

# Muhammad Bilal

## List of Publications by Year in Descending Order

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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.

715  
papers

14,274  
citations

59  
h-index

90  
g-index

774  
ext. papers

20,531  
ext. citations

5.2  
avg, IF

7.97  
L-index

#	Paper	IF	Citations
715	Investigation of the Presence Volatile Organic Compounds (BTEX) in the Ambient Air and Biogases Produced by a Shiraz Landfill in Southern Iran. <i>Sustainability</i> , <b>2022</b> , 14, 1040	3.6	2
714	Nanobioremediation: Status quo and view ahead <b>2022</b> , 573-577		0
713	Microbial exo-polygalacturonase a versatile enzyme with multiindustrial applications <b>2022</b> , 595-621		
712	Nanoadsorbents as a green approach for removal of environmental pollutants <b>2022</b> , 435-454		0
711	Lignin removal from pulp and paper industry waste streams and its application <b>2022</b> , 265-283		0
710	Treatment of pulp and paper industry waste effluents and contaminants <b>2022</b> , 349-370		
709	Vinasse bio-valorization for enhancement of Pleurotus biomass productivity: chemical characterization and carbohydrate analysis. <i>Biomass Conversion and Biorefinery</i> , <b>2022</b> , 1	2.3	0
708	Functionalized nanoparticles and their environmental remediation potential: a review. <i>Journal of Nanostructure in Chemistry</i> , <b>2022</b> , 1	7.6	2
707	Prospects of microbial polysaccharides-based hybrid constructs for biomimicking applications.. <i>Journal of Basic Microbiology</i> , <b>2022</b> ,	2.7	3
706	Paper and pulp mill wastewater: characterization, microbial-mediated degradation, and challenges <b>2022</b> , 371-387		0
705	Laccases: catalytic and functional attributes for robust biocatalysis <b>2022</b> , 567-594		0
704	Nanomaterials for bioremediation of air pollution <b>2022</b> , 243-261		1
703	Investigating the Electrocoagulation Treatment of Landfill Leachate by Iron/Graphite Electrodes: Process Parameters and Efficacy Assessment. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 205	3	3
702	Investigation of the Biological Applications of Biosynthesized Nickel Oxide Nanoparticles Mediated by Buxus wallichiana Extract. <i>Crystals</i> , <b>2022</b> , 12, 146	2.3	1
701	Metal-organic frameworks for removal of heavy metals <b>2022</b> , 455-476		0
700	Nanobiocatalysts for wastewater remediation and redefining of pollutants <b>2022</b> , 313-337		
699	Role of laccase in the pulp and paper industry <b>2022</b> , 35-60		0

698	Carrier-Free Cross-linked Laccase Crystals for Biocatalytic Degradation of Textile Industrial Effluents.. <i>Applied Biochemistry and Biotechnology</i> , <b>2022</b> , 1	3.2	1
697	Tumor-derived extracellular vesicles: Potential tool for cancer diagnosis, prognosis, and therapy.. <i>Saudi Journal of Biological Sciences</i> , <b>2022</b> , 29, 2063-2071	4	1
696	Electrospun cellulose composite nanofibers and their biotechnological applications <b>2022</b> , 329-348		0
695	Purification and functional characterization of lectin from <i>Chenopodium album</i> . <i>Journal of Proteins and Proteomics</i> , <b>2022</b> , 13, 55	1.8	1
694	Stem Cells and Tissue Engineering-Based Therapeutic Interventions: Promising Strategies to Improve Peripheral Nerve Regeneration.. <i>Cellular and Molecular Neurobiology</i> , <b>2022</b> , 1	4.6	1
693	Persistence, environmental hazards, and mitigation of pharmaceutically active residual contaminants from water matrices.. <i>Science of the Total Environment</i> , <b>2022</b> , 153329	10.2	9
692	Nanomaterial-immobilized lipases for sustainable recovery of biodiesel [A review]. <i>Fuel</i> , <b>2022</b> , 316, 123429	7.1	2
691	Nanobiosorbents: Basic principles, synthesis, and application for contaminants removal <b>2022</b> , 45-59		0
690	Introduction to nano-biosorbents <b>2022</b> , 29-43		
689	Nanomaterials for removal of heavy metals from wastewater <b>2022</b> , 135-161		1
688	Toxicological impact and adsorptive removal of triclosan from water bodies using chitosan and carbon-based nano-architectures <b>2022</b> , 437-452		
687	Wind Energy, Its Application, Challenges, and Potential Environmental Impact <b>2022</b> , 1-38		
686	Biological macromolecules for enzyme immobilization <b>2022</b> , 529-546		0
685	Phytochemistry and Diverse Pharmacology of Genus : A Review.. <i>Biomolecules</i> , <b>2022</b> , 12,	5.9	3
684	Biodegradable polymeric conduits: Platform materials for guided nerve regeneration and vascular tissue engineering. <i>Journal of Drug Delivery Science and Technology</i> , <b>2022</b> , 67, 103014	4.5	2
683	Occurrence, toxic effects, and mitigation of pesticides as emerging environmental pollutants using robust nanomaterials - A review.. <i>Chemosphere</i> , <b>2022</b> , 293, 133538	8.4	9
682	Laccase-assisted biosensing constructs [Robust modalities to detect and remove environmental contaminants. <i>Case Studies in Chemical and Environmental Engineering</i> , <b>2022</b> , 5, 100180	7.5	1
681	Integrated biorefinery approach to valorize citrus waste: A sustainable solution for resource recovery and environmental management.. <i>Chemosphere</i> , <b>2022</b> , 293, 133459	8.4	7

680	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review.. <i>Journal of Advanced Research</i> , <b>2022</b> , 38, 157-177	13	2
679	Free and immobilized biocatalysts for removing micropollutants from water and wastewater: Recent progress and challenges. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126201	11	13
678	Enzyme-Assisted Transformation of Lignin-Based Food Bio-residues into High-Value Products with a Zero-Waste Theme: A Review. <i>Waste and Biomass Valorization</i> , <b>2022</b> , 1	3.2	1
677	Biodegradation of materials in presence of nanoparticles <b>2022</b> , 9-30		1
676	Biodegradation of micropollutants <b>2022</b> , 477-507		
675	Metal-organic framework for removal of environmental contaminants <b>2022</b> , 561-577		
674	Biodegradation of environmental pollutants using horseradish peroxidase <b>2022</b> , 603-633		1
673	Microbial degradation of environmental pollutants <b>2022</b> , 509-528		2
672	Nanobiodegradation of pharmaceutical pollutants <b>2022</b> , 635-653		
671	Biodegradation and biodeterioration at the nanoscale: an introduction <b>2022</b> , 1-7		0
670	Broadening the Catalytic Role of Enzymes in Cosmeceutical Sector: A Robust Tool from White Biotechnology. <i>Catalysis Letters</i> , <b>2022</b> , 1	2.8	2
669	Decontamination of emerging pharmaceutical pollutants using carbon-dots as robust materials. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127145	12.8	26
668	Application of TiO <sub>2</sub> photocatalysts hybridized with carbonaceous for degradation of pharmaceuticals <b>2022</b> , 323-348		
667	Covalent organic frameworks-based smart materials for mitigation of pharmaceutical pollutants from aqueous solution. <i>Chemosphere</i> , <b>2022</b> , 286, 131710	8.4	11
666	Drug delivery systems based on blood cells <b>2022</b> , 167-193		
665	Applications of nanotechnology in biological systems and medicine <b>2022</b> , 215-235		0
664	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater.. <i>Bioengineered</i> , <b>2022</b> , 13, 8115-8134	5.7	0
663	Electroactive polymeric nanocomposite BC-g-(Fe <sub>3</sub> O <sub>4</sub> /GO) materials for bone tissue engineering: In-vitro evaluations.. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2022</b> , 1-16	3.5	2

662	Prophylactic and therapeutic insights into trained immunity: A renewed concept of innate immune memory.. <i>Human Vaccines and Immunotherapeutics</i> , <b>2022</b> , 1-19	4.4	2
661	A pilot study for enhanced transformation of a metabolite 3,5-dichloroaniline derived from dicarboximide fungicides through immobilized laccase mediator system.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0
660	Exploring Marine as a Rich Source of Bioactive Peptides: Challenges and Opportunities from Marine Pharmacology.. <i>Marine Drugs</i> , <b>2022</b> , 20,	6	3
659	Application of Green Gold Nanoparticles in Cancer Therapy and Diagnosis.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	6
658	Mechanistic insights expatiating the biological role and regulatory implications of estrogen and HER2 in breast cancer metastasis.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2022</b> , 1866, 130113	4	0
657	Bio-inspired sustainable synthesis of silver chloride nanoparticles and their prominent applications. <i>Journal of the Indian Chemical Society</i> , <b>2022</b> , 99, 100335		1
656	Nano-immunotherapeutic strategies for targeted RNA delivery: Emphasizing the role of monocyte/macrophages as nanovehicles to treat glioblastoma multiforme. <i>Journal of Drug Delivery Science and Technology</i> , <b>2022</b> , 71, 103288	4.5	0
655	Application of nanomaterials for enhanced production of biodiesel, biooil, biogas, bioethanol, and biohydrogen via lignocellulosic biomass transformation. <i>Fuel</i> , <b>2022</b> , 315, 122840	7.1	2
654	Fluorescent-based nanosensors for selective detection of a wide range of biological macromolecules: A comprehensive review.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , ,	7.9	4
653	Prospecting carbon-based nanomaterials for the treatment and degradation of endocrine-disrupting pollutants.. <i>Chemosphere</i> , <b>2022</b> , 134172	8.4	5
652	Biochar-based composites for remediation of polluted wastewater and soil environments: Challenges and prospects.. <i>Chemosphere</i> , <b>2022</b> , 297, 134163	8.4	3
651	Occurrence, toxicity impacts and mitigation of emerging micropollutants in the aquatic environments: Recent tendencies and perspectives. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107598	6.8	4
650	Iron oxide nanoparticles immobilized <i>Aspergillus flavus</i> manganese peroxidase with improved biocatalytic, kinetic, thermodynamic, and dye degradation potentialities. <i>Process Biochemistry</i> , <b>2022</b> , , 117, 117-133	4.8	0
649	A predictive toolset for the identification of degradation pattern and toxic hazard estimation of multimeric hazardous compounds persists in water bodies.. <i>Science of the Total Environment</i> , <b>2022</b> , 824, 153979	10.2	1
648	Nanoparticles as stimulants for efficient generation of biofuels and renewables. <i>Fuel</i> , <b>2022</b> , 319, 123724	7.1	1
647	Effective adsorption of diclofenac and naproxen from water using fixed-bed column loaded with composite of heavy sugarcane ash and polyethylene terephthalate.. <i>Environmental Research</i> , <b>2022</b> , 211, 112971	7.9	
646	Carbon dots-based nanomaterials for fluorescent sensing of toxic elements in environmental samples: Strategies for enhanced performance.. <i>Chemosphere</i> , <b>2022</b> , 300, 134515	8.4	4
645	Nano-remediation technologies for the sustainable mitigation of persistent organic pollutants.. <i>Environmental Research</i> , <b>2022</b> , 211, 113060	7.9	3

644	Recent trends in mesoporous silica nanoparticles of rode-like morphology for cancer theranostics: A review. <i>Journal of Molecular Structure</i> , <b>2022</b> , 1261, 132922	3.4	6
643	Development of reduced graphene oxide-supported novel hybrid nanomaterials (BiWO@rGO and Cu-WO@rGO) for green and efficient oxidative desulfurization of model fuel oil for environmental depollution.. <i>Environmental Research</i> , <b>2022</b> , 212, 113160	7.9	1
642	Recent advances of biosurfactant for waste and pollution bioremediation: Substitutions of petroleum-based surfactants.. <i>Environmental Research</i> , <b>2022</b> , 113126	7.9	5
641	Enhancing the methanol tolerance of lipase B by saturation mutagenesis for biodiesel preparation.. <i>3 Biotech</i> , <b>2022</b> , 12, 22	2.8	1
640	PhysicochemicalBiotechnological approaches for removal of contaminants from wastewater <b>2022</b> , 241-261		0
639	Nanostructured materials for water/wastewater remediation <b>2022</b> , 413-432		
638	Citric acid-capped NiWO/BiS and rGO-doped NiWO/BiS nanoarchitectures for photocatalytic decontamination of emerging pollutants from the aqueous environment.. <i>Environmental Research</i> , <b>2022</b> , 113276	7.9	2
637	Bioprospecting and biotechnological insights into sweet-tasting proteins by microbial hosts-a review.. <i>Bioengineered</i> , <b>2022</b> , 13, 9815-9828	5.7	1
636	Bioprospecting as a Robust Host for Industrial Biotechnology.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 851768	5.8	1
635	Chitosan nanocarriers for microRNA delivery and detection: A preliminary review with emphasis on cancer.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 290, 119489	10.3	2
634	Anti HCV activity and expression inhibition of HCC markers by protein extract from Iberis gibraltarica.. <i>Brazilian Journal of Biology</i> , <b>2022</b> , 84, e252676	1.5	
633	Pleurotus-Derived Laccases, Immobilization, and Bioremediation Applications. <i>Microorganisms for Sustainability</i> , <b>2022</b> , 49-69	1.1	
632	Oxidoreductases for Removal of Environmental Pollutants. <i>Microorganisms for Sustainability</i> , <b>2022</b> , 1-17	1.1	
631	Microbial Lipases for Polyester Degradation. <i>Microorganisms for Sustainability</i> , <b>2022</b> , 71-92	1.1	
630	Multifunctional nanodiamonds as emerging platforms for cancer treatment, and targeted delivery of genetic factors and protein medications review. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 8064-8099	4.3	0
629	Mechanisms of gene regulation by histone degradation in adaptation of yeast: an overview of recent advances.. <i>Archives of Microbiology</i> , <b>2022</b> , 204, 287	3	1
628	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. <i>Crystals</i> , <b>2022</b> , 12, 614	2.3	2
627	Biotransformation of Agricultural By-Products into Biovanillin through Solid-State Fermentation (SSF) and Optimization of Different Parameters Using Response Surface Methodology (RSM). <i>Fermentation</i> , <b>2022</b> , 8, 206	4.7	0

626	Effect of different environmental conditions on the growth and development of Black Soldier Fly Larvae and its utilization in solid waste management and pollution mitigation. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 102649	7	1
625	Silk-based nano-hydrogels for futuristic biomedical applications. <i>Journal of Drug Delivery Science and Technology</i> , <b>2022</b> , 103385	4.5	1
624	Emerging biotechnological strategies for food waste management: A green leap towards achieving high-value products and environmental abatement. <i>Energy Nexus</i> , <b>2022</b> , 6, 100077		1
623	Aptamer-conjugated carbon-based nanomaterials for cancer and bacteria theranostics: A review.. <i>Chemico-Biological Interactions</i> , <b>2022</b> , 361, 109964	5	1
622	Robust strategies to eliminate endocrine disruptive estrogens in water resources.. <i>Environmental Pollution</i> , <b>2022</b> , 119373	9.3	1
621	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. <i>Bioresource Technology</i> , <b>2022</b> , 355, 127303	11	2
620	Broadening the scope of on-site detection and bioanalytical perspective of toxic elements using fluorescent sensing constructs <b>2022</b> , 100019		0
619	Biopolymers and Environment. <i>Springer Series on Polymer and Composite Materials</i> , <b>2022</b> , 19-33	0.9	1
618	Wind Energy, its Application, Challenges, and Potential Environmental Impact <b>2022</b> , 899-935		
617	The potential use of essential oils as natural biocides against plant pathogens <b>2022</b> , 419-435		
616	In Silico Analysis and Functional Characterization of Antimicrobial and Insecticidal Vicilin from Moth Bean ( <i>Vigna aconitifolia</i> (Jacq.) Marechal) Seeds. <i>Molecules</i> , <b>2022</b> , 27, 3251	4.8	0
615	Transcriptome Analysis of <i>Bacillus amyloliquefaciens</i> Reveals Fructose Addition Effects on Fengycin Synthesis. <i>Genes</i> , <b>2022</b> , 13, 984	4.2	0
614	Current Nano-Strategies to Improve Therapeutic Efficacy Across Special Structures. <i>OpenNano</i> , <b>2022</b> , 100049	8.4	0
613	Digging and identification of novel microorganisms from the soil environments with high methanol-tolerant lipase production for biodiesel preparation. <i>Environmental Research</i> , <b>2022</b> , 113570	7.9	2
612	Prediction of phenolic compounds and glucose content from dilute inorganic acid pretreatment of lignocellulosic biomass using artificial neural network modeling. <i>Bioresources and Bioprocessing</i> , <b>2021</b> , 8,	5.2	1
611	Modulation of host epigenome by coronavirus infections and developing treatment modalities for COVID-19 beyond genetics. <i>European Review for Medical and Pharmacological Sciences</i> , <b>2021</b> , 25, 5947-5964	2.9	1
610	Biological Synthesis of Nanocatalysts and Their Applications. <i>Catalysts</i> , <b>2021</b> , 11, 1494	4	23
609	Novel Perspectives towards RNA-Based Nano-Theranostic Approaches for Cancer Management.. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6



608	Dendritic Cell-Targeted Therapies to Treat Neurological Disorders. <i>Molecular Neurobiology</i> , <b>2021</b> , 1	6.2	1
607	MXene-based electrochemical and biosensing platforms to detect toxic elements and pesticides pollutants from environmental matrices. <i>Chemosphere</i> , <b>2021</b> , 132820	8.4	20
606	Heavy metals contamination and associated health risks in food webs-a review focuses on food safety and environmental sustainability in Bangladesh. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	2
605	High sensitivity hydrogen analysis in zircaloy-4 using helium-assisted excitation laser-induced breakdown spectroscopy. <i>Scientific Reports</i> , <b>2021</b> , 11, 21999	4.9	0
604	Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. <i>Gels</i> , <b>2021</b> , 7,	4.2	1
603	Two new torrubiellin derivatives from the mangrove endophytic fungus <i>Parengyodontium album</i> . <i>Phytochemistry Letters</i> , <b>2021</b> , 46, 149-152	1.9	0
602	Biocatalytic remediation of pharmaceutically active micropollutants for environmental sustainability. <i>Environmental Pollution</i> , <b>2021</b> , 293, 118582	9.3	5
601	Separation and remediation of environmental pollutants using metal-organic framework-based tailored materials. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	3
600	Highly hazardous pesticides and related pollutants: Toxicological, regulatory, and analytical aspects. <i>Science of the Total Environment</i> , <b>2021</b> , 151879	10.2	15
599	Emerging trends in environmental and industrial applications of marine carbonic anhydrase: a review. <i>Bioprocess and Biosystems Engineering</i> , <b>2021</b> , 1	3.7	0
598	Enhancing the resilience of transgenic cotton for insect resistance. <i>Molecular Biology Reports</i> , <b>2021</b> , 1	2.8	0
597	Hydrogen-based catalyst-assisted advanced oxidation processes to mitigate emerging pharmaceutical contaminants. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	7
596	Microbial bioremediation strategies with wastewater treatment potentialities - A review. <i>Science of the Total Environment</i> , <b>2021</b> , 818, 151754	10.2	6
595	Application of machine learning in anaerobic digestion: Perspectives and challenges. <i>Bioresource Technology</i> , <b>2021</b> , 345, 126433	11	5
594	Designing Kappa-carrageenan/guar gum/polyvinyl alcohol-based pH-responsive silane-crosslinked hydrogels for controlled release of cephadrine. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 67, 102969	4.5	0
593	Immobilized Enzymes-Based Biosensing Cues for Strengthening Biocatalysis and Biorecognition. <i>Catalysis Letters</i> , <b>2021</b> , 1	2.8	0
592	Nanohybrids-assisted photocatalytic removal of pharmaceutical pollutants to abate their toxicological effects - A review. <i>Chemosphere</i> , <b>2021</b> , 291, 133056	8.4	3
591	Challenges and Recent Advances in Enzyme-Mediated Wastewater Remediation-A Review. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6



590	Bio-applications and biotechnological applications of nanodiamonds. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 6175-6189	5.5	2
589	MXene-based hybrid composites as photocatalyst for the mitigation of pharmaceuticals. <i>Chemosphere</i> , <b>2021</b> , 133062	8.4	3
588	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 454, 214327	23.2	11
587	Carbon nanomaterials as emerging nanotherapeutic platforms to tackle the rising tide of cancer - A review. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 51, 116493	3.4	4
586	Synthesis of ternary-based visible light nano-photocatalyst for decontamination of organic dyes-loaded wastewater. <i>Chemosphere</i> , <b>2021</b> , 289, 133121	8.4	3
585	Negative and positive environmental perspective of COVID-19: air, water, wastewater, forest, and noise quality. <i>Egyptian Journal of Basic and Applied Sciences</i> , <b>2021</b> , 8, 364-384	1.3	1
584	In-situ, Ex-situ, and nano-remediation strategies to treat polluted soil, water, and air - A review.. <i>Chemosphere</i> , <b>2021</b> , 289, 133252	8.4	14
583	Advanced catalytic ozonation for degradation of pharmaceutical pollutants-A review. <i>Chemosphere</i> , <b>2021</b> , 289, 133208	8.4	7
582	Nano-engineered materials for sensing food pollutants: Technological advancements and safety issues.. <i>Chemosphere</i> , <b>2021</b> , 292, 133320	8.4	8
581	In silico analytical toolset for predictive degradation and toxicity of hazardous pollutants in water sources.. <i>Chemosphere</i> , <b>2021</b> , 292, 133250	8.4	2
580	iTRAQ-BASED Proteomic Analysis of the Mechanism of Fructose on Improving Fengycin Biosynthesis in. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
579	Alginate-based nano-adsorbent materials - Bioinspired solution to mitigate hazardous environmental pollutants. <i>Chemosphere</i> , <b>2021</b> , 288, 132618	8.4	11
578	Exploring the potential of ligninolytic armory for lignin valorization A way forward for sustainable and cleaner production. <i>Journal of Cleaner Production</i> , <b>2021</b> , 326, 129420	10.3	7
577	Bioprospecting microbial hosts to valorize lignocellulose biomass - Environmental perspectives and value-added bioproducts. <i>Chemosphere</i> , <b>2021</b> , 132574	8.4	8
576	Thermostable trypsin-like protease by <i>Penicillium roqueforti</i> secreted in cocoa shell fermentation: Production optimization, characterization, and application in milk clotting. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	5
575	Enzyme-assisted bioremediation approach for synthetic dyes and polycyclic aromatic hydrocarbons degradation. <i>Journal of Basic Microbiology</i> , <b>2021</b> , 61, 960-981	2.7	2
574	Ecotoxicological Assessment and Environmental Risk of the Insecticide Chlorpyrifos for Aquatic Neotropical Indicators. <i>Water, Air, and Soil Pollution</i> , <b>2021</b> , 232, 1	2.6	3
573	Ultrasonic-assisted extraction as a green route for hydrolysis of bound phenolics in selected wild fruits: Detection and systematic characterization using GC-MS-TIC method. <i>Process Biochemistry</i> , <b>2021</b> ,	4.8	1

572	Stimuli-responsive nanoliposomes as prospective nanocarriers for targeted drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 66, 102916	4.5	7
571	Green photosensitisers for the degradation of selected pesticides of high risk in most susceptible food: A safer approach. <i>PLoS ONE</i> , <b>2021</b> , 16, e0258864	3.7	
570	Recent advancement in BiOI-based nanocomposites for high performance photocatalysts. <i>Chemosphere</i> , <b>2021</b> , 132668	8.4	1
569	Plant-based nanoparticles prepared from protein containing tribenuron-methyl: fabrication, characterization, and application. <i>Chemical and Biological Technologies in Agriculture</i> , <b>2021</b> , 8,	4.4	2
568	PHYTOCHEMICAL SCREENING OF DIFFERENT ROOT EXTRACTS OF <i>Ageratum conyzoides</i> AND THEIR POTENTIAL BIOACTIVE PROPERTIES. <i>Journal of Experimental Biology and Agricultural Sciences</i> , <b>2021</b> , 9, 639-646	0.6	
567	Environmental impacts of hazardous waste, and management strategies to reconcile circular economy and eco-sustainability. <i>Science of the Total Environment</i> , <b>2021</b> , 807, 150856	10.2	10
566	Bioengineered microbial platforms for biomass-derived biofuel production - A review. <i>Chemosphere</i> , <b>2021</b> , 288, 132528	8.4	9
565	Immunotherapies and immunomodulatory approaches in clinical trials - a mini review. <i>Human Vaccines and Immunotherapeutics</i> , <b>2021</b> , 17, 1897-1909	4.4	14
564	Bio-purification of sugar industry wastewater and production of high-value industrial products with a zero-waste concept. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 61, 3537-3554	11.5	5
563	Structural Properties and Antimicrobial Activities of <i>Polyalthia longifolia</i> Leaf Extract-Mediated CuO Nanoparticles. <i>BioNanoScience</i> , <b>2021</b> , 11, 579-589	3.4	29
562	<i>Penicillium fellutanum</i> lipase as a green and ecofriendly biocatalyst for depolymerization of poly (ε-caprolactone): Biochemical, kinetic, and thermodynamic investigations. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	1
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488	Interactive effect of citric acid, phytase and chelated mineral on growth performance, nutrient digestibility and whole-body composition of <i>Labeo rohita</i> fingerlings. <i>Aquaculture Research</i> , <b>2021</b> , 52, 842-858	1.9	2
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32	An overview of phytochrome: An important light switch and photo-sensory antenna for regulation of vital functioning of plants. <i>Biologia (Poland)</i> , <b>2015</b> , 70, 1273-1283	1.5	
31	Antimicrobial Activities of Monoesters of Succinic Acid. <i>Asian Journal of Chemistry</i> , <b>2014</b> , 26, 8025-8028	0.4	4
30	Risk factors associated with prevalence and major bacterial causes of mastitis in dromedary camels ( <i>Camelus dromedarius</i> ) under different production systems. <i>Tropical Animal Health and Production</i> , <b>2012</b> , 44, 107-12	1.7	13
29	Factors affecting yield and composition of camel milk kept under desert conditions of central Punjab, Pakistan. <i>Tropical Animal Health and Production</i> , <b>2012</b> , 44, 1403-10	1.7	15
28	Oxidative photo-catalyzed degradation of a new biological fungicide, phenazine-1-carboxylic acid	115, 207-212	4
27	Optimization of growth conditions for the biosynthesis of medium-chain length polyhydroxyalkanoates from <i>Bacillus megaterium</i> DSM 509: experimental analysis, statistical modelling, and characterization. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0
26	Hazardous wastes, adverse impacts, and management strategies: a way forward to environmental sustainability. <i>Environment, Development and Sustainability</i> ,1	4.5	2
25	Immobilization of a cold-adaptive recombinant <i>Penicillium cyclopium</i> lipase on modified palygorskite for biodiesel preparation. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	4
24	Chitosan-Based Smart Polymeric Hydrogels and their Prospective Applications in Biomedicine. <i>Starch/Staerke</i> ,2100150	2.3	1
23	Optimization of Lipase Production by Response Surface Methodology and Its Application for Efficient Biodegradation of Polyester vylon-200. <i>Catalysis Letters</i> ,1	2.8	4
22	Engineering novel gold nanoparticles using <i>Sageretia thea</i> leaf extract and evaluation of their biological activities. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	5
21	Development of catalysts for sulfuric acid decomposition in the sulfur cycle: a review. <i>Catalysis Reviews - Science and Engineering</i> ,1-36	12.6	1
20	Sustainable Production, Optimization, and Partial Characterization of Exopolysaccharides by <i>Macroccoccus brunensis</i> . <i>Waste and Biomass Valorization</i> ,1	3.2	5
19	Lignin-modifying enzymes: a green and environmental responsive technology for organic compound degradation. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	6
18	Recovery of high-value bioactive phytochemicals from agro-waste of mango ( <i>Mangifera indica</i> L.) using enzyme-assisted ultrasound pretreated extraction. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	7
17	Application of chemometric tools in the development of food bars based on cocoa shell, soy flour and green banana flour. <i>International Journal of Food Science and Technology</i> ,	3.8	2
16	Optimization of bioprocess steps through response surface methodology for the production of immobilized lipase using <i>Chaetomium globosum</i> via solid-state fermentation. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	3
15	Sustainable Production of Thermostable Laccase from Agro-Residues Waste by <i>Bacillus aquimaris</i> AKRC02. <i>Catalysis Letters</i> ,1	2.8	6

14	Exo-polygalacturonase production from agro-waste by <i>Penicillium fellutanum</i> and insight into thermodynamic, kinetic, and fruit juice clarification. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1
13	Extremophilic Ligninolytic Enzymes: Versatile Biocatalytic Tools with Impressive Biotechnological Potential. <i>Catalysis Letters</i> ,1	2.8	1
12	Carrageenan-Based Hybrids with Biopolymers and Nano-Structured Materials for Biomimetic Applications. <i>Starch/Staerke</i> ,2200018	2.3	3
11	Insights into the catalytic mechanism of ligninolytic peroxidase and laccase in lignin degradation. <i>Bioremediation Journal</i> ,1-11	2.3	1
10	Surface-functionalized spongy zinc ferrite as a robust visible-light driven nanocatalyst for wastewater remediation: characterization, kinetic, and mechanistic insight. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	1
9	Experimental and theoretical review on covalent coupling and elemental doping of carbon nanomaterials for environmental photocatalysis. <i>Critical Reviews in Solid State and Materials Sciences</i> ,1-42	10.1	1
8	Hydroxyapatite nanoparticles/polyimide-coated platinum electrodes for improved heat-insulating and heavy metal ion diffusion properties. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	
7	Immobilization, biochemical, thermodynamic, and fruit juice clarification properties of lignocellulosic biomass-derived exo-polygalacturonase from <i>Penicillium paxilli</i> . <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0
6	Bioprospecting lignin biomass into environmentally friendly polymers—Applied perspective to reconcile sustainable circular bioeconomy. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	3
5	Polysaccharides-Based Nano-Hybrid Biomaterial Platforms for Tissue Engineering, Drug Delivery, and Food Packaging Applications. <i>Starch/Staerke</i> ,2200023	2.3	1
4	Upgrading recalcitrant lignocellulosic biomass hydrolysis by immobilized cellulolytic enzyme-based nanobiocatalytic systems: a review. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0
3	Procurement and Characterization of Biodegradable Films made from Blends of Eucalyptus, Pine and Cocoa Bean Shell Nanocelluloses. <i>Waste and Biomass Valorization</i> ,	3.2	1
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1	Evaluation of fungal biomass developed from cocoa by-product as a substrate with corrosion inhibitor for carbon steel. <i>Chemical Engineering Communications</i> ,1-16	2.2	2