Iqbal Ahmad

List of Publications by Year
in descending order

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	Glutathione and glutathione reductase: A boon in disguise for plant abiotic stress defense operations. Plant Physiology and Biochemistry, 2013, 70, 204-212.	5.8	404
2	Induction of hepatic antioxidants in freshwater catfish (Channa punctatus Bloch) is a biomarker of paper mill effluent exposure. Biochimica Et Biophysica Acta - General Subjects, 2000, 1523, 37-48.	2.4	297
3	Lipids and proteinsâ€"major targets of oxidative modifications in abiotic stressed plants. Environmental Science and Pollution Research, 2015, 22, 4099-4121.	5.3	252
4	Nanoscale materials and their use in water contaminants removalâ€"a review. Environmental Science and Pollution Research, 2013, 20, 1239-1260.	5.3	192
5	Effect of Endosulfan on Antioxidants of Freshwater Fish Channa punctatus Bloch: 1. Protection Against Lipid Peroxidation in Liver by Copper Preexposure. Archives of Environmental Contamination and Toxicology, 2001, 41, 345-352.	4.1	163
6	Oxidative stress and genotoxic effects in gill and kidney of Anguilla anguilla L. exposed to chromium with or without pre-exposure to Î²-naphthoflavone. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2006, 608, 16-28.	1.7	151
7	Jacks of metal/metalloid chelation trade in plantsÃ¢â‚¬â€an overview. Frontiers in Plant Science, 2015, 6, 192.	3.6	148
8	Glutathione and its dependent enzymesâ€™ modulatory responses to toxic metals and metalloids in fishâ€"a review. Environmental Science and Pollution Research, 2013, 20, 2133-2149.	5.3	147
9	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. Frontiers in Plant Science, 2015, 6, 210.	3.6	145
10	Silver nanoparticles in soilâ€“plant systems. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	144
11	Pollutant-induced over-activation of phagocytes is concomitantly associated with peroxidative damage in fish tissues. Aquatic Toxicology, 2000, 49, 243-250.	4.0	139
12	Single-bilayer graphene oxide sheet impacts and underlying potential mechanism assessment in germinating faba bean (Vicia faba L.). Science of the Total Environment, 2014, 472, 834-841.	8.0	137
13	Contamination assessment of a coastal lagoon (Ria de Aveiro, Portugal) using defence and damage biochemical indicators in gill of Liza aurata â€“ An integrated biomarker approach. Environmental Pollution, 2009, 157, 959-967.	7.5	135
14	Nanoscale copper in the soilâ€“plant system â€“ toxicity and underlying potential mechanisms. Environmental Research, 2015, 138, 306-325.	7.5	124
15	Enzymatic and nonenzymatic antioxidants as an adaptation to phagocyte-induced damage in Anguilla anguilla L. following in situ harbor water exposure. Ecotoxicology and Environmental Safety, 2004, 57, 290-302.	6.0	121
16	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. Protoplasma, 2014, 251, 1265-1283.	2.1	121
17	Glutathione and proline can coordinately make plants withstand the joint attack of metal(loid) and salinity stresses. Frontiers in Plant Science, 2014, 5, 662.	3.6	111
18	Too much is badâ€"an appraisal of phytotoxicity of elevated plant-beneficial heavy metal ions. Environmental Science and Pollution Research, 2015, 22, 3361-3382.	5.3	108

#	Article	IF	Citations
19	Anguilla anguilla L. oxidative stress biomarkers responses to copper exposure with or without Î²-naphthoflavone pre-exposure. Chemosphere, 2005, 61, 267-275.	8.2	90
20	Protective effects of Emblica officinalis Gaertn. in cyclophosphamide-treated mice. Human and Experimental Toxicology, 2001, 20, 643-650.	2.2	85
21	Modulation of glutathione and its related enzymes in plantsâ€™ responses to toxic metals and metalloidsâ€"A review. Environmental and Experimental Botany, 2011, 75, 307-307.	4.2	84
22	Anguilla anguilla L. oxidative stress biomarkers: An in situ study of freshwater wetland ecosystem (Pateira de Fermentelos, Portugal). Chemosphere, 2006, 65, 952-962.	8.2	83
23	Protective effect of Cassia occidentalis L. on cyclophosphamide-induced suppression of humoral immunity in mice. Journal of Ethnopharmacology, 2001, 75, 13-18.	4.1	73
24	Single-bilayer graphene oxide sheet tolerance and glutathione redox system significance assessment in faba bean (Vicia faba L.). Journal of Nanoparticle Research, 2013, 15, 1.	1.9	59
25	Anguilla anguilla L. antioxidants responses to in situ bleached kraft pulp mill effluent outlet exposure. Environment International, 2004, 30, 301-308.	10.0	58
26	Salt Marsh Halophyte Services to Metalâ€"Metalloid Remediation: Assessment of the Processes and Underlying Mechanisms. Critical Reviews in Environmental Science and Technology, 2014, 44, 2038-2106.	12.8	58
27	Improving Growth and Productivity of Oleiferous Brassicas under Changing Environment: Significance of Nitrogen and Sulphur Nutrition, and Underlying Mechanisms. Scientific World Journal, The, 2012, 2012, 1-12.	2.1	53
28	Antioxidant system breakdown in brain of feral golden grey mullet (Liza aurata) as an effect of mercury exposure. Ecotoxicology, 2010, 19, 1034-1045.	2.4	52
29	Lipid peroxidation vs. antioxidant modulation in the bivalve Scrobicularia plana in response to environmental mercuryâ€"Organ specificities and age effect. Aquatic Toxicology, 2011, 103, 150-158.	4.0	51
30	Wild juvenile Dicentrarchus labrax L. liver antioxidant and damage responses at Aveiro Lagoon, Portugal. Ecotoxicology and Environmental Safety, 2009, 72, 1861-1870.	6.0	44
31	DNA damage and lipid peroxidation vs. protection responses in the gill of Dicentrarchus labrax L. from a contaminated coastal lagoon (Ria de Aveiro, Portugal). Science of the Total Environment, 2008, 406, 298-307.	8.0	42
32	Impact of Seasonal Fluctuations on the Sediment-Mercury, its Accumulation and Partitioning in Halimione portulacoides and Juncus maritimus Collected from Ria de Aveiro Coastal Lagoon (Portugal). Water, Air, and Soil Pollution, 2011, 222, 1-15.	2.4	41
33	Remediation of mercury contaminated saltwater with functionalized silica coated magnetite nanoparticles. Science of the Total Environment, 2016, 557-558, 712-721.	8.0	38
34	Modulatory Effect of Copper on Nonenzymatic Antioxidants in Freshwater Fish Channa punctatus (Bloch.). Biological Trace Element Research, 2003, 93, 237-248.	3.5	36
35	Naphthalene-induced differential tissue damage association with circulating fish phagocyte induction. Ecotoxicology and Environmental Safety, 2003, 54, 7-15.	6.0	36
36	Evaluation of oxidative DNA lesions in plasma and nuclear abnormalities in erythrocytes of wild fish (Liza aurata) as an integrated approach to genotoxicity assessment. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 703, 83-89.	1.7	36

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37	Hepatic metallothionein concentrations in the golden grey mullet (Liza aurata) â€“ Relationship with environmental metal concentrations in a metal-contaminated coastal system in Portugal. Marine Environmental Research, 2010, 69, 227-233.	2.5	32
38	Monitoring pollution of coastal lagoon using Liza aurata kidney oxidative stress and genetic endpoints: an integrated biomarker approach. Ecotoxicology, 2010, 19, 643-653.	2.4	30
39	Salt marsh macrophyte Phragmites australis strategies assessment for its dominance in mercury-contaminated coastal lagoon (Ria de Aveiro, Portugal). Environmental Science and Pollution Research, 2012, 19, 2879-2888.	5.3	25
40	Eriophorum angustifolium and Lolium perenne metabolic adaptations to metals- and metalloids-induced anomalies in the vicinity of a chemical industrial complex. Environmental Science and Pollution Research, 2013, 20, 568-581.	5.3	25
41	Antioxidant Responses Versus DNA Damage and Lipid Peroxidation in Golden Grey Mullet Liver: A Field Study at Ria de Aveiro (Portugal). Archives of Environmental Contamination and Toxicology, 2010, 59, 454-463.	4.1	23
42	Role of non-enzymatic antioxidants on the bivalves' adaptation to environmental mercury: Organ-specificities and age effect in Scrobicularia plana inhabiting a contaminated lagoon. Environmental Pollution, 2012, 163, 218-225.	7.5	23
43	Mercury contaminated systems under recovery can represent an increased risk to seafood human consumers â€“ A paradox depicted in bivalvesâ€™ body burdens. Food Chemistry, 2012, 133, 665-670.	8.2	21
44	Responses of European eel (Anguilla anguilla L.) circulating phagocytes to an in situ closed pulp mill effluent exposure and its association with organ-specific peroxidative damage. Chemosphere, 2006, 63, 794-801.	8.2	20
45	Immunosuppression in the infaunal bivalve Scrobicularia plana environmentally exposed to mercury and association with its accumulation. Chemosphere, 2011, 82, 1541-1546.	8.2	20
46	Potassium-induced alleviation of salinity stress in Brassica campestris L.. Open Life Sciences, 2011, 6, 1054-1063.	1.4	20
47	Juvenile sea bass (Dicentrarchus labrax L.) DNA strand breaks and lipid peroxidation response following 17Î²-estradiol two mode of exposures. Environment International, 2008, 34, 23-29.	10.0	19
48	Juvenile sea bass (Dicentrarchus labrax L.) enzymatic and non-enzymatic antioxidant responses following 17Î²-estradiol exposure. Ecotoxicology, 2009, 18, 974-982.	2.4	19
49	Halimione portulacoides (L.) physiological/biochemical characterization for its adaptive responses to environmental mercury exposure. Environmental Research, 2014, 131, 39-49.	7.5	18
50	Responses of Circulating Fish Phagocytes to Paper Mill Effluent Exposure. Bulletin of Environmental Contamination and Toxicology, 1998, 61, 746-753.	2.7	17
51	Paper and Pulp Mill Effluent-Induced Immunotoxicity in Freshwater Fish Channa punctatus (Bloch). Archives of Environmental Contamination and Toxicology, 2001, 40, 271-276.	4.1	17
52	Modulation of glutathione and its dependent enzymes in gill cells of Anguilla anguilla exposed to silica coated iron oxide nanoparticles with or without mercury co-exposure under in vitro condition. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 162, 7-14.	2.6	17
53	Assessment of cytotoxicity and oxidative stress induced by titanium oxide nanoparticles on Chinook salmon cells. Environmental Science and Pollution Research, 2015, 22, 15571-15578.	5.3	15
54	Golden grey mullet and sea bass oxidative DNA damage and clastogenic/aneugenic responses in a contaminated coastal lagoon. Ecotoxicology and Environmental Safety, 2010, 73, 1907-1913.	6.0	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. Environmental Science and Pollution Research, 2015, 22, 2239-2246.	5.3	14
56	Interference of the co-exposure of mercury with silica-coated iron oxide nanoparticles can modulate genotoxicity induced by their individual exposuresâ€"a paradox depicted in fish under in vitro conditions. Environmental Science and Pollution Research, 2015, 22, 3687-3696.	5.3	13
57	Mercury-Induced Chromosomal Damage in Wild Fish (Dicentrarchus labrax L.) Reflecting Aquatic Contamination in Contrasting Seasons. Archives of Environmental Contamination and Toxicology, 2012, 63, 554-562.	4.1	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 (Anguilla anguilla) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.3	12
59	Oxidative stress status, antioxidant metabolism and polypeptide patterns in Juncus maritimus shoots exhibiting differential mercury burdens in Ria de Aveiro coastal lagoon (Portugal). Environmental Science and Pollution Research, 2014, 21, 6652-6661.	5.3	10
60	Juncus maritimus root biochemical assessment for its mercury stabilization potential in Ria de Aveiro coastal lagoon (Portugal). Environmental Science and Pollution Research, 2015, 22, 2231-2238.	5.3	10
61	Evaluation of zinc accumulation, allocation, and tolerance in Zea mays L. seedlings: implication for zinc phytoextraction. Environmental Science and Pollution Research, 2015, 22, 15443-15448.	5.3	9
62	An international proficiency test as a tool to evaluate mercury determination in environmental matrices. TrAC - Trends in Analytical Chemistry, 2015, 64, 136-148.	11.4	9
63	Seasonal Liza aurata tissue-specific DNA integrity in a multi-contaminated coastal lagoon (Ria de) Tj ETQq1 1 0.784314 rgBT /Overloc	5.0	8
64	Spatial variation of potentially toxic elements in different grain size fractions of marine sediments from Gulf of Mannar, India. Environmental Monitoring and Assessment, 2013, 185, 7581-7589.	2.7	8
65	Phenological development stages variation versus mercury tolerance, accumulation, and allocation in salt marsh macrophytes Triglochin maritima and Scirpus maritimus prevalent in Ria de Aveiro coastal lagoon (Portugal). Environmental Science and Pollution Research, 2013, 20, 3910-3922.	5.3	8
66	Protection of growth and photosynthesis of Brassica juncea 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. Russian Journal of Plant Physiology, 2011, 58, 892-898.	1.1	6
67	Seasonal Trend of Potential Toxic Elements in Seawater and Sediments from Tuticorin Coast. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	6
68	Modulatory role of copper on Î²-naphthoflavone-induced DNA damage in European eel (Anguilla) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	6.0	5
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 (Anguilla anguilla L.). Environmental Science and Pollution Research, 2015, 22, 18574-18589.	5.3	5
70	Mercuryâ€™s mitochondrial targeting with increasing age in Scrobicularia plana inhabiting a contaminated lagoon: Damage-protection dichotomy and organ specificities. Chemosphere, 2013, 92, 1231-1237.	8.2	4
71	Lipid peroxidation and its control in Anguilla anguilla hepatocytes under silica-coated iron oxide nanoparticles (with or without mercury) exposure. Environmental Science and Pollution Research, 2015, 22, 9617-9625.	5.3	4
72	Morphological, compositional and ultrastructural changes in the Scrobicularia plana shell in response to environmental mercury â€“ An indelible fingerprint of metal exposure?. Chemosphere, 2013, 90, 2697-2704.	8.2	1