Muhammad Iqbal

List of Publications by Year
in descending order

125 papers	4,896 citations	116194 36 h-index	124990 64 g-index
130 all docs	130 docs citations	130 times ranked	5546 citing authors

#	Article	IF	Citations
1	Fullerenol [60] Nano-cages for Protection of Crops Against Oxidative Stress: A Critical Review. Journal of Plant Growth Regulation, 2023, 42, 1267-1290.	2.8	8
2	Deciphering the Role of Plant-Derived Smoke Solution in Ameliorating Saline Stress and Improving Physiological, Biochemical, and Growth Responses of Wheat. Journal of Plant Growth Regulation, 2022, 41, 2769-2786.	2.8	4
3	Chlorophyll fluorescence, ion uptake, and osmoregulation are potential indicators for detecting ecotypic variation in salt tolerance of Panicum antidotale Retz*. Arid Land Research and Management, 2022, 36, 84-108.	0.6	4
4	Taurine modulates dynamics of oxidative defense, secondary metabolism, and nutrient relation to mitigate boron and chromium toxicity in Triticum aestivum L. plants. Environmental Science and Pollution Research, 2022, 29, 45527-45548.	2.7	30
5	Exogenous Caffeine (1,3,7-Trimethylxanthine) Application Diminishes Cadmium Toxicity by Modulating Physio-Biochemical Attributes and Improving the Growth of Spinach (Spinacia oleracea L.). Sustainability, 2022, 14, 2806.	1.6	9
6	Foliar application of nano-zinc oxide crystals improved zinc biofortification in cauliflower (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	3
7	Tartaric acid soil-amendment increases phytoextraction potential through root to shoot transfer of lead in turnip. Chemosphere, 2022, 296, 134055.	4.2	7
8	Sustainable Agriculture and Plant Production by Virtue of Biochar in the Era of Climate Change. , 2022, , 21-42.		36
9	Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review. Journal of Plant Growth Regulation, 2021, 40, 891-905.	2.8	9
10	Tissue-specific modulation of metabolism and nutrients acquisition through seed priming with sodium selenate confers salt tolerance in wheat. Archives of Agronomy and Soil Science, 2021, 67, 1434-1447.	1.3	3
11	Hydrogen sulfide mediates defense response in safflower by regulating secondary metabolism, oxidative defense, and elemental uptake under drought. Physiologia Plantarum, 2021, 172, 795-808.	2.6	25
12	Serratia sp. CP-13 alleviates Cd toxicity by morpho-physio-biochemical improvements, antioxidative potential and diminished Cd uptake in Zea mays L. cultivars differing in Cd tolerance. Ecotoxicology and Environmental Safety, 2021, 208, 111584.	2.9	32
13	Fullerenol regulates oxidative stress and tissue ionic homeostasis in spring wheat to improve net-primary productivity under salt-stress. Ecotoxicology and Environmental Safety, 2021, 211, 111901.	2.9	37
14	Influence of foliar glutathione and putrescine on metabolism and mineral status of genetically diverse rapeseed cultivars under hexavalent chromium stress. Environmental Science and Pollution Research, 2021, 28, 45353-45363.	2.7	4
15	Responses of bimetallic Ag/ZnO alloy nanoparticles and urea on morphological and physiological attributes of wheat. IET Nanobiotechnology, 2021, 15, 602-610.	1.9	10
16	Individual Rather Than Simultaneous Priming with Glutathione and Putrescine Reduces Chromium Cr6+ Toxicity in Contrasting Canola (Brassica napus L.) Cultivars. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 427-432.	1.3	2
17	Root-zone addition of glutathione and putrescine synergistically regulate GSHâ€“NO metabolism to alleviate Cr (VI) toxicity in rapeseed seedlings. Environmental Technology and Innovation, 2021, 22, 101469.	3.0	4
18	How Do Trees Grow in Girth? Controversy on the Role of Cellular Events in the Vascular Cambium. Acta Biotheoretica, 2021, 69, 643-670.	0.7	6

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19	The exogenous menadiol diacetate enhances growth and yield by reducing Pb uptake, translocation and its toxicity through tissue nutrients acquisition in cucumber (Cucumis sativus L.). Environmental Technology and Innovation, 2021, 23, 101666.	3.0	2
20	Interactive effects of chitosan and cadmium on growth, secondary metabolism, oxidative defense, and element uptake in pea (Pisum sativum L.). Arabian Journal of Geosciences, 2020, 13, 1.	0.6	12
21	Menadione sodium bisulfite neutralizes chromium phytotoxic effects in okra by regulating cytosolutes, lipid peroxidation, antioxidant system and metal uptake. International Journal of Phytoremediation, 2020, 23, 1-11.	1.7	14
22	Peptone-Induced Physio-Biochemical Modulations Reduce Cadmium Toxicity and Accumulation in Spinach (Spinacia oleracea L.). Plants, 2020, 9, 1806.	1.6	12
23	Jute: A Potential Candidate for Phytoremediation of Metalsâ€"A Review. Plants, 2020, 9, 258.	1.6	102
24	Foliar applied fullerol differentially improves salt tolerance in wheat through ion compartmentalization, osmotic adjustments and regulation of enzymatic antioxidants. Physiology and Molecular Biology of Plants, 2020, 26, 475-487.	1.4	28
25	Organic chelates decrease phytotoxic effects and enhance chromium uptake by regulating chromium-speciation in castor bean (Ricinus communis L.). Science of the Total Environment, 2020, 716, 137061.	3.9	50
26	Major Constraints for Global Rice Production: Changing Climate, Abiotic and Biotic Stresses. , 2020, , 15-45.		7
27	Exogenously applied 5-aminolevulinic acid modulates growth, secondary metabolism and oxidative defense in sunflower under water deficit stress. Physiology and Molecular Biology of Plants, 2020, 26, 489-499.	1.4	25
28	Exogenously applied proline induced changes in key anatomical features and physio-biochemical attributes in water stressed oat (Avena sativa L.) plants. Physiology and Molecular Biology of Plants, 2019, 25, 1121-1135.	1.4	23
29	Seed Pre-treatment with Polyhydroxy Fullerene Nanoparticles Confer Salt Tolerance in Wheat Through Upregulation of H2O2 Neutralizing Enzymes and Phosphorus Uptake. Journal of Soil Science and Plant Nutrition, 2019, 19, 734-742.	1.7	46
30	Cysteine-induced alterations in physicochemical parameters of oat (Avena sativaL. var. Scott) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	6
31	Assessment of AgNPs exposure on physiological and biochemical changes and antioxidative defence system in wheat (Triticum aestivum L) under heat stress. IET Nanobiotechnology, 2019, 13, 230-236.	1.9	45
32	Silver nanoparticles and silver salt (AgNO 3) elicits morphogenic and biochemical variations in callus cultures of sugarcane. IET Nanobiotechnology, 2019, 13, 896-904.	1.9	3
33	Effect of green synthesised silver nanoparticles on morphogenic and biochemical variations in callus cultures of kinnow mandarin (Citrus reticulata L.). IET Nanobiotechnology, 2019, 13, 541-545.	1.9	6
34	Exogenous menadione sodium bisulfite mitigates specific ion toxicity and oxidative damage in salinity-stressed okra (Abelmoschus esculentus Moench). Acta Physiologiae Plantarum, 2019, 41, 1.	1.0	13
35	Green synthesis and evaluation of silver nanoparticles for antimicrobial and biochemical profiling in Kinnow (Citrus reticulata L.) to enhance fruit quality and productivity under biotic stress. IET Nanobiotechnology, 2019, 13, 250-256.	1.9	9
36	Exogenous Silicon Modulates Growth, Physio-Chemicals and Antioxidants in Barley (Hordeum vulgare) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	24

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37	Assessment of Green Synthesized Silver Nanoparticles in Wheat Seedlings at the Anatomical Level in Relation to Their Uptake, Translocation, and Accumulation. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 1551-1561.	0.7	5
38	Effect of Silver Nanoparticles on Growth of Wheat Under Heat Stress. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 387-395.	0.7	144
39	Applications of Plant Flavonoids in the Green Synthesis of Colloidal Silver Nanoparticles and Impacts on Human Health. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 1381-1392.	0.7	40
40	Chemical Priming for Multiple Stress Tolerance. , 2019, , 385-415.		2
41	Application of Biochar for the Mitigation of Abiotic Stress-Induced Damages in Plants. , 2019, , 285-304.		4
42	Smoke produced from plants waste material elicits growth of wheat (Triticum aestivum L.) by improving morphological, physiological and biochemical activity. Biotechnology Reports (Amsterdam,) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.1	27
43	Glycine betaine counteracts the inhibitory effects of waterlogging on growth, photosynthetic pigments, oxidative defence system, nutrient composition, and fruit quality in tomato. Journal of Horticultural Science and Biotechnology, 2018, 93, 385-391.	0.9	53
44	Phenological application of selenium differentially improves growth, oxidative defense and ion homeostasis in maize under salinity stress. Plant Physiology and Biochemistry, 2018, 123, 268-280.	2.8	94
45	Opportunities and challenges in the use of mineral nutrition for minimizing arsenic toxicity and accumulation in rice: A critical review. Chemosphere, 2018, 194, 171-188.	4.2	82
46	Geometric analysis of intrusive growth of wood fibres in Robinia pseudoacacia. IAWA Journal, 2018, 39, 191-208.	2.7	10
47	Effect of silver nanoparticles and silver nitrate on growth of rice under biotic stress. IET Nanobiotechnology, 2018, 12, 927-932.	1.9	47
48	Seed germination and biochemical profile of Citrus reticulata (Kinnow) exposed to green synthesised silver nanoparticles. IET Nanobiotechnology, 2018, 12, 688-693.	1.9	8
49	Menadione sodium bisulphite mediated growth, secondary metabolism, nutrient uptake and oxidative defense in okra (Abelmoschus esculentus Moench) under cadmium stress. Journal of Hazardous Materials, 2018, 360, 604-614.	6.5	39
50	Green synthesis and characterisation of silver nanoparticles and their effects on antimicrobial efficacy and biochemical profiling in Citrus reticulata. IET Nanobiotechnology, 2018, 12, 514-519.	1.9	29
51	Recent Advances in Abiotic Stress Tolerance of Plants Through Chemical Priming: An Overview. , 2018, , 51-79.		31
52	Environmental Stress and Secondary Metabolites in Plants. , 2018, , 153-167.		56
53	Dynamic Proline Metabolism. , 2018, , 323-336.		9
54	Effect of Indole-3-Butyric Acid on Clonal Propagation of Mulberry (Morus alba L.) Stem Cuttings: Rooting and Associated Biochemical Changes. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2017, 87, 161-166.	0.4	19

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55	Root zone selenium reduces cadmium toxicity by modulating tissue-specific growth and metabolism in maize (Zea maysL.). Archives of Agronomy and Soil Science, 2017, 63, 1900-1911.	1.3	14
56	Advances in microbe-assisted reclamation of heavy metal contaminated soils over the last decade: A review. Journal of Environmental Management, 2017, 198, 132-143.	3.8	178
57	Does exogenous application of ascorbic acid modulate growth, photosynthetic pigments and oxidative defense in okra (Abelmoschus esculentus (L.) Moench) under lead stress?. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	24
58	Nitrogen-regulated changes in total amino acid profile of maize genotypes having contrasting response to nitrogen deficit. Protoplasma, 2017, 254, 2143-2153.	1.0	18
59	Foliar application of selenium increases fertility and grain yield in bread wheat under contrasting water availability regimes. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	16
60	In vitro seed germination and biochemical profiling of Artemisia absinthium exposed to various metallic nanoparticles. 3 Biotech, 2017, 7, 101.	1.1	42
61	Exogenous triacontanol-mediated increase in phenolics, proline, activity of nitrate reductase, and shoot k+ confers salt tolerance in maize (Zea mays L.). Revista Brasileira De Botanica, 2017, 40, 1-11.	0.5	32
62	In vitro germination and biochemical profiling of citrus reticulata in response to green synthesised zinc and copper nanoparticles. IET Nanobiotechnology, 2017, 11, 790-796.	1.9	34
63	Heat shock increases oxidative stress to modulate growth and physico-chemical attributes in diverse maize cultivars. International Agrophysics, 2016, 30, 519-531.	0.7	6
64	Drought tolerance potential of Vigna mungo L. lines as deciphered by modulated growth, antioxidant defense, and nutrient acquisition patterns. Revista Brasileira De Botanica, 2016, 39, 801-812.	0.5	28
65	Influence of Drought Applied at Different Growth Stages on Kernel Yield and Quality in Maize (Zea) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	5
66	Ethnobotany of the Balti community, Tormik valley, Karakorum range, Baltistan, Pakistan. Journal of Ethnobiology and Ethnomedicine, 2016, 12, 38.	1.1	89
67	Organic chelants-mediated enhanced lead (Pb) uptake and accumulation is associated with higher activity of enzymatic antioxidants in spinach (Spinacea oleracea L.). Journal of Hazardous Materials, 2016, 317, 352-361.	6.5	66
68	Elemental sulfur improves growth and phytoremediative ability of wheat grown in lead-contaminated calcareous soil. International Journal of Phytoremediation, 2016, 18, 1022-1028.	1.7	21
69	K-priming positively modulates growth and nutrient status of salt-stressed cotton (Gossypium) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	17
70	Glycinebetaine mediates chromium tolerance in mung bean through lowering of Cr uptake and improved antioxidant system. Archives of Agronomy and Soil Science, 2016, 62, 648-662.	1.3	97
71	Efficacy of differently applied tyrosine and tryptophan for modulation of phenolic metabolism in Trachyspermum ammi (L.) sprague seedlings. Pakistan Journal of Pharmaceutical Sciences, 2016, 29, 1847-1851.	0.2	0
72	Effect of Semiarid Environment on Some Nutritional and Antinutritional Attributes of Calendula (Calendula officinalis). Journal of Chemistry, 2015, 2015, 1-8.	0.9	2

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73	Modulations in plant water relations and tissue-specific osmoregulation by foliar-applied ascorbic acid and the induction of salt tolerance in maize plants. Revista Brasileira De Botanica, 2015, 38, 527-538.	0.5	22
74	Exogenously applied selenium reduces oxidative stress and induces heat tolerance in spring wheat. Plant Physiology and Biochemistry, 2015, 94, 95-103.	2.8	107
75	Hydrogen peroxide modulates antioxidant system and nutrient relation in maize (Zea maysL.) under water-deficit conditions. Archives of Agronomy and Soil Science, 2015, 61, 507-523.	1.3	58
76	Exogenous application of silicon at the boot stage decreases accumulation of cadmium in wheat (Triticum aestivum L.) grains. Revista Brasileira De Botanica, 2015, 38, 223-234.	0.5	62
77	Nanoscale copper in the soilâ€"plant system â€" toxicity and underlying potential mechanisms. Environmental Research, 2015, 138, 306-325.	3.7	124
78	Mannitol alleviates chromium toxicity in wheat plants in relation to growth, yield, stimulation of anti-oxidative enzymes, oxidative stress and Cr uptake in sand and soil media. Ecotoxicology and Environmental Safety, 2015, 122, 1-8.	2.9	92
79	FRET-based genetically-encoded sensors for quantitative monitoring of metabolites. Biotechnology Letters, 2015, 37, 1919-1928.	1.1	29
80	Lateral Meristems Responsible for Secondary Growth of the Monocotyledons: A Survey of the State of the Art. Botanical Review, The, 2015, 81, 150-161.	1.7	30
81	Physiological and biochemical markers to optimize sugar mill wastewater for irrigation in maize (Zea) Tj ETQq1 1 0.784314 rgBT /Ove	0.5	3
82	Lipids and proteinsâ€"major targets of oxidative modifications in abiotic stressed plants. Environmental Science and Pollution Research, 2015, 22, 4099-4121.	2.7	252
83	Metabolite Profiling of Low-P Tolerant and Low-P Sensitive Maize Genotypes under Phosphorus Starvation and Restoration Conditions. PLoS ONE, 2015, 10, e0129520.	1.1	86
84	Growth, water status, and leaf characteristics of Brassica carinata under drought and rehydration conditions. Revista Brasileira De Botanica, 2014, 37, 217-227.	0.5	73
85	Glutathione and proline can coordinately make plants withstand the joint attack of metal(loid) and salinity stresses. Frontiers in Plant Science, 2014, 5, 662.	1.7	111
86	Effect of Salt Stress on Different Growth and Biochemical Attributes in Two Canola (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	0.6	19
87	Exogenous proline and glycinebetaine mitigate cadmium stress in two genetically different spring wheat (Triticum aestivum L.) cultivars. Revista Brasileira De Botanica, 2014, 37, 399-406.	0.5	52
88	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. Critical Reviews in Plant Sciences, 2014, 33, 374-391.	2.7	279
89	Modelling for rearrangement of fusiform initials during radial growth of the vascular cambium in Pinus sylvestris L.. Trees - Structure and Function, 2013, 27, 879-893.	0.9	14
90	Drought-induced adaptive changes in the seedling anatomy of Acacia ehrenbergiana and Acacia tortilis subsp. raddiana. Trees - Structure and Function, 2013, 27, 959-971.	0.9	28

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91	Alleviation of salinity-induced perturbations in ionic and hormonal concentrations in spring wheat through seed preconditioning in synthetic auxins. Acta Physiologiae Plantarum, 2013, 35, 1093-1112.	1.0	30
92	Screening Indian Mustard Genotypes for Phytoremediating Arsenicâ€Contaminated Soils. Clean - Soil, Air, Water, 2013, 41, 195-201.	0.7	30
93	Identification of the Phytoremediation Potential of Indian mustard Genotypes for Copper, Evaluated from a Hydroponic Experiment. Clean - Soil, Air, Water, 2013, 41, 789-796.	0.7	16
94	Gibberellic acid mediated induction of salt tolerance in wheat plants: Growth, ionic partitioning, photosynthesis, yield and hormonal homeostasis. Environmental and Experimental Botany, 2013, 86, 76-85.	2.0	229
95	Salt tolerance and regulation of gas exchange and hormonal homeostasis by auxin-priming in wheat. Pesquisa Agropecuaria Brasileira, 2013, 48, 1210-1219.	0.9	15
96	Differential response of wheat genotypes to applied nitrogen: biochemical and molecular analysis. Archives of Agronomy and Soil Science, 2012, 58, 915-929.	1.3	12
97	Variability of nitrogen uptake and assimilation among N-efficient and N-inefficient wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	11
98	Position of rays and lateral deviation of vessel elements in the stem wood of some dicotyledonous species with storeyed, double-storeyed, and nonstoreyed cambia. Botany, 2011, 89, 849-860.	0.5	7
99	Induction of phytochelatins and antioxidant defence system in Brassica juncea and Vigna radiata in response to chromium treatments. Plant Growth Regulation, 2010, 61, 97-107.	1.8	102
100	Behavioral responses of leaves and vascular cambium ofProsopis cineraria(L.) Druce to different regimes of coal-smoke pollution. Journal of Plant Interactions, 2010, 5, 117-133.	1.0	10
101	Does intrusive growth of fusiform initials really contribute to circumferential growth of vascular cambium?. Botany, 2009, 87, 154-163.	0.5	14
102	Mercury-induced changes in growth variables and antioxidative enzyme activities in Indian mustard. Journal of Plant Interactions, 2009, 4, 131-136.	1.0	22
103	Phytoremediation of Heavy Metals: Physiological and Molecular Mechanisms. Botanical Review, The, 2009, 75, 339-364.	1.7	235
104	Coal-smoke pollution modifies physio-chemical characteristics of tissues during the ontogeny of Peristrophe bicalyculata. Biologia (Poland), 2008, 63, 1128-1134.	0.8	11
105	Responses of Components of Antioxidant System in Moongbean Genotypes to Cadmium Stress. Communications in Soil Science and Plant Analysis, 2008, 39, 2469-2483.	0.6	37
106	Ontogenic variation in response ofBrassica campestrisL. to cadmium toxicity. Journal of Plant Interactions, 2008, 3, 189-198.	1.0	50
107	Growth characteristics and antioxidant metabolism of moongbean genotypes differing in photosynthetic capacity subjected to water deficit stress. Journal of Plant Interactions, 2008, 3, 127-136.	1.0	16
108	Coal-smoke pollution modifies physio-chemical characteristics of tissues during the ontogeny of Peristrophe bicalyculata. , 2008, 63, 1128.		0

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109	Seed Treatment with Auxins Modulates Growth and Ion Partitioning in Salt-stressed Wheat Plants. Journal of Integrative Plant Biology, 2007, 49, 1003-1015.	4.1	109
110	Does Seed Priming Induce Changes in the Levels of Some Endogenous Plant Hormones in Hexaploid Wheat Plants Under Salt Stress?. Journal of Integrative Plant Biology, 2006, 48, 181-189.	4.1	108
111	Seed enhancement with cytokinins: changes in growth and grain yield in salt stressed wheat plants. Plant Growth Regulation, 2006, 48, 207.	1.8	12
112	Seed enhancement with cytokinins: changes in growth and grain yield in salt stressed wheat plants. Plant Growth Regulation, 2006, 50, 29-39.	1.8	107
113	Presowing Seed Treatment with Cytokinins and Its Effect on Growth, Photosynthetic Rate, Ionic Levels and Yield of Two Wheat Cultivars Differing in Salt Tolerance. Journal of Integrative Plant Biology, 2005, 47, 1315-1325.	4.1	53
114	Effect of Timing of Sulfur Fertilizer Application on Growth and Yield of Rapeseed. Journal of Plant Nutrition, 2005, 28, 1049-1059.	0.9	39
115	Readjustments of cambial initials in Wisteria floribunda (Willd.) DC. for development of storeyed structure. New Phytologist, 2004, 163, 287-297.	3.5	21
116	Stomatal and photosynthetic responses ofCichorium intybus leaves to sulfur dioxide treatment at different stages of plant development. Journal of Plant Biology, 2001, 44, 97-102.	0.9	13
117	Morphological and anatomical variations ofCajanus cajan (Linn.) huth raised in cadmium-rich soil. Journal of Plant Biology, 2000, 43, 149-157.	0.9	14
118	Growth responses and Hyoscyamine content ofDatura innoxia under the influence of coal-smoke pollution. Journal of Plant Biology, 2000, 43, 69-75.	0.9	12
119	Herbal Ethnomedicine Of The Gwalior Forest Division In Madhya Pradesh, India. Pharmaceutical Biology, 2000, 38, 241-253.	1.3	34
120	Foliar responses ofPeristrophe bicalyculata to coal smoke pollution. Journal of Plant Biology, 1999, 42, 205-212.	0.9	11
121	Structural changes in root and shoot ofBacopa monniera in response to salt stress. Journal of Plant Biology, 1999, 42, 222-225.	0.9	10
122	Seasonal Rhythms of Structure and Behaviour of Vascular Cambium in Ficus rumphii. Annals of Botany, 1987, 60, 649-656.	1.4	18
123	Trends of ontogenetic size variation of cambial initials and their derivatives in the stem ofBauhinia parvifloraVahl. Bulletin De La SociÃ©tÃ© Botanique De France Lettres Botaniques, 1981, 128, 165-175.	0.1	4
124	Ontogenetic size variation of sieve-tube elements inProsopis spicigeraL.. Bulletin De La SociÃ©tÃ© Botanique De France, 1977, 124, 445-450.	0.2	3
125	Circadian Variation in Activities of Blackbuck Under Captivity in Punjab, Pakistan. Proceedings of the Zoological Society, 0, , 1.	0.4	0