

Muhammad Zia

List of Publications by Year in descending order

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112
papers

4,709
citations

196777

29
h-index

120465

65
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112
all docs

112
docs citations

112
times ranked

6247
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative evaluation of chemically and green synthesized zinc oxide nanoparticles: their in vitro antioxidant, antimicrobial, cytotoxic and anticancer potential towards HepG2 cell line. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 243-261.	5.3	11
2	Antioxidant, antimicrobial, enzyme inhibition, and cytotoxicity guided investigation of <i>Sideroxylon mascatense</i> (A.DC.) T.D. Penn. leaves extracts. <i>Natural Product Research</i> , 2022, 36, 4227-4230.	1.0	7
3	Antioxidative, phytochemical and antimicrobial analysis of juices of eight citrus cultivars grown in Pakistan. , 2022, 2, 300-305.		3
4	Antioxidative-, Antimicrobial-, Enzyme Inhibition-, and Cytotoxicity-Based Fractionation and Isolation of Active Components from <i>Monothecha buxifolia</i> (Falc.) A. DC. Stem Extracts. <i>ACS Omega</i> , 2022, 7, 3407-3423.	1.6	6
5	Comparative analysis of synthesis, characterization, antimicrobial, antioxidant, and enzyme inhibition potential of roses petal based synthesized copper oxide nanoparticles. <i>Materials Chemistry and Physics</i> , 2022, 278, 125724.	2.0	18
6	Removal of toxic metal ions (Ni ²⁺ and Cd ²⁺) from wastewater by using TOPO decorated iron oxide nanoparticles. <i>Applied Water Science</i> , 2022, 12, 1.	2.8	11
7	Chemical composition, antibacterial and antioxidative activities of <i>Monothecha buxifolia</i> (Falc.) A. DC leaves essential oil. <i>Natural Product Research</i> , 2022, 36, 5848-5851.	1.0	2
8	Protein Kinase Inhibition, Antibacterial Activity, and Characterization of Phytoextract-Mediated Silver Nanoparticles Using Aqueous Extracts of <i>Ifloga spicata</i> . <i>Journal of Nanomaterials</i> , 2022, 2022, 1-9.	1.5	3
9	Blueprinting morpho-anatomical episodes via green silver nanoparticles foliation. <i>Green Processing and Synthesis</i> , 2022, 11, 697-708.	1.3	13
10	Comparative toxicity of green and chemically synthesized CuO NPs during pregnancy and lactation in rats and offspring: Part I -hepatotoxicity. <i>Chemosphere</i> , 2021, 266, 128945.	4.2	5
11	Synergistic influence of CuO nanoparticles and spectral lights transforms biomass, antioxidative response, and antioxidants in <i>Brassica nigra</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 145, 261-274.	1.2	9
12	Phytotoxic Evaluation of Phytosynthesized Silver Nanoparticles on Lettuce. <i>Coatings</i> , 2021, 11, 225.	1.2	33
13	Cancer models in preclinical research: A chronicle review of advancement in effective cancer research. <i>Animal Models and Experimental Medicine</i> , 2021, 4, 87-103.	1.3	57
14	Photoinduced Fabrication of Zinc Oxide Nanoparticles: Transformation of Morphological and Biological Response on Light Irradiance. <i>ACS Omega</i> , 2021, 6, 11783-11793.	1.6	42
15	Induction of secondary metabolites on nanoparticles stress in callus culture of <i>Artemisia annua</i> L.. <i>Brazilian Journal of Biology</i> , 2021, 81, 474-483.	0.4	13
16	Pharmacological properties of biogenically synthesized silver nanoparticles using endophyte <i>Bacillus cereus</i> extract of <i>Berberis lyceum</i> against oxidative stress and pathogenic multidrug-resistant bacteria. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 6432-6440.	1.8	26
17	Synthesis, characterization, anticancer activity assessment and apoptosis signaling of fucoidan mediated copper oxide nanoparticles. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103250.	2.3	22
18	Synthesis, Characterization, In Vitro and In Vivo Toxicity of CuO Nanoparticles Fabricated Through <i>Rhus punjabensis</i> Leaf Extract. <i>BioNanoScience</i> , 2021, 11, 946-956.	1.5	5

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19	Green synthesis and characterization of Fe, Cu and Mg oxide nanoparticles using Clematis orientalis leaf extract: Salt concentration modulates physiological and biological properties. Materials Chemistry and Physics, 2021, 271, 124900.	2.0	9
20	Copper oxide (CuO) and manganese oxide (MnO) nanoparticles induced biomass accumulation, antioxidants biosynthesis and abiotic elicitation of bioactive compounds in callus cultures of <i>Ocimum basilicum</i> (Thai basil). Artificial Cells, Nanomedicine and Biotechnology, 2021, 49, 625-633.	1.9	19
21	COVID-19 and the 1918 influenza pandemics: a concise overview and lessons from the past. Open Health, 2021, 2, 40-49.	0.4	1
22	Anticancer and antibacterial potential of <i>Rhus punjabensis</i> and CuO nanoparticles. Natural Product Research, 2020, 34, 720-725.	1.0	20
23	Regeneration response of carnation cultivars in response of silver nanoparticles under in vitro conditions. Vegetos, 2020, 33, 11-20.	0.8	13
24	Antimicrobial, cytotoxic, phytochemical and biological properties of crude extract and solid phase fractions of <i>Monotheca buxifolia</i> . Advances in Traditional Medicine, 2020, 20, 115-122.	1.0	7
25	Metabolic fingerprinting, antioxidant characterization, and enzyme-inhibitory response of <i>Monotheca buxifolia</i> (Falc.) A. DC. extracts. BMC Complementary Medicine and Therapies, 2020, 20, 313.	1.2	9
26	Interactive Effect of Light and CdO Nanoparticles on <i>Dodonaea viscosa</i> Morphological, Antioxidant, and Phytochemical Properties. ACS Omega, 2020, 5, 24211-24221.	1.6	5
27	Role of capping agents in the application of nanoparticles in biomedicine and environmental remediation: recent trends and future prospects. Journal of Nanobiotechnology, 2020, 18, 172.	4.2	351
28	Biogenic Synthesis and Characterization of Antimicrobial and Antiparasitic Zinc Oxide (ZnO) Nanoparticles Using Aqueous Extracts of the Himalayan Columbine (<i>Aquilegia pubiflora</i>). Frontiers in Materials, 2020, 7, .	1.2	68
29	Physiological and anti-oxidative response of biologically and chemically synthesized iron oxide: <i>Zea mays</i> a case study. Heliyon, 2020, 6, e04595.	1.4	28
30	Callus Culture of Thai Basil Is an Effective Biological System for the Production of Antioxidants. Molecules, 2020, 25, 4859.	1.7	30
31	CuO and ZnO Nanoparticle Application in Synthetic Soil Modulates Morphology, Nutritional Contents, and Metal Analysis of <i>Brassica nigra</i> . ACS Omega, 2020, 5, 13566-13577.	1.6	21
32	Toxicity of copper oxide nanoparticles: a review study. IET Nanobiotechnology, 2020, 14, 1-13.	1.9	176
33	Biological and Phytochemicals Properties of <i>Monotheca buxifolia</i> : An Unexplored Medicinal Plant. Pharmaceutical Chemistry Journal, 2020, 54, 293-301.	0.3	10
34	ZnO NPs reveal distinction in toxicity under different spectral lights: An in vitro experiment on <i>Brassica nigra</i> (Linn.) Koch. Biocatalysis and Agricultural Biotechnology, 2020, 27, 101682.	1.5	5
35	Antimicrobial, antioxidative, and cytotoxic properties of <i>Monotheca buxifolia</i> assisted synthesized metal and metal oxide nanoparticles. Inorganic and Nano-Metal Chemistry, 2020, 50, 770-782.	0.9	14
36	Biomarker selection and imaging design in cancer: A link with biochemical pathways for imminent engineering. Heliyon, 2020, 6, e03340.	1.4	5

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37	Green and Chemical Syntheses of CdO NPs: A Comparative Study for Yield Attributes, Biological Characteristics, and Toxicity Concerns. <i>ACS Omega</i> , 2020, 5, 5739-5747.	1.6	33
38	Synthesis of Silver Nanoparticles using <i>Euphorbia wallichii</i> Extract and Assessment of their Bio-functionalities. <i>Medicinal Chemistry</i> , 2020, 16, 495-506.	0.7	11
39	Postponement growth and antioxidative response of <i>Brassica nigra</i> on CuO and ZnO nanoparticles exposure under soil conditions. <i>IET Nanobiotechnology</i> , 2020, 14, 423-427.	1.9	5
40	Nanocellulose isolation characterization and applications: a journey from non-remedial to biomedical claims. <i>Bio-Design and Manufacturing</i> , 2019, 2, 187-212.	3.9	49
41	Antioxidant, Antimicrobial, Cytotoxic, and Protein Kinase Inhibition Potential in <i>Aloe vera</i> . <i>BioMed Research International</i> , 2019, 2019, 1-14.	0.9	10
42	Phytochemical, in-vitro biological and chemo-preventive profiling of <i>Arisaema jacquemontii</i> Blume tuber extracts. <i>BMC Complementary and Alternative Medicine</i> , 2019, 19, 256.	3.7	11
43	Synthesis, characterization and biological activities of monometallic and bimetallic nanoparticles using <i>Mirabilis jalapa</i> leaf extract. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 22, e00338.	2.1	57
44	Green synthesis of hematite (Fe_3O_4) nanoparticles using <i>Rhus punjabensis</i> extract and their biomedical prospect in pathogenic diseases and cancer. <i>Journal of Molecular Structure</i> , 2019, 1185, 1-7.	1.8	92
45	CeO_2 nanoparticles synthesized through green chemistry are biocompatible: In vitro and in vivo assessment. <i>Journal of Biochemical and Molecular Toxicology</i> , 2019, 33, e22291.	1.4	18
46	Thidiazuron-induced efficient biosynthesis of phenolic compounds in callus culture of <i>Ipomoea turbinata</i> Lagasca and Segura. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2019, 55, 710-719.	0.9	8
47	Physiological and antioxidative response of <i>Brassica nigra</i> (L.) to ZnO nanoparticles grown in culture media and soil. <i>Toxicological and Environmental Chemistry</i> , 2019, 101, 281-299.	0.6	16
48	^{99m}Tc -Ceftizoxime: Synthesis, characterization and its use in diagnosis of diabetic foot osteomyelitis. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2019, 63, 61-68.	0.9	8
49	Toxicological effect of CuO nanoparticles to <i>Brassica nigra</i> L. seedlings: a comparative in vivo and in vitro response. <i>Pakistan Journal of Botany</i> , 2019, 51, .	0.2	4
50	Antioxidative, protein kinase inhibition and antibacterial potential of seven mango varieties cultivated in Pakistan. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2019, 32, 1687-1695.	0.2	1
51	Phylogenetic analysis, structure modeling and docking study of HCV NS3 protease for the identification of potent inhibitors. <i>Infection, Genetics and Evolution</i> , 2018, 59, 51-62.	1.0	2
52	A case of a patient infected with a hepatitis C virus genotype 3a multidrug resistant variant in Pakistan. <i>Infectious Diseases of Poverty</i> , 2018, 7, 11.	1.5	3
53	Influence of PVP/PEG impregnated CuO NPs on physiological and biochemical characteristics of <i>Trigonella foenum-graecum</i> L. <i>IET Nanobiotechnology</i> , 2018, 12, 349-356.	1.9	25
54	Nanomaterials as nanocarriers: a critical assessment why these are multi-chore vanquisher in breast cancer treatment. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 899-916.	1.9	19

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55	Effective removal of metal ions from aqueous solution by silver and zinc nanoparticles functionalized cellulose: Isotherm, kinetics and statistical supposition of process. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018, 9, 1-11.	1.7	50
56	Elicitation of Secondary Metabolites in Callus Cultures of <i>Stevia rebaudiana</i> Bertoni Grown Under ZnO and CuO Nanoparticles Stress. <i>Sugar Tech</i> , 2018, 20, 194-201.	0.9	72
57	Comparative antileishmanial efficacy of the biosynthesised ZnO NPs from genus <i>Verbena</i> . <i>IET Nanobiotechnology</i> , 2018, 12, 1067-1073.	1.9	26
58	Low-temperature synthesis of hierarchical structures of copper oxide and their superior biological activity. <i>IET Nanobiotechnology</i> , 2018, 12, 968-972.	1.9	2
59	Anticancer, antimicrobial and antioxidant potential of sterically tuned bis-N-heterocyclic salts. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2018, 74, 17-23.	0.6	8
60	Performance of silver, zinc, and iron nanoparticles-doped cotton filters against airborne <i>E. coli</i> to minimize bioaerosol exposure. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 1233-1242.	1.5	15
61	Effective photocatalysis of direct dyes under sunlight by silver, iron, and zinc nanoparticles doped on cotton. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5915-5919.	3.3	13
62	Elemental zinc to zinc nanoparticles: is ZnO NPs crucial for life? Synthesis, toxicological, and environmental concerns. <i>Nanotechnology Reviews</i> , 2018, 7, 413-441.	2.6	128
63	Efficient metal adsorption and microbial reduction from Rawal Lake wastewater using metal nanoparticle coated cotton. <i>Science of the Total Environment</i> , 2018, 639, 26-39.	3.9	24
64	Plant-based metallic nanoparticles as potential theranostics agents: bioinspired tool for imaging and treatment. <i>IET Nanobiotechnology</i> , 2018, 12, 869-878.	1.9	6
65	Report- Antioxidant, cytotoxicity, protein kinase inhibition and antibacterial activities of <i>Fragaria x ananassa</i> leaves. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2018, 31, 1423-1429.	0.2	0
66	Effect of zinc oxide (ZnO) nanoparticles on physiology and steviol glycosides production in micropropagated shoots of <i>Stevia rebaudiana</i> Bertoni. <i>Plant Physiology and Biochemistry</i> , 2017, 110, 94-99.	2.8	133
67	Appraisal of phytochemical and in vitro biological attributes of an unexplored folklore: <i>Rhus Punjabensis</i> Stewart. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 146.	3.7	30
68	ZnO nanostructure fabrication in different solvents transforms physio-chemical, biological and photodegradable properties. <i>Materials Science and Engineering C</i> , 2017, 74, 137-145.	3.8	82
69	PVP and PEG doped CuO nanoparticles are more biologically active: Antibacterial, antioxidant, antidiabetic and cytotoxic perspective. <i>Materials Science and Engineering C</i> , 2017, 79, 108-115.	3.8	109
70	CuO nanoparticles significantly influence in vitro culture, steviol glycosides, and antioxidant activities of <i>Stevia rebaudiana</i> Bertoni. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 131, 611-620.	1.2	58
71	Antioxidant, Antimicrobial, Cytotoxic and Protein Kinase Inhibition Activities of Fifteen Traditional Medicinal Plants From Pakistan. <i>Pharmaceutical Chemistry Journal</i> , 2017, 51, 391-398.	0.3	19
72	<i>Onosma bracteatum</i> Wall and <i>Commiphora stocksiana</i> Engl extracts generate oxidative stress in <i>Brassica napus</i> : An allelopathic perspective. <i>Cogent Biology</i> , 2017, 3, 1283875.	1.7	7

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73	Differential effects of plant growth regulators on physiology, steviol glycosides content, and antioxidant capacity in micropropagated tissues of <i>Stevia rebaudiana</i> . <i>Biologia (Poland)</i> , 2017, 72, 1156-1165.	0.8	7
74	Green synthesis of silver nanoparticles from grape and tomato juices and evaluation of biological activities. <i>IET Nanobiotechnology</i> , 2017, 11, 193-199.	1.9	61
75	CuO Nanoparticles Inhibited Root Growth from <i>Brassica nigra</i> Seedlings but Induced Root from Stem and Leaf Explants. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 365-378.	1.4	45
76	Synthesis of Ag@NPs impregnated cellulose composite material: its possible role in wound healing and photocatalysis. <i>IET Nanobiotechnology</i> , 2017, 11, 477-484.	1.9	21
77	New ferrocenyl guanidines as potent antioxidants, protein kinase inhibitors and cytotoxic agents against human leukemia THP-1 cell line. <i>Russian Journal of General Chemistry</i> , 2017, 87, 2684-2689.	0.3	4
78	Polarity based characterization of biologically active extracts of <i>Ajuga bracteosa</i> Wall. ex Benth. and RP-HPLC analysis. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 443.	3.7	61
79	Abiotic stress of ZnO@PEG, ZnO@PVP, CuO@PEG and CuO@PVP nanoparticles enhance growth, sweetener compounds and antioxidant activities in shoots of <i>Stevia rebaudiana</i> Bertoni. <i>IET Nanobiotechnology</i> , 2017, 11, 898-902.	1.9	27
80	Salicylic acid and ascorbic acid retrieve activity of antioxidative enzymes and structure of <i>Caralluma tuberculata</i> calli on PEG stress. <i>General Physiology and Biophysics</i> , 2017, 36, 167-174.	0.4	5
81	Kinnow peel extract as a reducing and capping agent for the fabrication of silver NPs and their biological applications. <i>IET Nanobiotechnology</i> , 2017, 11, 1040-1045.	1.9	16
82	Synthesis and Altered Biodistribution of ^{99m} Tc Labeled Vincristine in Animal Model. <i>Current Medical Imaging</i> , 2017, 14, 59-63.	0.4	0
83	Synthesis, characterization, applications, and challenges of iron oxide nanoparticles. <i>Nanotechnology, Science and Applications</i> , 2016, Volume 9, 49-67.	4.6	1,043
84	Effect of ZnO Nanoparticles on <i>Brassica nigra</i> Seedlings and Stem Explants: Growth Dynamics and Antioxidative Response. <i>Frontiers in Plant Science</i> , 2016, 7, 535.	1.7	197
85	Zinc impregnated cellulose nanocomposites: Synthesis, characterization and applications. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 98, 174-182.	1.9	65
86	Antioxidant, cytotoxic and antimicrobial activities of green synthesized silver nanoparticles from crude extract of <i>Bergenia ciliata</i> . <i>Future Journal of Pharmaceutical Sciences</i> , 2016, 2, 31-36.	1.1	174
87	Management of citrus waste by switching in the production of nanocellulose. <i>IET Nanobiotechnology</i> , 2016, 10, 395-399.	1.9	35
88	Novel mutations in the genes <i>TGM1</i> and <i>ALOXE3</i> underlying autosomal recessive congenital ichthyosis. <i>International Journal of Dermatology</i> , 2016, 55, 524-530.	0.5	6
89	Effect of capping agents: Structural, optical and biological properties of ZnO nanoparticles. <i>Applied Surface Science</i> , 2016, 386, 319-326.	3.1	124
90	Nutritive evaluation of fish acid silage in <i>Labeo rohita</i> fingerlings feed. <i>Journal of Applied Animal Research</i> , 2016, 44, 158-164.	0.4	14

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91	Synthesis, development and preclinical study of EDDA based ^{99m} Tc-5-fluorouracil for brain imaging. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 309, 805.	0.7	2
92	Synthesis and characterisation of metal nanoparticles and their effects on seed germination and seedling growth in commercially important <i>Eruca sativa</i> . <i>IET Nanobiotechnology</i> , 2016, 10, 134-140.	1.9	50
93	Free radical scavenging activity in in vitro-derived tissues of <i>Eruca sativa</i> . <i>Toxicology and Industrial Health</i> , 2016, 32, 98-105.	0.6	8
94	Antioxidant, anticancer and antibacterial potential of <i>Zakhm-e-hayat</i> rhizomes crude extract and fractions. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2016, 29, 895-902.	0.2	6
95	Phytotoxicity of River Chenab sediments: In vitro morphological and biochemical response of <i>Brassica napus</i> L.. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2015, 4, 74-84.	1.7	14
96	Extraction optimization of medicinally important metabolites from <i>Datura innoxia</i> Mill.: an in vitro biological and phytochemical investigation. <i>BMC Complementary and Alternative Medicine</i> , 2015, 15, 376.	3.7	124
97	Response of nitrogen assimilating enzymes during in vitro culture of <i>Argyrolobium roseum</i> . <i>Biologia (Poland)</i> , 2015, 70, 478-485.	0.8	6
98	Phytochemical and in vitro biological evaluation of <i>Artemisia scoparia</i> Waldst. & Kit for enhanced extraction of commercially significant bioactive compounds. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2015, 2, 77-86.	0.9	22
99	Review-An overview of <i>Pistacia integerrima</i> a medicinal plant species: Ethnobotany, biological activities and phytochemistry. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2015, 28, 1009-13.	0.2	9
100	In vitro propagation of <i>Caralluma tuberculata</i> and evaluation of antioxidant potential. <i>Biologia (Poland)</i> , 2014, 69, 341-349.	0.8	28
101	Ascorbic Acid and Salicylic Acid Mitigate NaCl Stress in <i>Caralluma tuberculata</i> Calli. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 968-979.	1.4	8
102	Synergistic Effects of Drought Stress and Photoperiods on Phenology and Secondary Metabolism of <i>Silybum marianum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 693-707.	1.4	63
103	The Study of Ascorbate Peroxidase, Catalase and Peroxidase During In Vitro Regeneration of <i>Argyrolobium roseum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 1070-1084.	1.4	15
104	Inhibition of human breast and colorectal cancer cells by <i>Viburnum foetens</i> L. extracts in vitro. <i>Asian Pacific Journal of Tropical Disease</i> , 2013, 3, 32-36.	0.5	15
105	Production and Characterization of Esterase in <i>Lantinus tigrinus</i> for Degradation of Polystyrene. <i>Polish Journal of Microbiology</i> , 2013, 62, 101-108.	0.6	22
106	The study of anticancer and antifungal activities of <i>Pistacia integerrima</i> extract In vitro. <i>Indian Journal of Pharmaceutical Sciences</i> , 2012, 74, 375.	1.0	17
107	Antibacterial activity of some selected medicinal plants of Pakistan. <i>BMC Complementary and Alternative Medicine</i> , 2011, 11, 52.	3.7	106
108	Regeneration of <i>Centella asiatica</i> plants from non-embryogenic cell lines and evaluation of antibacterial and antifungal properties of regenerated calli and plants. <i>Journal of Biological Engineering</i> , 2011, 5, 13.	2.0	20

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109	Expression of rol genes in transgenic soybean (<i>Glycine max L.</i>) leads to changes in plant phenotype, leaf morphology, and flowering time. <i>Plant Cell, Tissue and Organ Culture</i> , 2010, 103, 227-236.	1.2	22
110	Comparison of transgenic plant production for bacterial blight resistance in Pakistani local rice (<i>Oryza sativa L.</i>) cultivars. <i>African Journal of Biotechnology</i> , 2010, 9, 1892-1904.	0.3	6
111	Short communication. Micropropagation of two Pakistani soybean (<i>Glycine max L.</i>) cultivars from cotyledon nodes. <i>Spanish Journal of Agricultural Research</i> , 2010, 8, 448.	0.3	9
112	Soybean: Plant Manipulation to Agrobacterium Mediated Transformation. , 0, , .		1