

Muhammad Arshad

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.

97
papers

2,554
citations

27
h-index

48
g-index

99
ext. papers

3,015
ext. citations

4.6
avg, IF

5.37
L-index

#	Paper	IF	Citations
97	Perspectives of bacterial ACC deaminase in phytoremediation. <i>Trends in Biotechnology</i> , 2007 , 25, 356-62	15.1	236
96	Chitosan: A potential biopolymer for wound management. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 380-383	7.9	188
95	Rhizobacteria Capable of Producing ACC-deaminase May Mitigate Salt Stress in Wheat. <i>Soil Science Society of America Journal</i> , 2010 , 74, 533-542	2.5	145
94	Microbial biotechnology for decolorization of textile wastewaters. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 73-92	13.9	128
93	Bioremediation and Phytoremediation of Pesticides: Recent Advances. <i>Critical Reviews in Environmental Science and Technology</i> , 2009 , 39, 843-907	11.1	114
92	Simple hydrothermal synthesis of very-long and thin silver nanowires and their application in high quality transparent electrodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11365-11371	13	105
91	Bioremediation of selenium-contaminated sediments and water. <i>BioFactors</i> , 2001 , 14, 241-54	6.1	90
90	Detoxification of azo dyes by bacterial oxidoreductase enzymes. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 639-51	9.4	78
89	Butterfly cluster like lamellar BiOBr/TiO nanocomposite for enhanced sunlight photocatalytic mineralization of aqueous ciprofloxacin. <i>Science of the Total Environment</i> , 2019 , 665, 668-677	10.2	77
88	Effectiveness of halo-tolerant, auxin producing Pseudomonas and Rhizobium strains to improve osmotic stress tolerance in mung bean (<i>Vigna radiata</i> L.). <i>Brazilian Journal of Microbiology</i> , 2013 , 44, 1341-8	2.3	64
87	Zn-doped SiO nanoparticles preparation and characterization under the effect of various solvents: Antibacterial, antifungal and photocatalytic performance evaluation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 185, 176-183	6.7	63
86	Influence of different solvents on portrayal and photocatalytic activity of tin-doped zinc oxide nanoparticles. <i>Journal of Molecular Liquids</i> , 2018 , 260, 272-278	6	61
85	Abiotic and Biotic Processes Governing the Fate of Phenylurea Herbicides in Soils: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 1947-1998	11.1	59
84	Wound healing potential of curcumin cross-linked chitosan/polyvinyl alcohol. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 871-876	7.9	56
83	Enhanced ethanol production at commercial scale from molasses using high gravity technology by mutant <i>S. cerevisiae</i> . <i>Brazilian Journal of Microbiology</i> , 2017 , 48, 403-409	2.2	54
82	Electricity generation from biogas of poultry waste: An assessment of potential and feasibility in Pakistan. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 1241-1246	16.2	53
81	Cogeneration through bagasse: A renewable strategy to meet the future energy needs. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 732-737	16.2	53

80	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	3.5	42
79	Screening of soil fungi for in vitro degradation of endosulfan. <i>World Journal of Microbiology and Biotechnology</i> , 2007 , 23, 939-945	4.4	41
78	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, 163-8	7	40
77	Preparation, characterization and evaluation of glycerol plasticized chitosan/PVA blends for burn wounds. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 155-162	7.9	39
76	Economizing the use of nitrogen fertilizer in wheat production through enriched compost. <i>Renewable Agriculture and Food Systems</i> , 2008 , 23, 243-249	1.8	33
75	Toxicity and resistance of field collected <i>Musca domestica</i> (Diptera: Muscidae) against insect growth regulator insecticides. <i>Parasitology Research</i> , 2016 , 115, 1385-90	2.4	31
74	Enrichment and Isolation of Endosulfan-Degrading Microorganisms 2003 , 32, 47		30
73	Conjugated NiO-ZnO/GO nanocomposite powder for applications in supercapacitor electrodes material. <i>International Journal of Energy Research</i> , 2020 , 44, 3192-3202	4.5	29
72	Kinetics and thermodynamics of ethanol production by <i>Saccharomyces cerevisiae</i> MLD10 using molasses. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 2455-64	3.2	28
71	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	2.9	28
70	Superior shuttling of lithium and sodium ions in manganese-doped titania @ functionalized multiwall carbon nanotube anodes. <i>Nanoscale</i> , 2017 , 9, 9859-9871	7.7	26
69	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		26
68	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	3.4	26
67	Photocatalytic Dehydrogenation of Formic Acid on CdS Nanorods through Ni and Co Redox Mediation under Mild Conditions. <i>ChemSusChem</i> , 2018 , 11, 2587-2592	8.3	25
66	Stabilized fabrication of anatase-TiO ₂ /FeS (pyrite) semiconductor composite nanocrystals for enhanced solar light-mediated photocatalytic degradation of methylene blue.. <i>RSC Advances</i> , 2018 , 8, 11935-11945	3.7	23
65	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	2.8	22
64	Mutagenicity, cytotoxic and antioxidant activities of <i>Ricinus communis</i> different parts. <i>Chemistry Central Journal</i> , 2018 , 12, 3		21
63	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	5.6	21

62	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	1.5	21
61	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	3.4	20
60	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	5.6	19
59	Effect of compost enriched with N and L-tryptophan on soil and maize. <i>Agronomy for Sustainable Development</i> , 2008 , 28, 299-305	6.8	19
58	Fungal Biomass Protein Production from Using Rice Polishing. <i>BioMed Research International</i> , 2017 , 2017, 6232793	3	18
57	Precursor (L-tryptophan)-Inoculum (Azotobacter) Interaction for Improving Yields and Nitrogen Uptake of Maize. <i>Journal of Plant Nutrition</i> , 2005 , 28, 805-817	2.3	18
56	Characterization and Purification of Membrane-Bound Azoreductase From Azo Dye Degrading Shewanella sp. Strain IFN4. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 1523-1530	1.6	18
55	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	3.7	16
54	Concentration dependent growth/non-growth linked kinetics of endosulfan biodegradation by Pseudomonas aeruginosa. <i>World Journal of Microbiology and Biotechnology</i> , 2009 , 25, 853-858	4.4	16
53	Mucilage characterization, biochemical and enzymatic activities of laser irradiated Lagenaria siceraria seedlings. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 173, 344-352	6.7	14
52	Ethanol production from molasses: Environmental and socioeconomic prospects in Pakistan: Feasibility and economic analysis. <i>Environmental Technology and Innovation</i> , 2019 , 14, 100317	7	14
51	Effect of an auxin precursor tryptophan and Azotobacter inoculation on yield and chemical composition of potato under fertilized conditions. <i>Journal of Plant Nutrition</i> , 1997 , 20, 745-752	2.3	14
50	Regional Groundwater Quality Management through Hydrogeological Modeling in LCC, West Faisalabad, Pakistan. <i>Journal of Chemistry</i> , 2017 , 2017, 1-16	2.3	11
49	Layer-by-layer fabrication of nacre inspired epoxy/MMT multilayered composites. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46079	2.9	11
48	Bioactivity of Variant Molecular Weight Chitosan Against Drug-Resistant Bacteria Isolated from Human Wounds. <i>Microbial Drug Resistance</i> , 2017 , 23, 958-965	2.9	10
47	Paederus beetles: the agent of human dermatitis. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2015 , 21, 5	2.2	10
46	Evaluating groundwater quality for irrigated agriculture: spatio-temporal investigations using GIS and geostatistics in Punjab, Pakistan. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	10
45	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. <i>Chemosphere</i> , 2015 , 138, 895-900	8.4	10

44	2-Keto-4-methylthiobutyric acid-dependent biosynthesis of ethylene in soil. <i>Biology and Fertility of Soils</i> , 2003 , 37, 130-135	6.1	10
43	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	4	9
42	Biotechnological applications of sugarcane bagasse and sugar beet molasses. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	9
41	The implication of CRISPR/Cas9 genome editing technology in combating human oncoviruses. <i>Journal of Medical Virology</i> , 2019 , 91, 1-13	19.7	8
40	Development of Biodegradable Bio-Based Composite for Bone Tissue Engineering: Synthesis, Characterization and In Vitro Biocompatible Evaluation. <i>Polymers</i> , 2021 , 13,	4.5	8
39	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	5.6	8
38	Graphene Oxide//TiO ₂ Nanocomposite Films for Electron Transport Applications. <i>Journal of Electronic Materials</i> , 2018 , 47, 3749-3756	1.9	7
37	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. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	6
36	Estimation of leaf water content from mid- and thermal-infrared spectra by coupling genetic algorithm and partial least squares regression. <i>Journal of Applied Remote Sensing</i> , 2018 , 12, 1	1.4	6
35	Salmonella infection may alter the expression of toll like receptor 4 and immune related cells in chicken bursa of Fabricius. <i>Microbial Pathogenesis</i> , 2018 , 121, 59-64	3.8	5
34	Reversible Tuning of Ferromagnetism and Resistive Switching in ZnO/Cu Thin Films. <i>ACS Omega</i> , 2017 , 2, 8810-8817	3.9	5
33	Green and Eco-Friendly Removal of Mycotoxins with Organo-Bentonites; Isothermal, Kinetic, and Thermodynamic Studies. <i>Clean - Soil, Air, Water</i> , 2020 , 48, 1900427	1.6	5
32	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	0.4	5
31	EVALUATING POTASSIUM-USE-EFFICIENT COTTON GENOTYPES USING DIFFERENT RANKING METHODS. <i>Journal of Plant Nutrition</i> , 2011 , 34, 1957-1972	2.3	4
30	Enhancing Profitability of Ethanol Fermentation through Gamma Ray Mutagenesis of <i>Saccharomyces cerevisiae</i> . <i>Polish Journal of Environmental Studies</i> , 2018 , 28, 35-41	2.3	4
29	Management of house fly, <i>Musca domestica</i> L. (Muscidae: Diptera), through botanical baits. <i>Revista Brasileira De Entomologia</i> , 2020 , 64,	0.9	4
28	An Overview of Biofuel 2018 , 1-37		4
27	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	3.5	3

26	Modeling approach for the assessment of recharge contribution to groundwater from surface irrigation conveyance system. <i>Irrigation and Drainage Systems</i> , 2008 , 22, 67-77		3
25	Health Concerns Associated with Biofuel Production 2018 , 97-105		3
24	Efficacy of biorational insecticides against Bemisia tabaci (Genn.) and their selectivity for its parasitoid Encarsia formosa Gahan on Bt cotton. <i>Scientific Reports</i> , 2021 , 11, 2101	4.9	3
23	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. <i>Communications in Soil Science and Plant Analysis</i> , 2008 , 39, 3047-3056	1.5	2
22	Environmental Impacts of Ethanol Production System 2021 , 205-223		2
21	Synthesis and characterization of DGEBA composites reinforced with Cu/Ag modified carbon nanotubes. <i>Heliyon</i> , 2019 , 5, e01733	3.6	1
20	Ecofuel future prospect and community impact 2019 , 459-479		1
19	Lignocellulosic Biomass and Microbial Genome Engineering for Sustainable Ethanol Production: An Overview 2021 , 87-112		1
18	Convolutional Neural Network based Regression for Leaf Water Content Estimation 2019 ,		1
17	In Vitro Studies for the Evaluation of Insecticidal Potential of the Venom of Endoparasitic Wasp Aenasius arizonensis (Girault) (Hymenoptera, Encyrtidae). <i>International Journal of Peptide Research and Therapeutics</i> , 2021 , 27, 47-54	2.1	1
16	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	1	1
15	Future Biofuel Production and Water Usage 2018 , 107-121		1
14	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	2.1	0
13	Assessment of wheat productivity responses and soil health dynamics under brackish ground water.. <i>Saudi Journal of Biological Sciences</i> , 2022 , 29, 793-803	4	0
12	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	3.7	0
11	Habitat characterization of Aedes albopictus. <i>International Journal of Tropical Insect Science</i> ,1	1	0
10	High-yield synthesis of silver nanowires for transparent conducting PET films. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 624-632	3	0
9	Dusky cotton bug Oxycarenus hyalinipennis Costa (Lygaeidae: Hemiptera) loss assessment in cotton. <i>International Journal of Tropical Insect Science</i> , 2021 , 41, 1163-1167	1	0

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| 8 | 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> ,1 | 1.6 | 0 |
| 7 | Designing the poly[1,5-bis(N-pyrrolyl)pentane as a new horizon of polypyrrole paradigm with its structural and optical highlights. <i>Colloid and Polymer Science</i> , 2019 , 297, 1437-1443 | 2.4 | |
| 6 | Sustainable Ethanol Production: An Overview 2021 , 1-14 | | |
| 5 | Demographic and morphometric features of pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) (Lepidoptera: Gelechiidae) on four host plants. <i>International Journal of Tropical Insect Science</i> , 2021 , 41, 131-135 | 1 | |
| 4 | Biogas: A promising clean energy technology 2021 , 91-120 | | |
| 3 | Water Sustainability Issues in Biofuel Production 2018 , 55-76 | | |
| 2 | Impact of Biofuel Production on Ground Water 2018 , 77-96 | | |
| 1 | Susceptibility of <i>Helicoverpa armigera</i> Hübner (Lepidoptera: Noctuidae) on detached plant parts of transgenic and non-transgenic cotton. <i>International Journal of Tropical Insect Science</i> ,1 | 1 | |