

Muhammad Arshad

List of Publications by Year in descending order

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99
papers

3,600
citations

147726

31
h-index

143943

57
g-index

99
all docs

99
docs citations

99
times ranked

4936
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives of bacterial ACC deaminase in phytoremediation. Trends in Biotechnology, 2007, 25, 356-362.	4.9	270
2	Chitosan: A potential biopolymer for wound management. International Journal of Biological Macromolecules, 2017, 102, 380-383.	3.6	264
3	Microbial biotechnology for decolorization of textile wastewaters. Reviews in Environmental Science and Biotechnology, 2015, 14, 73-92.	3.9	190
4	Rhizobacteria Capable of Producing ACC deaminase May Mitigate Salt Stress in Wheat. Soil Science Society of America Journal, 2010, 74, 533-542.	1.2	185
5	Simple hydrothermal synthesis of very-long and thin silver nanowires and their application in high quality transparent electrodes. Journal of Materials Chemistry A, 2016, 4, 11365-11371.	5.2	154
6	Bioremediation and Phytoremediation of Pesticides: Recent Advances. Critical Reviews in Environmental Science and Technology, 2009, 39, 843-907.	6.6	142
7	Wound healing potential of curcumin cross-linked chitosan/polyvinyl alcohol. International Journal of Biological Macromolecules, 2019, 140, 871-876.	3.6	114
8	Detoxification of azo dyes by bacterial oxidoreductase enzymes. Critical Reviews in Biotechnology, 2016, 36, 639-651.	5.1	109
9	Butterfly cluster like lamellar BiOBr/TiO ₂ nanocomposite for enhanced sunlight photocatalytic mineralization of aqueous ciprofloxacin. Science of the Total Environment, 2019, 665, 668-677.	3.9	108
10	Bioremediation of selenium-contaminated sediments and water. BioFactors, 2001, 14, 241-254.	2.6	105
11	Electricity generation from biogas of poultry waste: An assessment of potential and feasibility in Pakistan. Renewable and Sustainable Energy Reviews, 2018, 81, 1241-1246.	8.2	87
12	Effectiveness of halo-tolerant, auxin producing Pseudomonas and Rhizobium strains to improve osmotic stress tolerance in mung bean (Vigna radiata L.). Brazilian Journal of Microbiology, 2013, 44, 1341-1348.	0.8	84
13	Zn-doped SiO ₂ nanoparticles preparation and characterization under the effect of various solvents: Antibacterial, antifungal and photocatalytic performance evaluation. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 176-183.	1.7	80
14	Influence of different solvents on portrayal and photocatalytic activity of tin-doped zinc oxide nanoparticles. Journal of Molecular Liquids, 2018, 260, 272-278.	2.3	78
15	Abiotic and Biotic Processes Governing the Fate of Phenylurea Herbicides in Soils: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 1947-1998.	6.6	77
16	Cogeneration through bagasse: A renewable strategy to meet the future energy needs. Renewable and Sustainable Energy Reviews, 2016, 54, 732-737.	8.2	71
17	Enhanced ethanol production at commercial scale from molasses using high gravity technology by mutant S. cerevisiae. Brazilian Journal of Microbiology, 2017, 48, 403-409.	0.8	64
18	Preparation, characterization and evaluation of glycerol plasticized chitosan/PVA blends for burn wounds. International Journal of Biological Macromolecules, 2019, 124, 155-162.	3.6	61

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19	The stability of textile azo dyes in soil and their impact on microbial phospholipid fatty acid profiles. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 163-168.	2.9	57
20	Conjugated NiO@ZnO/GO nanocomposite powder for applications in supercapacitor electrodes material. <i>International Journal of Energy Research</i> , 2020, 44, 3192-3202.	2.2	57
21	Potential of newly isolated bacterial strains for simultaneous removal of hexavalent chromium and reactive black 5 azo dye from tannery effluent. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1506-1513.	1.6	55
22	Screening of soil fungi for in vitro degradation of endosulfan. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 939-945.	1.7	47
23	Stabilized fabrication of anatase-TiO ₂ /FeS ₂ (pyrite) semiconductor composite nanocrystals for enhanced solar light-mediated photocatalytic degradation of methylene blue. <i>RSC Advances</i> , 2018, 8, 11935-11945.	1.7	47
24	Photocatalytic Dehydrogenation of Formic Acid on CdS Nanorods through Ni and Co Redox Mediation under Mild Conditions. <i>ChemSusChem</i> , 2018, 11, 2587-2592.	3.6	44
25	Economizing the use of nitrogen fertilizer in wheat production through enriched compost. <i>Renewable Agriculture and Food Systems</i> , 2008, 23, 243-249.	0.8	43
26	The use of vertical electrical sounding resistivity method for the location of low salinity groundwater for irrigation in Chaj and Rachna Doabs. <i>Environmental Earth Sciences</i> , 2010, 60, 1113-1129.	1.3	42
27	Effectiveness of Organic-/Bio-Fertilizer Supplemented with Chemical Fertilizers for Improving Soil Water Retention, Aggregate Stability, Growth and Nutrient Uptake of Maize (<i>Zea mays</i> L.). <i>Agroecology and Sustainable Food Systems</i> , 2008, 31, 57-77.	0.9	41
28	Enrichment and Isolation of Endosulfan-Degrading Microorganisms. <i>Journal of Environmental Quality</i> , 2003, 32, 47.	1.0	41
29	Glycyrrhizic acid-loaded pH-sensitive poly-(lactic-co-glycolic acid) nanoparticles for the amelioration of inflammatory bowel disease. <i>Nanomedicine</i> , 2019, 14, 1945-1969.	1.7	36
30	Toxicity and resistance of field collected <i>Musca domestica</i> (Diptera: Muscidae) against insect growth regulator insecticides. <i>Parasitology Research</i> , 2016, 115, 1385-1390.	0.6	35
31	Superior shuttling of lithium and sodium ions in manganese-doped titania @ functionalized multiwall carbon nanotube anodes. <i>Nanoscale</i> , 2017, 9, 9859-9871.	2.8	33
32	Synthesis and characterization of SiO ₂ doped Fe ₂ O ₃ nanoparticles: Photocatalytic and antimicrobial activity evaluation. <i>Journal of Molecular Structure</i> , 2019, 1180, 244-250.	1.8	32
33	Simultaneous Femtomolar Detection of Paracetamol, Diclofenac, and Orphenadrine Using a Carbon Nanotube/Zinc Oxide Nanoparticle-Based Electrochemical Sensor. <i>ACS Applied Nano Materials</i> , 2021, 4, 4699-4712.	2.4	32
34	Farmers' perceptions of insect pests and pest management practices in Bt cotton in the Punjab, Pakistan. <i>International Journal of Pest Management</i> , 2009, 55, 1-10.	0.9	31
35	Kinetics and Thermodynamics of Ethanol Production by <i>Saccharomyces cerevisiae</i> MLD10 Using Molasses. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 2455-2464.	1.4	30
36	Potassium doped methylammonium lead iodide (MAPbI ₃) thin films as a potential absorber for perovskite solar cells; structural, morphological, electronic and optoelectric properties. <i>Physica B: Condensed Matter</i> , 2017, 522, 57-65.	1.3	30

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37	Effect of compost enriched with N and L-tryptophan on soil and maize. <i>Agronomy for Sustainable Development</i> , 2008, 28, 299-305.	2.2	29
38	Fungal Biomass Protein Production from <i>Trichoderma harzianum</i> Using Rice Polishing. <i>BioMed Research International</i> , 2017, 2017, 1-9.	0.9	28
39	Mutagenicity, cytotoxic and antioxidant activities of <i>Ricinus communis</i> different parts. <i>Chemistry Central Journal</i> , 2018, 12, 3.	2.6	26
40	Development of Biodegradable Bio-Based Composite for Bone Tissue Engineering: Synthesis, Characterization and In Vitro Biocompatible Evaluation. <i>Polymers</i> , 2021, 13, 3611.	2.0	25
41	Anaerobic co-digestion of municipal solid organic waste with melon residues to enhance biodegradability and biogas production. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 388-395.	1.6	24
42	Manipulation of Ethylene Synthesis in Roots Through Bacterial ACC Deaminase for Improving Nodulation in Legumes. <i>Critical Reviews in Plant Sciences</i> , 2011, 30, 279-291.	2.7	23
43	Precursor (L-tryptophan)-Inoculum (<i>Azotobacter</i>) Interaction for Improving Yields and Nitrogen Uptake of Maize. <i>Journal of Plant Nutrition</i> , 2005, 28, 805-817.	0.9	22
44	Biotechnological applications of sugarcane bagasse and sugar beet molasses. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 1489-1501.	2.9	22
45	Effect of an auxin precursor tryptophan and <i>Azotobacter</i> inoculation on yield and chemical composition of potato under fertilized conditions. <i>Journal of Plant Nutrition</i> , 1997, 20, 745-752.	0.9	21
46	Muscilage characterization, biochemical and enzymatic activities of laser irradiated <i>Lagenaria siceraria</i> seedlings. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 344-352.	1.7	21
47	Biotreatment of simulated tannery wastewater containing Reactive Black 5, aniline and CrVI using a biochar packed bioreactor. <i>RSC Advances</i> , 2015, 5, 106272-106279.	1.7	20
48	Characterization and Purification of Membrane-Bound Azoreductase From Azo Dye Degrading <i>Shewanella</i> sp. Strain IFN4. <i>Clean - Soil, Air, Water</i> , 2016, 44, 1523-1530.	0.7	20
49	Ethanol production from molasses: Environmental and socioeconomic prospects in Pakistan: Feasibility and economic analysis. <i>Environmental Technology and Innovation</i> , 2019, 14, 100317.	3.0	20
50	Paederus beetles: the agent of human dermatitis. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2015, 21, 5.	0.8	18
51	Regional Groundwater Quality Management through Hydrogeological Modeling in LCC, West Faisalabad, Pakistan. <i>Journal of Chemistry</i> , 2017, 2017, 1-16.	0.9	17
52	Visfatin Plays a Significant Role in Alleviating Lipopolysaccharide-Induced Apoptosis and Autophagy Through PI3K/AKT Signaling Pathway During Acute Lung Injury in Mice. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2019, 67, 249-261.	1.0	17
53	Concentration dependent growth/non-growth linked kinetics of endosulfan biodegradation by <i>Pseudomonas aeruginosa</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 853-858.	1.7	16
54	Layer-by-layer fabrication of nacre inspired epoxy/MMT multilayered composites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46079.	1.3	14

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55	Efficacy of biorational insecticides against Bemisia tabaci (Genn.) and their selectivity for its parasitoid Encarsia formosa Gahan on Bt cotton. Scientific Reports, 2021, 11, 2101.	1.6	14
56	Effect of trace metals and electron shuttle on simultaneous reduction of reactive black-5 azo dye and hexavalent chromium in liquid medium by Pseudomonas sp.. Chemosphere, 2015, 138, 895-900.	4.2	13
57	Bioactivity of Variant Molecular Weight Chitosan Against Drug-Resistant Bacteria Isolated from Human Wounds. Microbial Drug Resistance, 2017, 23, 958-965.	0.9	13
58	Evaluating groundwater quality for irrigated agriculture: spatio-temporal investigations using GIS and geostatistics in Punjab, Pakistan. Arabian Journal of Geosciences, 2017, 10, 1.	0.6	13
59	Graphene Oxide-TiO ₂ Nanocomposite Films for Electron Transport Applications. Journal of Electronic Materials, 2018, 47, 3749-3756.	1.0	12
60	2-Keto-4-methylthiobutyric acid-dependent biosynthesis of ethylene in soil. Biology and Fertility of Soils, 2003, 37, 130-135.	2.3	11
61	Reversible Tuning of Ferromagnetism and Resistive Switching in ZnO/Cu Thin Films. ACS Omega, 2017, 2, 8810-8817.	1.6	11
62	The implication of CRISPR/Cas9 genome editing technology in combating human oncoviruses. Journal of Medical Virology, 2019, 91, 1-13.	2.5	11
63	Green and Eco-Friendly Removal of Mycotoxins with Organo-Bentonites; Isothermal, Kinetic, and Thermodynamic Studies. Clean - Soil, Air, Water, 2020, 48, 1900427.	0.7	10
64	Estimation of leaf water content from mid- and thermal-infrared spectra by coupling genetic algorithm and partial least squares regression. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	8
65	Salmonella infection may alter the expression of toll like receptor 4 and immune related cells in chicken bursa of Fabricius. Microbial Pathogenesis, 2018, 121, 59-64.	1.3	7
66	Enhancing Profitability of Ethanol Fermentation through Gamma Ray Mutagenesis of Saccharomyces cerevisiae. Polish Journal of Environmental Studies, 2018, 28, 35-41.	0.6	7
67	Environmental Impacts of Ethanol Production System. , 2021, , 205-223.		7
68	Modeling approach for the assessment of recharge contribution to groundwater from surface irrigation conveyance system. Irrigation and Drainage Systems, 2008, 22, 67-77.	0.5	6
69	Quantifying the Effect of Temperature on Ammonium Bicarbonate Diethylene Triamine Penta-acetic Acid Extractable Potassium and Developing a Novel Correction Factor to Express the Data. Communications in Soil Science and Plant Analysis, 2008, 39, 3047-3056.	0.6	6
70	EVALUATING POTASSIUM-USE-EFFICIENT COTTON GENOTYPES USING DIFFERENT RANKING METHODS. Journal of Plant Nutrition, 2011, 34, 1957-1972.	0.9	6
71	Investigation of Rbx(MA) _{1-x} PbI ₃ (x=0, 0.1, 0.3, 0.5, 0.75, 1) perovskites as a potential source of P- and N-type materials for PN-junction solar cell. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	6
72	High-yield synthesis of silver nanowires for transparent conducting PET films. Beilstein Journal of Nanotechnology, 2021, 12, 624-632.	1.5	6

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73	Investigation of structural and electrochemical performance of Ru-substituted LiFePO ₄ cathode material: an improvement of the capacity and rate performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6670-6680.	1.1	6
74	Relationship of oxidative stress with elevated level of DNA damage and homocysteine in cardiovascular disease patients. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2016, 29, 2297-2302.	0.2	6
75	An Overview of Biofuel. , 2018, , 1-37.		5
76	Health Concerns Associated with Biofuel Production. , 2018, , 97-105.		5
77	Effect of Phosphorous Ion Implantation on the Surface, Crystal Structure, Mechanical, and Electrochemical Properties of Bioresorbable Magnesium for Biomedical Applications. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 7695-7704.	1.2	5
78	Synthesis and characterization of DGEBA composites reinforced with Cu/Ag modified carbon nanotubes. <i>Heliyon</i> , 2019, 5, e01733.	1.4	4
79	Biogas: A promising clean energy technology. , 2021, , 91-120.		4
80	Management of house fly, <i>Musca domestica</i> L. (Muscidae: Diptera), through botanical baits. <i>Revista Brasileira De Entomologia</i> , 2020, 64, .	0.1	4
81	Prevalence and management of aphids (Hemiptera: Aphididae) in different wheat genotypes and their impact on yield and related traits. <i>PLoS ONE</i> , 2021, 16, e0257952.	1.1	4
82	Comparative efficacy of ANN and ANFIS models in estimating biosurfactant production produced by <i>Klebseilla</i> sp. FKOD36. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 353-363.	1.9	3
83	Convolutional Neural Network based Regression for Leaf Water Content Estimation. , 2019, , .		3
84	Effect of plant spacing on incidence of rice planthoppers in transplanted rice crop. <i>International Journal of Tropical Insect Science</i> , 2021, 41, 575-585.	0.4	3
85	Termiticide activities of wood extractives of <i>Ziziphus mauritiana</i> (Rhamnaceae) against subterranean termites under field conditions. <i>Revista Brasileira De Entomologia</i> , 2020, 64, .	0.1	3
86	Assessment of wheat productivity responses and soil health dynamics under brackish ground water. <i>Saudi Journal of Biological Sciences</i> , 2022, 29, 793-803.	1.8	3
87	Effect of chromium-doping on structure and opto-electronics properties of nanostructured indium tin oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	3
88	Water Sustainability Issues in Biofuel Production. , 2018, , 55-76.		2
89	Future Biofuel Production and Water Usage. , 2018, , 107-121.		2
90	Ecofuel future prospect and community impact. , 2019, , 459-479.		2

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91	Lignocellulosic Biomass and Microbial Genome Engineering for Sustainable Ethanol Production: An Overview. , 2021, , 87-112.		2
92	Impact of Biofuel™s Production on Ground Water. , 2018, , 77-96.		1
93	In Vitro Studies for the Evaluation of Insecticidal Potential of the Venom of Endoparasitic Wasp <i>Aenasius arizonensis</i> (Girault) (Hymenoptera, Encyrtidae). International Journal of Peptide Research and Therapeutics, 2021, 27, 47-54.	0.9	1
94	Dusky cotton bug <i>Oxycarenus hyalinipennis</i> Costa (Lygaeidae: Hemiptera) loss assessment in cotton. International Journal of Tropical Insect Science, 2021, 41, 1163-1167.	0.4	1
95	Susceptibility of <i>Helicoverpa armigera</i> Hübner (Lepidoptera: Noctuidae) on detached plant parts of transgenic and non-transgenic cotton. International Journal of Tropical Insect Science, 0, , 1.	0.4	1
96	Habitat characterization of <i>Aedes albopictus</i> . International Journal of Tropical Insect Science, 0, , 1.	0.4	1
97	Designing the poly[1,5-bis(N-pyrrolyl)pentane as a new horizon of polypyrrole paradigm with its structural and optical highlights. Colloid and Polymer Science, 2019, 297, 1437-1443.	1.0	0
98	Demographic and morphometric features of pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) (Lepidoptera: Gelechiidae) on four host plants. International Journal of Tropical Insect Science, 2021, 41, 131-135.	0.4	0
99	Sustainable Ethanol Production: An Overview. , 2021, , 1-14.		0