52	Protective effect of <i>Cassia occidentalis</i> L. on cyclophosphamide-induced suppression of humoral immunity in mice. <i>Journal of Ethnopharmacology</i> , 2001 , 75, 13-8	5	61
51	<i>Anguilla anguilla</i> L. antioxidants responses to in situ bleached kraft pulp mill effluent outlet exposure. <i>Environment International</i> , 2004 , 30, 301-8	12.9	53
50	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	2.3	51
49	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, 150-8	5.1	48
48	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	11.1	45
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, 1034-45	2.9	44
46	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	5.9	43
45	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	10.2	38
44	Wild juvenile <i>Dicentrarchus labrax</i> L. liver antioxidant and damage responses at Aveiro Lagoon, Portugal. <i>Ecotoxicology and Environmental Safety</i> , 2009 , 72, 1861-70	7	37
43	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	2.6	36
42	Modulatory effect of copper on nonenzymatic antioxidants in freshwater fish <i>Channa punctatus</i> (Bloch.). <i>Biological Trace Element Research</i> , 2003 , 93, 237-48	4.5	33
41	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, 657808	2.2	32
40	Naphthalene-induced differential tissue damage association with circulating fish phagocyte induction. <i>Ecotoxicology and Environmental Safety</i> , 2003 , 54, 7-15	7	32
39	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, 227-33	3.3	30

38	Remediation of mercury contaminated saltwater with functionalized silica coated magnetite nanoparticles. <i>Science of the Total Environment</i> , 2016 , 557-558, 712-21	10.2	29
37	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, 83-9	3	28
36	<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, 568-81	5.1	23
35	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, 643-53	2.9	23
34	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, 218-25	9.3	21
33	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> , 2011 , 19, 2879-88	5.1	21
32	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	8.5	21
31	Immunosuppression in the infaunal bivalve <i>Scrobicularia plana</i> environmentally exposed to mercury and association with its accumulation. <i>Chemosphere</i> , 2011 , 82, 1541-6	8.4	19
30	Juvenile sea bass (<i>Dicentrarchus labrax</i> L.) DNA strand breaks and lipid peroxidation response following 17beta-estradiol two mode of exposures. <i>Environment International</i> , 2008 , 34, 23-9	12.9	18
29	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	3.2	17
28	Juvenile sea bass (<i>Dicentrarchus labrax</i> L.) enzymatic and non-enzymatic antioxidant responses following 17beta-estradiol exposure. <i>Ecotoxicology</i> , 2009 , 18, 974-82	2.9	17
27	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, 454-63	3.2	17
26	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	8.4	17
25	<i>Halimione portulacoides</i> (L.) physiological/biochemical characterization for its adaptive responses to environmental mercury exposure. <i>Environmental Research</i> , 2014 , 131, 39-49	7.9	16
24	Potassium-induced alleviation of salinity stress in <i>Brassica campestris</i> L.. <i>Open Life Sciences</i> , 2011 , 6, 1054-1063	14	14
23	Responses of circulating fish phagocytes to paper mill effluent exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1998 , 61, 746-53	2.7	14
22	Assessment of cytotoxicity and oxidative stress induced by titanium oxide nanoparticles on Chinook salmon cells. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 15571-8	5.1	13
21	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, 3687-96	5.1	12

20	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> L.). <i>Environmental Science and Pollution Research</i> , 2014 , 21, 7746-56	5.1	12
19	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, 1907-13	7	12
18	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, 271-6	3.2	12
17	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, 554-62	3.2	11
16	<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, 2231-8	5.1	10
15	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, 2239-46	5.1	9
14	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	14.6	9
13	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, 6652-61	5.1	8
12	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, 15443-8	5.1	8
11	Seasonal <i>Liza aurata</i> tissue-specific DNA integrity in a multi-contaminated coastal lagoon (Ria de Aveiro, Portugal). <i>Marine Pollution Bulletin</i> , 2010 , 60, 1755-61	6.7	8
10	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, 3910-22	5.1	7
9	Understanding Stress-Responsive Mechanisms in Plants: An Overview of Transcriptomics and Proteomics Approaches 2012 , 337-355		7
8	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, 7581-9	3.1	6
7	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> , 2014 , 58, 889-898	1.6	6
6	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, 18574-89	5.1	5
5	Seasonal Trend of Potential Toxic Elements in Seawater and Sediments from Tuticorin Coast. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	4
4	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, 1231-7	8.4	4
3	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, 9617-25	5.1	4

2	Modulatory role of copper on Baphthoflavone-induced DNA damage in European eel (<i>Anguilla anguilla</i> L.). <i>Ecotoxicology and Environmental Safety</i> , 2008 , 71, 806-12	7	4
1	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, 2697-704	8.4	1