

Muhammad Irfan

List of Publications by Year in descending order

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88
papers

1,324
citations

393982

19
h-index

433756

31
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88
all docs

88
docs citations

88
times ranked

1360
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction and identification of bioactive compounds (eicosane and dibutyl phthalate) produced by <i>Streptomyces</i> strain KX852460 for the biological control of <i>Rhizoctonia solani</i> AG-3 strain KX852461 to control target spot disease in tobacco leaf. <i>AMB Express</i> , 2017, 7, 54.	1.4	110
2	Isolation and screening of cellulolytic bacteria from soil and optimization of cellulase production and activity. <i>Turkish Journal of Biochemistry</i> , 2012, 37, 287-293.	0.3	74
3	One-factor-at-a-time (OFAT) optimization of xylanase production from <i>Trichoderma viride</i> -IR05 in solid-state fermentation. <i>Journal of Radiation Research and Applied Sciences</i> , 2014, 7, 317-326.	0.7	69
4	Optimization of process parameters for xylanase production by <i>Bacillus</i> sp. in submerged fermentation. <i>Journal of Radiation Research and Applied Sciences</i> , 2016, 9, 139-147.	0.7	64
5	Exploring the new potential antiviral constituents of <i>Moringa oleifera</i> for SARS-COV-2 pathogenesis: An in silico molecular docking and dynamic studies. <i>Chemical Physics Letters</i> , 2021, 767, 138379.	1.2	58
6	Effect of alkaline pretreatment on delignification of wheat straw. <i>Natural Product Research</i> , 2015, 29, 125-131.	1.0	46
7	Carboxymethyl cellulase production optimization from newly isolated thermophilic <i>Bacillus subtilis</i> K-18 for saccharification using response surface methodology. <i>AMB Express</i> , 2017, 7, 29.	1.4	44
8	Current status of beta-thalassemia and its treatment strategies. <i>Molecular Genetics & Genomic Medicine</i> , 2021, 9, e1788.	0.6	44
9	Statistical Optimization of Saccharification of Alkali Pretreated Wheat Straw for Bioethanol Production. <i>Waste and Biomass Valorization</i> , 2016, 7, 1389-1396.	1.8	42
10	RSM based optimization of nutritional conditions for cellulase mediated Saccharification by <i>Bacillus cereus</i> . <i>Journal of Biological Engineering</i> , 2018, 12, 7.	2.0	40
11	Ethanol production from agricultural wastes using <i>Sacchromyces cerevisiae</i> . <i>Brazilian Journal of Microbiology</i> , 2014, 45, 457-465.	0.8	39
12	Cardiac toxicity of heavy metals (cadmium and mercury) and pharmacological intervention by vitamin C in rabbits. <i>Environmental Science and Pollution Research</i> , 2020, 27, 29266-29279.	2.7	39
13	Pectinase Production from <i>Schizophyllum commune</i> Through Central Composite Design Using Citrus Waste and Its Immobilization for Industrial Exploitation. <i>Waste and Biomass Valorization</i> , 2019, 10, 2527-2536.	1.8	35
14	Production, purification and characterization of novel beta glucosidase from newly isolated <i>Penicillium simplicissimum</i> H-11 in submerged fermentation. <i>EXCLI Journal</i> , 2013, 12, 528-40.	0.5	35
15	Potato peels: A potential food waste for amylase production. <i>Journal of Food Process Engineering</i> , 2017, 40, e12512.	1.5	31
16	Regulation of MYB Transcription Factors of Anthocyanin Synthesis in Lily Flowers. <i>Frontiers in Plant Science</i> , 2021, 12, 761668.	1.7	30
17	Application of response surface methodology for optimization of medium components for the production of secondary metabolites by <i>Streptomyces diastatochromogenes</i> KX852460. <i>AMB Express</i> , 2017, 7, 96.	1.4	26
18	Hispidulin: A novel natural compound with therapeutic potential against human cancers. <i>Phytotherapy Research</i> , 2021, 35, 771-789.	2.8	26

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19	Kinetics Study of Extracellular Detergent Stable Alkaline Protease from <i>Rhizopus oryzae</i> . Brazilian Archives of Biology and Technology, 2015, 58, 175-184.	0.5	21
20	Screening, identification, optimization of fermentation conditions, and extraction of secondary metabolites for the biocontrol of <i>Rhizoctonia Solani</i> AG-3. Biotechnology and Biotechnological Equipment, 2017, 31, 91-98.	0.5	17
21	Effect of Long-Term Fertilization on Ammonia-Oxidizing Microorganisms and Nitrification in Brown Soil of Northeast China. Frontiers in Microbiology, 2020, 11, 622454.	1.5	17
22	Valorization of banana peels waste into biovanillin and optimization of process parameters using submerged fermentation. Biocatalysis and Agricultural Biotechnology, 2021, 36, 102154.	1.5	17
23	Purification and Characterization of beta 1,4-Glucanases from <i>Penicillium simplicissimum</i> H-11. BioResources, 2013, 8, .	0.5	13
24	Production of bioethanol from sugarcane bagasse using yeast strains: A kinetic study. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 364-372.	1.2	13
25	Integrated metabolic profiling and transcriptome analysis of pigment accumulation in diverse petal tissues in the lily cultivar 'Vivian'. BMC Plant Biology, 2020, 20, 446.	1.6	13
26	Bioethanol Production Optimization from KOH-Pretreated <i>Bombax ceiba</i> Using <i>Saccharomyces cerevisiae</i> through Response Surface Methodology. Fermentation, 2022, 8, 148.	1.4	13
27	Production, purification, and characterization of carboxymethyl cellulase from novel strain <i>Bacillus megaterium</i> . Environmental Progress and Sustainable Energy, 2016, 35, 1741-1749.	1.3	12
28	Alpha Solanine: A Novel Natural Bioactive Molecule with Anticancer Effects in Multiple Human Malignancies. Nutrition and Cancer, 2021, 73, 1541-1552.	0.9	12
29	Purification and kinetics study of thermostable cellulase free Xylanase from <i>Bacillus subtilis</i> . Protein and Peptide Letters, 2013, 20, 1225-1231.	0.4	12
30	Engineering drought tolerance in plants by modification of transcription and signalling factors. Biotechnology and Biotechnological Equipment, 2020, 34, 781-789.	0.5	11
31	Role of core structural genes for flavonoid biosynthesis and transcriptional factors in flower color of plants. Biotechnology and Biotechnological Equipment, 2021, 35, 1214-1229.	0.5	11
32	Thermostable trypsin-like protease by <i>Penicillium roqueforti</i> secreted in cocoa shell fermentation: Production optimization, characterization, and application in milk clotting. Biotechnology and Applied Biochemistry, 2022, 69, 2069-2080.	1.4	11
33	Production of ethanol from alkali-pretreated sugarcane bagasse under the influence of different process parameters. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2015, 8, 358-362.	1.1	10
34	A comprehensive review on anticancer mechanism of bazedoxifene. Biotechnology and Applied Biochemistry, 2022, 69, 767-782.	1.4	10
35	Responses of Arbuscular Mycorrhizal Fungi Diversity and Community to 41-Year Rotation Fertilization in Brown Soil Region of Northeast China. Frontiers in Microbiology, 2021, 12, 742651.	1.5	10
36	Cellulase Production by <i>Trichoderma viride</i> in Submerged Fermentation using Response Surface Methodology. Punjab University Journal of Zoology, 2020, 35, .	0.4	10

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37	Vitamin K: A novel cancer chemosensitizer. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 2641-2657.	1.4	10
38	AnDHN, a Dehydrin Protein From <i>Ammopiptanthus nanus</i> , Mitigates the Negative Effects of Drought Stress in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 788938.	1.7	10
39	Statistical modeling and optimization of pretreatment of <i>Bombax ceiba</i> with KOH through Box-Behnken design of response surface methodology. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 1114-1124.	1.2	9
40	Statistical optimization of cultural parameters for the optimized production of alginic acid using apple (<i>Malus domestica</i>) peels through solid-state fermentation. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 1269-1277.	2.9	9
41	Statistical Optimization of Xylanase from <i>Bacillus licheniformis</i> Using Banana Peels in Submerged Fermentation. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2020, 44, 981-991.	0.7	9
42	Evaluation of Cadmium Chloride-Induced Toxicity in Chicks Via Hematological, Biochemical Parameters, and Cadmium Level in Tissues. <i>Biological Trace Element Research</i> , 2021, 199, 3457-3469.	1.9	9
43	Essential Role of the N- and C-terminals of Laccase from <i>Pleurotus florida</i> on the Laccase Activity and Stability. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2007-2017.	1.4	8
44	Study on the effect of magnetic field treatment of newly isolated <i>Paenibacillus</i> sp., 2015, 56, 2.		8
45	Isolation and Identification of Cellulolytic and Ethanologenic Bacteria from Soil. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2017, 41, 551-555.	0.7	8
46	Effect of KOH Pretreatment on Lignocellulosic Waste to be Used as Substrate for Ethanol Production. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2017, 41, 659-663.	0.7	8
47	Bioinformatics Approaches to Explore the Phylogeny and Role of BRCA1 in Breast Cancer. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2019, 29, 551-564.	0.4	8
48	Utilization of agricultural wastes as a substrate for Carboxymethyl cellulase production from <i>Aspergillus niger</i> in submerged fermentation. <i>International Journal for Agro Veterinary and Medical Sciences</i> , 2011, 5, 464.	0.1	8
49	Valorization of Fruit Peels into Biovanillin and Statistical Optimization of Process Using <i>Enterobacter hormaechei</i> through Solid-State Fermentation. <i>Fermentation</i> , 2022, 8, 40.	1.4	8
50	Effects of the Biocontrol Agent <i>Aspergillus flavipes</i> on the Soil Microflora and Soil Enzymes in the Rooting Zone of Pepper Plants Infected with <i>Phytophthora capsici</i> . <i>Journal of Phytopathology</i> , 2015, 163, 513-521.	0.5	7
51	Statistical optimization of dilute acid pretreatment of pinus needles to be used as substrate for biofuel production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 1983-1992.	1.2	6
52	Effect of Fermentation Broth of Endophytic Fungi on Physiological and Biochemical Characteristics of Tomato Seedling Under Calcium Nitrate Stress. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2019, 43, 1427-1432.	0.7	6
53	Enhanced remediation of Cr ⁶⁺ in bacterial-assisted floating wetlands. <i>Water and Environment Journal</i> , 2020, 34, 970-978.	1.0	6
54	Microbial conversion of pomegranate peels to biovanillin using submerged fermentation and process optimization through statistical design. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 679-688.	2.9	6

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55	Application of Chemometric Methods for the Optimization Secretion of Xylanase by <i>Aspergillus oryzae</i> in Solid State Fermentation and Its Application in the Saccharification of Agro-industrial Waste. Waste and Biomass Valorization, 2023, 14, 3183-3193.	1.8	6
56	Effect of <i>N</i> -acetyl-OH on delignification of <i>Saccharum spontaneum</i> . Environmental Progress and Sustainable Energy, 2016, 35, 284-288.	1.3	5
57	Catalytic Properties of Carboxymethyl Cellulase Produced from Newly Isolated Novel Fungus <i>Penicillium ochrochloron</i> ZH1 in Submerged Fermentation. Catalysis Letters, 2017, 147, 2013-2022.	1.4	5
58	Kallar grass (<i>Leptochloa fusca</i> L. Kunth) as a feedstock for ethanol fermentation with the aid of response surface methodology. Environmental Progress and Sustainable Energy, 2018, 37, 569-576.	1.3	5
59	ISOLATION OF CELLULOLYTIC BACTERIA FROM SOIL AND VALORIZATION OF DIFFERENT LIGNOCELLULOSIC WASTES FOR CELLULOSE PRODUCTION BY SUBMERGED FERMENTATION. Cellulose Chemistry and Technology, 2021, 55, 821-828.	0.5	5
60	Procurement and Characterization of Biodegradable Films made from Blends of Eucalyptus, Pine and Cocoa Bean Shell Nanocelluloses. Waste and Biomass Valorization, 2023, 14, 3169-3181.	1.8	5
61	Bioconversion of apple peels (<i>Malus domestica</i>) to polyhydroxybutyrate using statistical design to optimize process parameters through <i>Bacillus thuringiensis</i> via solid-state fermentation. Biomass Conversion and Biorefinery, 2024, 14, 4273-4281.	2.9	5
62	Structure and evolution analysis of pollen receptor-like kinase in <i>Zea mays</i> and <i>Arabidopsis thaliana</i> . Computational Biology and Chemistry, 2014, 51, 63-70.	1.1	4
63	Comparison of different pretreatment methods for efficient conversion of bagasse into ethanol. Biofuels, 2017, 8, 135-141.	1.4	4
64	Effect of Different Pretreatment Conditions on <i>Saccharum spontaneum</i> for Cellulase Production by <i>B. subtilis</i> K-18 Through Box-Behnken Design. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 313-320.	0.7	4
65	Action Mechanism of <i>Streptomyces diastatochromogenes</i> KX852460 Against <i>Rhizoctonia solani</i> AG-3 Involving Basidiospores Suppression and Oxidative Damage. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2141-2147.	0.7	4
66	Valorization of potato peel for production of alginate and optimization of the process through response surface methodology (RSM) by using <i>Azotobacter nigricans</i> . Biomass Conversion and Biorefinery, 2023, 13, 3893-3901.	2.9	4
67	New biodegradable film produced from cocoa shell nanofibrils containing bioactive compounds. Journal of Coatings Technology Research, 2021, 18, 1613-1624.	1.2	4
68	Phylogenetic analysis of STK gene family and Usp domain in maize. Molecular Biology Reports, 2014, 41, 8273-8284.	1.0	3
69	Effect of NaOH on pretreatment of <i>Gossypium herbaceum</i> . Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 1898-1903.	1.2	3
70	Exometabolomic study of extracellular metabolites in tobacco plant induced by ethyl acetate extracts of <i>Streptomyces diastatochromogenes</i> KX852460. Journal of Radiation Research and Applied Sciences, 2019, 12, 157-165.	0.7	3
71	Identification of bioactive compounds in leaves and fruits of <i>Actinidia arguta</i> accessions from northeastern China and assessment of their antioxidant activity with a radical-scavenging effect. Biotechnology and Biotechnological Equipment, 2021, 35, 593-607.	0.5	3
72	Phylogenetic diversity and cross-inoculation of indigenous isolated from nodules of peanut in Liaoning province of China. Molecular Biology Research Communications, 2019, 8, 59-68.	0.2	3

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73	Identification of quantitative trait loci for leaf traits in rice. <i>Genetika</i> , 2016, 48, 643-652.	0.1	3
74	"CELLULASE PRODUCTION OPTIMIZATION BY BACILLUS AERIUS THROUGH RESPONSE SURFACE METHODOLOGY IN SUBMERGED FERMENTATION ". <i>Cellulose Chemistry and Technology</i> , 2022, 56, 321-330.	0.5	3
75	Statistical optimization for deconstruction of poplar substrate by dilute sulfuric acid for bioethanol production. <i>Green Chemistry Letters and Reviews</i> , 2017, 10, 69-79.	2.1	2
76	Role of Bioprocess Parameters to Improve Cellulase Production: Part I. , 2019, , 63-76.		2
77	Analysis of flavonoids biosynthesis-related genes expression reveals the mechanism of difference of flavonoid content in different tissues of <i>Actinidia arguta</i> . <i>Revista Brasileira De Botanica</i> , 2021, 44, 513-523.	0.5	2
78	Quantitative trait loci mapping of panicle traits in rice. <i>Molecular Biology Research Communications</i> , 2019, 8, 9-15.	0.2	2
79	First Record of <i>Didymella anemones</i> sp. nov. Teleomorph of <i>Asochyta anemones</i> , the Causal Agent of Leaf Spots on <i>Pulsatilla korreana</i> in China. <i>Journal of Phytopathology</i> , 2012, 160, 728-731.	0.5	1
80	Characterization of the promoter region of the glycerol-3-phosphate-O-acyltransferase gene in <i>Lilium pensylvanicum</i> . <i>Turkish Journal of Biology</i> , 2017, 41, 552-562.	2.1	1
81	Characterization of LiMAPK gene in response to salinity stress in Tiger lily (<i>Lilium lancifolium</i> Thunb.). <i>Biotechnology and Biotechnological Equipment</i> , 2018, 32, 1154-1166.	0.5	1
82	Synthesis of Iron Oxide Nanomaterials for Biofuel Applications. <i>Clean Energy Production Technologies</i> , 2020, , 275-307.	0.3	1
83	Diversity of methane-producing microbial community structure with 16S-V3 rDNA PCR-DGGE. <i>Genetika</i> , 2016, 48, 1111-1119.	0.1	1
84	Immunotherapy for Triple-Negative Breast Cancer: Latest Research and Clinical Prospects. <i>Critical Reviews in Immunology</i> , 2019, 39, 211-221.	1.0	1
85	Unraveling the Anticancer Components of <i>Centipeda minima</i> and their Cellular Targets in Human Cancers. <i>Journal of Biologically Active Products From Nature</i> , 2022, 12, 42-64.	0.1	1
86	An overview of molecular genetic linkage maps in <i>Lilium</i> spp.. <i>Genetika</i> , 2017, 49, 755-764.	0.1	0
87	Effect of Bioprocess Parameters on Biofuel Production. <i>Clean Energy Production Technologies</i> , 2021, , 95-126.	0.3	0
88	Microbial Production of Lactic Acid – A Review. <i>Current Biotechnology</i> , 2022, 11, 107-116.	0.2	0