

Muhammad Bilal

List of Publications by Citations

Source: <https://exaly.com/author-pdf/185645/muhammad-bilal-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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
7 ¹⁵	Environmentally-related contaminants of high concern: Potential sources and analytical modalities for detection, quantification, and treatment. <i>Environment International</i> , 2019 , 122, 52-66	12.9	302
7 ¹⁴	Immobilized ligninolytic enzymes: An innovative and environmental responsive technology to tackle dye-based industrial pollutants - A review. <i>Science of the Total Environment</i> , 2017 , 576, 646-659	10.2	264
7 ¹³	Emerging contaminants of high concern and their enzyme-assisted biodegradation - A review. <i>Environment International</i> , 2019 , 124, 336-353	12.9	218
7 ¹²	Biosorption: An Interplay between Marine Algae and Potentially Toxic Elements-A Review. <i>Marine Drugs</i> , 2018 , 16,	6	210
7 ¹¹	Fluorescent sensor based models for the detection of environmentally-related toxic heavy metals. <i>Science of the Total Environment</i> , 2018 , 615, 476-485	10.2	205
7 ¹⁰	Magnetic nanoparticles as versatile carriers for enzymes immobilization: A review. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 2530-2544	7.9	188
7 ⁰⁹	Green biosynthesis of silver nanoparticles using leaves extract of <i>Artemisia vulgaris</i> and their potential biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 158, 408-415	6	164
7 ⁰⁸	Recent progress in multienzymes co-immobilization and multienzyme system applications. <i>Chemical Engineering Journal</i> , 2019 , 373, 1254-1278	14.7	163
7 ⁰⁷	Naturally-derived biopolymers: Potential platforms for enzyme immobilization. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 462-482	7.9	163
7 ⁰⁶	Green nanotechnology: a review on green synthesis of silver nanoparticles - an ecofriendly approach. <i>International Journal of Nanomedicine</i> , 2019 , 14, 5087-5107	7.3	160
7 ⁰⁵	Hazardous contaminants in the environment and their laccase-assisted degradation - A review. <i>Journal of Environmental Management</i> , 2019 , 234, 253-264	7.9	153
7 ⁰⁴	Stimuli-Responsive Polymeric Nanocarriers for Drug Delivery, Imaging, and Theragnosis. <i>Polymers</i> , 2020 , 12,	4.5	138
7 ⁰³	Multi-point enzyme immobilization, surface chemistry, and novel platforms: a paradigm shift in biocatalyst design. <i>Critical Reviews in Biotechnology</i> , 2019 , 39, 202-219	9.4	137
7 ⁰²	Biotransformation of lignocellulosic materials into value-added products-A review. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 447-458	7.9	136
7 ⁰¹	Production and use of immobilized lipases in/on nanomaterials: A review from the waste to biodiesel production. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 207-222	7.9	135
7 ⁰⁰	Chitosan beads immobilized manganese peroxidase catalytic potential for detoxification and decolorization of textile effluent. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 181-9	7.9	121
6 ⁹⁹	Mitigation of environmental pollution by genetically engineered bacteria - Current challenges and future perspectives. <i>Science of the Total Environment</i> , 2019 , 667, 444-454	10.2	116

698	Endogenous and Exogenous Stimuli-Responsive Drug Delivery Systems for Programmed Site-Specific Release. <i>Molecules</i> , 2019 , 24,	4.8	113
697	"Smart" chemistry and its application in peroxidase immobilization using different support materials. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 278-290	7.9	111
696	Enhanced bio-catalytic performance and dye degradation potential of chitosan-encapsulated horseradish peroxidase in a packed bed reactor system. <i>Science of the Total Environment</i> , 2017 , 575, 1352-1360 ¹⁰³ ¹⁰⁸		
695	Ecotoxicological and health concerns of persistent coloring pollutants of textile industry wastewater and treatment approaches for environmental safety. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105012	6.8	108
694	Persistence of pesticides-based contaminants in the environment and their effective degradation using laccase-assisted biocatalytic systems. <i>Science of the Total Environment</i> , 2019 , 695, 133896	10.2	107
693	Bio-based active food packaging materials: Sustainable alternative to conventional petrochemical-based packaging materials. <i>Food Research International</i> , 2020 , 137, 109625	7	106
692	Peroxidases-assisted removal of environmentally-related hazardous pollutants with reference to the reaction mechanisms of industrial dyes. <i>Science of the Total Environment</i> , 2018 , 644, 1-13	10.2	106
691	Laccases and peroxidases: The smart, greener and futuristic biocatalytic tools to mitigate recalcitrant emerging pollutants. <i>Science of the Total Environment</i> , 2020 , 714, 136572	10.2	105
690	Chemical, physical, and biological coordination: An interplay between materials and enzymes as potential platforms for immobilization. <i>Coordination Chemistry Reviews</i> , 2019 , 388, 1-23	23.2	105
689	Cross-linked enzyme aggregates (CLEAs) of <i>Pencillium notatum</i> lipase enzyme with improved activity, stability and reusability characteristics. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 1161-9	7.9	104
688	Smart materials-based near-infrared light-responsive drug delivery systems for cancer treatment: A review. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 1497-1509	5.5	96
687	Catalytic potential of bio-synthesized silver nanoparticles using <i>Convolvulus arvensis</i> extract for the degradation of environmental pollutants. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 181, 44-52	6.7	94
686	Environmental impact and pollution-related challenges of renewable wind energy paradigm - A review. <i>Science of the Total Environment</i> , 2019 , 683, 436-444	10.2	93
685	Graphene and graphene oxide: Functionalization and nano-bio-catalytic system for enzyme immobilization and biotechnological perspective. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1430-1440	7.9	93
684	Dye decolorization and detoxification potential of Ca-alginate beads immobilized manganese peroxidase. <i>BMC Biotechnology</i> , 2015 , 15, 111	3.5	90
683	Development of horseradish peroxidase-based cross-linked enzyme aggregates and their environmental exploitation for bioremediation purposes. <i>Journal of Environmental Management</i> , 2017 , 188, 137-143	7.9	88
682	Biocatalytic degradation/redefining "removal" fate of pharmaceutically active compounds and antibiotics in the aquatic environment. <i>Science of the Total Environment</i> , 2019 , 691, 1190-1211	10.2	88
681	Bio-based degradation of emerging endocrine-disrupting and dye-based pollutants using cross-linked enzyme aggregates. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 7035-7041	5.1	87

680	Agarose-chitosan hydrogel-immobilized horseradish peroxidase with sustainable bio-catalytic and dye degradation properties. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 742-749	7.9	87
679	Mutagenicity and cytotoxicity assessment of biodegraded textile effluent by Ca-alginate encapsulated manganese peroxidase. <i>Biochemical Engineering Journal</i> , 2016 , 109, 153-161	4.2	86
678	State-of-the-art protein engineering approaches using biological macromolecules: A review from immobilization to implementation view point. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 893-901	7.9	86
677	Redox-responsive nano-carriers as tumor-targeted drug delivery systems. <i>European Journal of Medicinal Chemistry</i> , 2018 , 157, 705-715	6.8	82
676	Lignocellulose degradation and production of lignin modifying enzymes by <i>Schizophyllum commune</i> IBL-06 in solid-state fermentation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016 , 6, 195-201	4.2	81
675	Modifying bio-catalytic properties of enzymes for efficient biocatalysis: a review from immobilization strategies viewpoint. <i>Biocatalysis and Biotransformation</i> , 2019 , 37, 159-182	2.5	79
674	Comparative genomic analysis of 26 <i>Sphingomonas</i> and <i>Sphingobium</i> strains: Dissemination of bioremediation capabilities, biodegradation potential and horizontal gene transfer. <i>Science of the Total Environment</i> , 2017 , 609, 1238-1247	10.2	79
673	Antibiotics traces in the aquatic environment: persistence and adverse environmental impact. <i>Current Opinion in Environmental Science and Health</i> , 2020 , 13, 68-74	8.1	79
672	An insight into toxicity and human-health-related adverse consequences of cosmeceuticals - A review. <i>Science of the Total Environment</i> , 2019 , 670, 555-568	10.2	78
671	Potentially toxic elements and environmentally-related pollutants recognition using colorimetric and ratiometric fluorescent probes. <i>Science of the Total Environment</i> , 2018 , 640-641, 174-193	10.2	76
670	Sustainable bioconversion of food waste into high-value products by immobilized enzymes to meet bio-economy challenges and opportunities - A review. <i>Food Research International</i> , 2019 , 123, 226-240	7	74
669	Characteristic features and dye degrading capability of agar-agar gel immobilized manganese peroxidase. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 728-40	7.9	74
668	Development of silver nanoparticles loaded chitosan-alginate constructs with biomedical potentialities. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 393-400	7.9	74
667	Environmental threatening concern and efficient removal of pharmaceutically active compounds using metal-organic frameworks as adsorbents. <i>Environmental Research</i> , 2020 , 185, 109436	7.9	70
666	Improvement of activity, thermo-stability and fruit juice clarification characteristics of fungal exo-polygalacturonase. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 974-984	7.9	69
665	Horseradish peroxidase-assisted approach to decolorize and detoxify dye pollutants in a packed bed bioreactor. <i>Journal of Environmental Management</i> , 2016 , 183, 836-842	7.9	69
664	Chitosan-zinc sulfide nanoparticles, characterization and their photocatalytic degradation efficiency for azo dyes. <i>International Journal of Biological Macromolecules</i> , 2020 , 153, 502-512	7.9	68
663	Novel characteristics of horseradish peroxidase immobilized onto the polyvinyl alcohol-alginate beads and its methyl orange degradation potential. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 328-335	7.9	67

662	Sandal reactive dyes decolorization and cytotoxicity reduction using manganese peroxidase immobilized onto polyvinyl alcohol-alginate beads. <i>Chemistry Central Journal</i> , 2015 , 9, 47		65
661	Enhancing catalytic functionality of <i>Trametes versicolor</i> IBL-04 laccase by immobilization on chitosan microspheres. <i>Chemical Engineering Research and Design</i> , 2017 , 119, 1-11	5.5	61
660	Biogenic synthesis and characterization of cobalt oxide nanoparticles for catalytic reduction of direct yellow-142 and methyl orange dyes. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 19, 101154	4.2	61
659	Mitigation of bisphenol A using an array of laccase-based robust bio-catalytic cues - A review. <i>Science of the Total Environment</i> , 2019 , 689, 160-177	10.2	61
658	Enhancement of catalytic, reusability, and long-term stability features of <i>Trametes versicolor</i> IBL-04 laccase immobilized on different polymers. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 54-62	7.9	61
657	Phytoremediation Potential of Hemp (<i>Cannabis sativa</i> L.): Identification and Characterization of Heavy Metals Responsive Genes. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 195-201	1.6	60
656	TiO/SiO decorated carbon nanostructured materials as a multifunctional platform for emerging pollutants removal. <i>Science of the Total Environment</i> , 2019 , 688, 299-311	10.2	59
655	Surfactants-based remediation as an effective approach for removal of environmental pollutants A review. <i>Journal of Molecular Liquids</i> , 2020 , 318, 113960	6	59
654	Chitosan-based hybrid materials as adsorbents for textile dyes A review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100021	7.5	58
653	Remediation of heavy metals polluted environment using Fe-based nanoparticles: Mechanisms, influencing factors, and environmental implications. <i>Environmental Pollution</i> , 2020 , 264, 114728	9.3	57
652	Multifunctional metal-organic frameworks-based biocatalytic platforms: recent developments and future prospects. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2359-2371	5.5	57
651	Macromolecular agents with antimicrobial potentialities: A drive to combat antimicrobial resistance. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 554-574	7.9	56
650	Horseradish peroxidase immobilization by copolymerization into cross-linked polyacrylamide gel and its dye degradation and detoxification potential. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 983-990	7.9	56
649	Disassembly and deconstruction analytics system (D-DAS) for construction in a circular economy. <i>Journal of Cleaner Production</i> , 2019 , 223, 386-396	10.3	55
648	Multifunctional carbon nanotubes and their derived nano-constructs for enzyme immobilization A paradigm shift in biocatalyst design. <i>Coordination Chemistry Reviews</i> , 2020 , 422, 213475	23.2	54
647	Engineering Functionalized Chitosan-Based Sorbent Material: Characterization and Sorption of Toxic Elements. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5138	2.6	54
646	Role of Inflammatory Cytokines in COVID-19 Patients: A Review on Molecular Mechanisms, Immune Functions, Immunopathology and Immunomodulatory Drugs to Counter Cytokine Storm. <i>Vaccines</i> , 2021 , 9,	5.3	53
645	Role of flavonoids in plant interactions with the environment and against human pathogens A review. <i>Journal of Integrative Agriculture</i> , 2019 , 18, 211-230	3.2	52

644	Bio-catalytic performance and dye-based industrial pollutants degradation potential of agarose-immobilized MnP using a Packed Bed Reactor System. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 582-590	7.9	51
643	Microalgae as a source of high-value bioactive compounds. <i>Frontiers in Bioscience - Scholar</i> , 2018 , 10, 197-216	2.4	51
642	Tailoring enzyme microenvironment: State-of-the-art strategy to fulfill the quest for efficient bio-catalysis. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 186-196	7.9	51
641	Environmental perspectives of interfacially active and magnetically recoverable composite materials - A review. <i>Science of the Total Environment</i> , 2019 , 670, 523-538	10.2	50
640	Photocatalytic Degradation of Congo Red Dye from Aqueous Environment Using Cobalt Ferrite Nanostructures: Development, Characterization, and Photocatalytic Performance. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	50
639	Metabolic engineering and enzyme-mediated processing: A biotechnological venture towards biofuel production [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 436-447	16.2	50
638	Nanomaterials for Diagnosis and Treatment of Brain Cancer: Recent Updates. <i>Chemosensors</i> , 2020 , 8, 117	4	50
637	Silver Nanoparticles: Biosynthesis and Antimicrobial Potentialities. <i>International Journal of Pharmacology</i> , 2017 , 13, 832-845	0.7	49
636	Chitosan-capped ternary metal selenide nanocatalysts for efficient degradation of Congo red dye in sunlight irradiation. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 169-181	7.9	49
635	Immobilization of fungal laccase on glutaraldehyde cross-linked chitosan beads and its bio-catalytic potential to degrade bisphenol A. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 19, 101174	4.2	48
634	Reaction Mechanism and Degradation Pathway of Rhodamine 6G by Photocatalytic Treatment. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	48
633	Potential environmental impacts of wind energy development: A global perspective. <i>Current Opinion in Environmental Science and Health</i> , 2020 , 13, 85-90	8.1	48
632	Chitosan-Based Bio-Composite Modified with Thiocarbamate Moiety for Decontamination of Cations from the Aqueous Media. <i>Molecules</i> , 2020 , 25,	4.8	48
631	Recent advances in the production strategies of microbial pectinases-A review. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 1017-1026	7.9	48
630	Photocatalytic degradation, toxicological assessment and degradation pathway of C.I. Reactive Blue 19 dye. <i>Chemical Engineering Research and Design</i> , 2018 , 129, 384-390	5.5	47
629	Carbon nanotubes assisted analytical detection [Sensing/delivery cues for environmental and biomedical monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 132, 116066	14.6	45
628	Fabrication and characterization of new ternary ferrites-chitosan nanocomposite for solar-light driven photocatalytic degradation of a model textile dye. <i>Environmental Technology and Innovation</i> , 2020 , 20, 101079	7	45
627	Tailoring Multipurpose Biocatalysts via Protein Engineering Approaches: A Review. <i>Catalysis Letters</i> , 2019 , 149, 2204-2217	2.8	43

626	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 110-118	7.9	43
625	Nanotechnology in ovarian cancer: Diagnosis and treatment. <i>Life Sciences</i> , 2021 , 266, 118914	6.8	42
624	Design, engineering and analytical perspectives of membrane materials with smart surfaces for efficient oil/water separation. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 127, 115902	14.6	41
623	Influence of bio-fertilizer containing beneficial fungi and rhizospheric bacteria on health promoting compounds and antioxidant activity of <i>Spinacia oleracea</i> L. <i>Botanical Studies</i> , 2017 , 58, 35	2.3	41
622	Persistence and impact of steroidal estrogens on the environment and their laccase-assisted removal. <i>Science of the Total Environment</i> , 2019 , 690, 447-459	10.2	41
621	. <i>Frontiers in Bioscience - Scholar</i> , 2017 , 9, 319-342	2.4	41
620	Covalent organic frameworks as emerging host platforms for enzyme immobilization and robust biocatalysis - A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 502-515	7.9	41
619	Biogenic Nanoparticle-Chitosan Conjugates with Antimicrobial, Antibiofilm, and Anticancer Potentialities: Development and Characterization. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	40
618	Biomedical Potentialities of <i>Taraxacum officinale</i> -based Nanoparticles Biosynthesized Using Methanolic Leaf Extract. <i>Current Pharmaceutical Biotechnology</i> , 2017 , 18, 1116-1123	2.6	40
617	Effective exploitation of anionic, nonionic, and nanoparticle-stabilized surfactant foams for petroleum hydrocarbon contaminated soil remediation. <i>Science of the Total Environment</i> , 2020 , 704, 135391	10.2	40
616	Viral Dynamics and Real-Time RT-PCR Ct Values Correlation with Disease Severity in COVID-19. <i>Diagnostics</i> , 2021 , 11,	3.8	40
615	Lignin peroxidase immobilization on Ca-alginate beads and its dye degradation performance in a packed bed reactor system. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 20, 101205	4.2	39
614	Characterization and deployment of surface-engineered chitosan-triethylenetetramine nanocomposite hybrid nano-adsorbent for divalent cations decontamination. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 663-671	7.9	39
613	Mitigation of environmentally-related hazardous pollutants from water matrices using nanostructured materials - A review. <i>Chemosphere</i> , 2020 , 253, 126770	8.4	38
612	Environmental impact of lignocellulosic wastes and their effective exploitation as smart carriers - A drive towards greener and eco-friendlier biocatalytic systems. <i>Science of the Total Environment</i> , 2020 , 722, 137903	10.2	38
611	Carbon nanotubes-based cues: A pathway to future sensing and detection of hazardous pollutants. <i>Journal of Molecular Liquids</i> , 2019 , 292, 111425	6	38
610	Lignin peroxidase in focus for catalytic elimination of contaminants - A critical review on recent progress and perspectives. <i>International Journal of Biological Macromolecules</i> , 2021 , 177, 58-82	7.9	38
609	Delignification and fruit juice clarification properties of alginate-chitosan-immobilized ligninolytic cocktail. <i>LWT - Food Science and Technology</i> , 2017 , 80, 348-354	5.4	37

608	Wind Generation Forecasting Methods and Proliferation of Artificial Neural Network: A Review of Five Years Research Trend. <i>Sustainability</i> , 2020 , 12, 3778	3.6	37
607	Marine Seaweed Polysaccharides-Based Engineered Cues for the Modern Biomedical Sector. <i>Marine Drugs</i> , 2019 , 18,	6	37
606	Nanomaterials for the treatment and diagnosis of Alzheimer's disease: An overview. <i>NanoImpact</i> , 2020 , 20, 100251	5.6	37
605	Impact of COVID-related lockdowns on environmental and climate change scenarios. <i>Environmental Research</i> , 2021 , 195, 110839	7.9	37
604	Performance evaluation of photolytic and electrochemical oxidation processes for enhanced degradation of food dyes laden wastewater. <i>Water Science and Technology</i> , 2020 , 81, 971-984	2.2	37
603	New Insights on Unique Features and Role of Nanostructured Materials in Cosmetics. <i>Cosmetics</i> , 2020 , 7, 24	2.7	36
602	Delignification of Lignocellulose Biomasses by Alginate-Chitosan Immobilized Laccase Produced from <i>Trametes versicolor</i> IBL-04. <i>Waste and Biomass Valorization</i> , 2018 , 9, 2071-2079	3.2	36
601	Enhanced catalytic potentiality of <i>Ganoderma lucidum</i> IBL-05 manganese peroxidase immobilized on sol-gel matrix. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 128, 82-93		36
600	Rhodamine-assisted fluorescent strategy for the sensitive and selective in-field mapping of environmental pollutant Hg(II) with potential bioimaging. <i>Journal of Luminescence</i> , 2019 , 208, 519-526	3.8	35
599	TiO ₂ /UV-assisted rhodamine B degradation: putative pathway and identification of intermediates by UPLC/MS. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 1533-1543	2.6	35
598	Diverse Immunological Factors Influencing Pathogenesis in Patients with COVID-19: A Review on Viral Dissemination, Immunotherapeutic Options to Counter Cytokine Storm and Inflammatory Responses. <i>Pathogens</i> , 2021 , 10,	4.5	35
597	Covalent organic frameworks as robust materials for mitigation of environmental pollutants. <i>Chemosphere</i> , 2021 , 270, 129523	8.4	35
596	Purification and characterization of manganese peroxidases from native and mutant <i>Trametes versicolor</i> IBL-04. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 561-570	11.3	35
595	Improved catalytic properties of <i>Penicillium notatum</i> lipase immobilized in nanoscale silicone polymeric films. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 279-286	7.9	34
594	Mitigation of salt stress in white clover (<i>Trifolium repens</i>) by <i>Azospirillum brasilense</i> and its inoculation effect. <i>Botanical Studies</i> , 2017 , 58, 5	2.3	34
593	Environmentally responsive and anti-bugs textile finishes - Recent trends, challenges, and future perspectives. <i>Science of the Total Environment</i> , 2019 , 690, 667-682	10.2	34
592	Chitosan-based green sorbent material for cations removal from an aqueous environment. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104064	6.8	34
591	Equilibrium kinetic and thermodynamic studies of Cr(VI) adsorption onto a novel adsorbent of <i>Eucalyptus camaldulensis</i> waste: Batch and column reactors. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2898-2907	2.8	34

590	Enhanced Bio-ethanol Production from Old Newspapers Waste Through Alkali and Enzymatic Delignification. <i>Waste and Biomass Valorization</i> , 2017 , 8, 2271-2281	3.2	33
589	Engineering Pseudomonas for phenazine biosynthesis, regulation, and biotechnological applications: a review. <i>World Journal of Microbiology and Biotechnology</i> , 2017 , 33, 191	4.4	33
588	The Beast of Beauty: Environmental and Health Concerns of Toxic Components in Cosmetics. <i>Cosmetics</i> , 2020 , 7, 13	2.7	33
587	4-Hydroxybenzoic acid-a versatile platform intermediate for value-added compounds. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3561-3571	5.7	33
586	Enhanced biosynthesis of phenazine-1-carboxamide by engineered Pseudomonas chlororaphis HT66. <i>Microbial Cell Factories</i> , 2018 , 17, 117	6.4	33
585	Efficient bio-butanol production from lignocellulosic waste by elucidating the mechanisms of Clostridium acetobutylicum response to phenolic inhibitors. <i>Science of the Total Environment</i> , 2020 , 710, 136399	10.2	33
584	Unprecedented environmental and energy impacts and challenges of COVID-19 pandemic. <i>Environmental Research</i> , 2021 , 193, 110443	7.9	33
583	Turn-on fluorescent sensor-based probing of toxic Hg(II) and Cu(II) with potential intracellular monitoring. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 17, 696-701	4.2	32
582	Toxicological Assessment and UV/TiO ₂ -Based Induced Degradation Profile of Reactive Black 5 Dye. <i>Environmental Management</i> , 2018 , 61, 171-180	3.1	32
581	Bioremediation of lignin derivatives and phenolics in wastewater with lignin modifying enzymes: Status, opportunities and challenges. <i>Science of the Total Environment</i> , 2021 , 777, 145988	10.2	32
580	Metal-Organic Framework-Based Engineered Materials-Fundamentals and Applications. <i>Molecules</i> , 2020 , 25,	4.8	32
579	Microbial-derived biosensors for monitoring environmental contaminants: Recent advances and future outlook. <i>Chemical Engineering Research and Design</i> , 2019 , 124, 8-17	5.5	31
578	Self-assembly of activated lipase hybrid nanoflowers with superior activity and enhanced stability. <i>Biochemical Engineering Journal</i> , 2020 , 158, 107582	4.2	31
577	Mutagenicity, cytotoxicity and phytotoxicity evaluation of biodegraded textile effluent by fungal ligninolytic enzymes. <i>Water Science and Technology</i> , 2016 , 73, 2332-44	2.2	31
576	Trends in predictive biodegradation for sustainable mitigation of environmental pollutants: Recent progress and future outlook. <i>Science of the Total Environment</i> , 2021 , 770, 144561	10.2	31
575	Isolation and characterization of lignin-degrading bacterium from pulp and paper mill wastewater and evaluation of its lignin-degrading potential. <i>3 Biotech</i> , 2019 , 9, 92	2.8	31
574	Engineering enzyme-coupled hybrid nanoflowers: The quest for optimum performance to meet biocatalytic challenges and opportunities. <i>International Journal of Biological Macromolecules</i> , 2019 , 135, 677-690	7.9	30
573	A Molecular Docking Approach to Evaluate the Pharmacological Properties of Natural and Synthetic Treatment Candidates for Use against Hypertension. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	30

572	Immobilization of Alkaline Protease From <i>Bacillus brevis</i> Using Ca-Alginate Entrapment Strategy for Improved Catalytic Stability, Silver Recovery, and Dehairing Potentialities. <i>Catalysis Letters</i> , 2020 , 150, 3572-3583	2.8	30
571	Polysaccharides-based bio-nanostructures and their potential food applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 176, 540-557	7.9	30
570	Gelatin-Immobilized Manganese Peroxidase with Novel Catalytic Characteristics and Its Industrial Exploitation for Fruit Juice Clarification Purposes. <i>Catalysis Letters</i> , 2016 , 146, 2221-2228	2.8	30
569	Dynamics of oil-water interface demulsification using multifunctional magnetic hybrid and assembly materials. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113434	6	29
568	Selenide-chitosan as High-performance Nanophotocatalyst for Accelerated Degradation of Pollutants. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2660-2673	4.5	29
567	Ligninolytic Enzymes Mediated Ligninolysis: An Untapped Biocatalytic Potential to Deconstruct Lignocellulosic Molecules in a Sustainable Manner. <i>Catalysis Letters</i> , 2020 , 150, 524-543	2.8	29
566	Structural Properties and Antimicrobial Activities of <i>Polyalthia longifolia</i> Leaf Extract-Mediated CuO Nanoparticles. <i>BioNanoScience</i> , 2021 , 11, 579-589	3.4	29
565	Enzymes@ZIF-8 Nanocomposites with Protection Nanocoating: Stability and Acid-Resistant Evaluation. <i>Polymers</i> , 2018 , 11,	4.5	29
564	Regenerable chitosan-bismuth cobalt selenide hybrid microspheres for mitigation of organic pollutants in an aqueous environment. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 1305-1317	7.9	28
563	Occurrence, potential ecological risks, and degradation of endocrine disrupter, nonylphenol, from the aqueous environment. <i>Chemosphere</i> , 2021 , 275, 130013	8.4	28
562	Biosynthetic strategies to produce xylitol: an economical venture. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 5143-5160	5.7	27
561	Synergistic use of biochar and acidified manure for improving growth of maize in chromium contaminated soil. <i>International Journal of Phytoremediation</i> , 2020 , 22, 52-61	3.9	27
560	Deferasirox-loaded pluronic nanomicelles: Synthesis, characterization, in vitro and in vivo studies. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114605	6	27
559	Adsorptive removal of acrylic acid from the aqueous environment using raw and chemically modified alumina: Batch adsorption, kinetic, equilibrium and thermodynamic studies. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103927	6.8	26
558	Thermochemical and electrochemical aspects of carbon dioxide methanation: A sustainable approach to generate fuel via waste to energy theme. <i>Science of the Total Environment</i> , 2020 , 712, 136482	10.2	26
557	Decontamination of emerging pharmaceutical pollutants using carbon-dots as robust materials. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127145	12.8	26
556	Synthesis of magnetite-based nanocomposites for effective removal of brilliant green dye from wastewater. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 24489-24502	5.1	25
555	Characteristics of starch isolated from microwave heat treated lotus (<i>Nelumbo nucifera</i>) seed flour. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 219-226	7.9	25

554	Biomimetic nanostructures/cues as drug delivery systems: a review. <i>Materials Today Chemistry</i> , 2019 , 13, 147-157	6.2	25
553	Engineering Ligninolytic Consortium for Bioconversion of Lignocelluloses to Ethanol and Chemicals. <i>Protein and Peptide Letters</i> , 2018 , 25, 108-119	1.9	25
552	Food Safety and COVID-19: Precautionary Measures to Limit the Spread of Coronavirus at Food Service and Retail Sector. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 749-756	0.9	25
551	Deployment of metal-organic frameworks as robust materials for sustainable catalysis and remediation of pollutants in environmental settings. <i>Chemosphere</i> , 2021 , 272, 129605	8.4	25
550	State-of-the-art strategies and applied perspectives of enzyme biocatalysis in food sector - current status and future trends. <i>Critical Reviews in Food Science and Nutrition</i> , 2020 , 60, 2052-2066	11.5	25
549	Protease α Versatile and Ecofriendly Biocatalyst with Multi-Industrial Applications: An Updated Review. <i>Catalysis Letters</i> , 2021 , 151, 307-323	2.8	25
548	Nanodiagnosis and nanotreatment of colorectal cancer: an overview. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	25
547	Multiple Parameter Optimizations for Enhanced Biosynthesis of Exo-polygalacturonase Enzyme and its Application in Fruit Juice Clarification. <i>International Journal of Food Engineering</i> , 2017 , 13,	1.9	24
546	Mexican Microalgae Biodiversity and State-Of-The-Art Extraction Strategies to Meet Sustainable Circular Economy Challenges: High-Value Compounds and Their Applied Perspectives. <i>Marine Drugs</i> , 2019 , 17,	6	24
545	Metabolic engineering strategies for enhanced shikimate biosynthesis: current scenario and future developments. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 7759-7773	5.7	24
544	Bio-Catalysis and Biomedical Perspectives of Magnetic Nanoparticles as Versatile Carriers. <i>Magnetochemistry</i> , 2019 , 5, 42	3.1	24
543	Electronic Properties of Antiperovskite Materials from State-of-the-Art Density Functional Theory. <i>Journal of Chemistry</i> , 2015 , 2015, 1-11	2.3	24
542	Fungal biosynthesis of lignin-modifying enzymes from pulp wash and <i>Luffa cylindrica</i> for azo dye RB5 biodecolorization using modeling by response surface methodology and artificial neural network. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123094	12.8	23
541	Biological Synthesis of Nanocatalysts and Their Applications. <i>Catalysts</i> , 2021 , 11, 1494	4	23
540	Degradation of Congo red dye using ternary metal selenide-chitosan microspheres as robust and reusable catalysts. <i>Environmental Technology and Innovation</i> , 2021 , 22, 101402	7	23
539	Environmentally friendly synthesis of Cr ₂ O ₃ nanoparticles: Characterization, applications and future perspective - a review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 3, 100089	7.5	23
538	Photocatalytic degradation of crystal violet dye under sunlight by chitosan-encapsulated ternary metal selenide microspheres. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 8074-8087	5.1	23
537	Ultrasound-assisted adsorption of phenol from aqueous solution by using spent black tea leaves. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 22920-22930	5.1	23

536	Metabolic engineering pathways for rare sugars biosynthesis, physiological functionalities, and applications-a review. <i>Critical Reviews in Food Science and Nutrition</i> , 2018 , 58, 2768-2778	11.5	22
535	Immobilization of <i>Pleurotus nebrodensis</i> WC 850 laccase on glutaraldehyde cross-linked chitosan beads for enhanced biocatalytic degradation of textile dyes. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101971	6.7	22
534	Environment friendly degradation and detoxification of Congo red dye and textile industry wastewater by a newly isolated <i>Bacillus cohnii</i> (RKS9). <i>Environmental Technology and Innovation</i> , 2021 , 22, 101425	7	22
533	Construction and characterization of bifunctional cellulases: Caldicellulosiruptor-sourced endoglucanase, CBM, and exoglucanase for efficient degradation of lignocellulose. <i>Biochemical Engineering Journal</i> , 2019 , 151, 107363	4.2	21
532	The Emergence of Novel-Coronavirus and its Replication Cycle - An Overview. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 13-16	0.9	21
531	Biosynthesis and biomedical perspectives of carotenoids with special reference to human health-related applications. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 17, 399-407	4.2	21
530	Hydroxyapatite-decorated ZrO for α -amylase immobilization: Toward the enhancement of enzyme stability and reusability. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 299-308	7.9	21
529	Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccases-A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 352-373	7.9	21
528	Identification, characterization of two NADPH-dependent erythrose reductases in the yeast <i>Yarrowia lipolytica</i> and improvement of erythritol productivity using metabolic engineering. <i>Microbial Cell Factories</i> , 2018 , 17, 133	6.4	21
527	An endosymbiont <i>Piriformospora indica</i> reduces adverse effects of salinity by regulating cation transporter genes, phytohormones, and antioxidants in <i>Brassica campestris</i> ssp. <i>Chinensis</i> . <i>Environmental and Experimental Botany</i> , 2018 , 153, 89-99	5.9	21
526	Microplastic contaminants in the aqueous environment, fate, toxicity consequences, and remediation strategies. <i>Environmental Research</i> , 2021 , 200, 111762	7.9	21
525	MXene-based electrochemical and biosensing platforms to detect toxic elements and pesticides pollutants from environmental matrices. <i>Chemosphere</i> , 2021 , 132820	8.4	20
524	Nano and micro architected cues as smart materials to mitigate recalcitrant pharmaceutical pollutants from wastewater. <i>Chemosphere</i> , 2021 , 274, 129785	8.4	20
523	Bioinspired biomaterials and enzyme-based biosensors for point-of-care applications with reference to cancer and bio-imaging. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 17, 168-176	4.2	20
522	H-D Analysis Employing Energy Transfer from Metastable Excited-State He in Double-Pulse LIBS with Low-Pressure He Gas. <i>Analytical Chemistry</i> , 2019 , 91, 1571-1577	7.8	20
521	Physiochemical characteristics and bone/cartilage tissue engineering potentialities of protein-based macromolecules - A review. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 13-22	7.9	20
520	Detection and characterization of refractory organic and inorganic pollutants discharged in biomethanated distillery effluent and their phytotoxicity, cytotoxicity, and genotoxicity assessment using <i>Phaseolus aureus</i> L. and <i>Allium cepa</i> L. <i>Environmental Research</i> , 2021 , 201, 111551	7.9	20
519	Effect of pH and salinity on stability and dynamic properties of magnetic composite amphiphilic demulsifier molecules at the oil-water interface. <i>Journal of Molecular Liquids</i> , 2019 , 290, 111186	6	19

518	Production, thermodynamic characterization, and fruit juice quality improvement characteristics of an Exo-polygalacturonase from <i>Penicillium janczewskii</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140379	4	19
517	Biologically active macromolecules: Extraction strategies, therapeutic potential and biomedical perspective. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 1-18	7.9	19
516	Elevation of secondary metabolites synthesis in <i>Brassica campestris</i> ssp. <i>chinensis</i> L. via exogenous inoculation of <i>Piriformospora indica</i> with appropriate fertilizer. <i>PLoS ONE</i> , 2017 , 12, e0177185	3.7	19
515	Kinetic characterization, thermo-stability and Reactive Red 195A dye detoxifying properties of manganese peroxidase-coupled gelatin hydrogel. <i>Water Science and Technology</i> , 2016 , 74, 1809-1820	2.2	19
514	Design and bio-applications of biological metal-organic frameworks. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1949-1964	2.8	19
513	Enhanced biosynthesis of arbutin by engineering shikimate pathway in <i>Pseudomonas chlororaphis</i> P3. <i>Microbial Cell Factories</i> , 2018 , 17, 174	6.4	19
512	Multi-enzyme co-immobilized nano-assemblies: Bringing enzymes together for expanding bio-catalysis scope to meet biotechnological challenges. <i>International Journal of Biological Macromolecules</i> , 2021 , 186, 735-749	7.9	19
511	Impacts of renewable energy atlas: Reaping the benefits of renewables and biodiversity threats. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22113-22124	6.7	18
510	Nanozymes for medical biotechnology and its potential applications in biosensing and nanotherapeutics. <i>Biotechnology Letters</i> , 2020 , 42, 357-373	3	18
509	Identification, synthesis and regulatory function of the N-acylated homoserine lactone signals produced by <i>Pseudomonas chlororaphis</i> HT66. <i>Microbial Cell Factories</i> , 2018 , 17, 9	6.4	18
508	Identification of biphenyl 2, 3-dioxygenase and its catabolic role for phenazine degradation in <i>Sphingobium yanoikuyae</i> B1. <i>Journal of Environmental Management</i> , 2017 , 204, 494-501	7.9	18
507	Zein-based micro- and nano-constructs and biologically therapeutic cues with multi-functionalities for oral drug delivery systems. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 58, 101818	4.5	18
506	Life cycle assessment in wastewater treatment technology. <i>Current Opinion in Environmental Science and Health</i> , 2020 , 13, 80-84	8.1	18
505	Activated carbon from a specific plant precursor biomass for hazardous Cr(VI) adsorption and recovery studies in batch and column reactors: Isotherm and kinetic modeling. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101577	6.7	18
504	Characterization and Deployment of Surface-Engineered Cobalt Ferrite Nanospheres as Photocatalyst for Highly Efficient Remediation of Alizarin Red S Dye from Aqueous Solution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 5063-5073	3.2	18
503	A review of the nanomaterials use for the diagnosis and therapy of salmonella typhi. <i>Journal of Molecular Structure</i> , 2021 , 1230, 129928	3.4	18
502	Algae-Derived Bioactive Molecules for the Potential Treatment of SARS-CoV-2. <i>Molecules</i> , 2021 , 26,	4.8	18
501	Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling. <i>Fuel</i> , 2021 , 293, 120485	7.1	18

500	as an emerging biotechnological chassis for functional sugars biosynthesis. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 61, 535-552	11.5	18
499	Biopolymers and nanostructured materials to develop pectinases-based immobilized nano-biocatalytic systems for biotechnological applications. <i>Food Research International</i> , 2021 , 140, 109979	7.9	18
498	Persistence, ecological risks, and oxidoreductases-assisted biocatalytic removal of triclosan from the aquatic environment. <i>Science of the Total Environment</i> , 2020 , 735, 139194	10.2	17
497	Microbial bioremediation as a robust process to mitigate pollutants of environmental concern. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100011	7.5	17
496	Catalytic, Kinetic and Thermodynamic Characteristics of an Extracellular Lipase from <i>Penicillium notatum</i> . <i>Catalysis Letters</i> , 2017 , 147, 281-291	2.8	17
495	Behavioral effects of zinc oxide nanoparticles on the brain of rats. <i>Inorganic Chemistry Communication</i> , 2020 , 119, 108131	3.1	17
494	Engineered nanocellulose-based hydrogels for smart drug delivery applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 181, 275-290	7.9	17
493	Development and characterization of regenerable chitosan-coated nickel selenide nano-photocatalytic system for decontamination of toxic azo dyes. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 866-878	7.9	17
492	Armoring bio-catalysis via structural and functional coordination between nanostructured materials and lipases for tailored applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 818-838	7.9	17
491	Advancements in biocatalysis: From computational to metabolic engineering. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1861-1868	11.3	17
490	Plastic waste and its management strategies for environmental sustainability. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 4, 100142	7.5	17
489	Assessment of combined toxicity of heavy metals from industrial wastewaters on <i>Photobacterium phosphoreum</i> T3S. <i>Applied Water Science</i> , 2017 , 7, 2043-2050	5	16
488	Supramolecular membranes: A robust platform to develop separation strategies towards water-based applications. <i>Separation and Purification Technology</i> , 2019 , 215, 441-453	8.3	16
487	Investigation and dynamic analyses of rockslide-induced debris avalanche in Shuicheng, Guizhou, China. <i>Landslides</i> , 2020 , 17, 2189-2203	6.6	16
486	Water matrices as potential source of SARS-CoV-2 transmission [An overview from environmental perspective. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100023	7.5	16
485	Development of a Plasmid-Free Biosynthetic Pathway for Enhanced Muconic Acid Production in <i>Pseudomonas chlororaphis</i> HT66. <i>ACS Synthetic Biology</i> , 2018 , 7, 1131-1142	5.7	16
484	Silica-based nanomaterials as designer adsorbents to mitigate emerging organic contaminants from water matrices. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101675	6.7	16
483	Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1906-1923	7.9	16

482	Immobilized lipases-based nano-biocatalytic systems - A versatile platform with incredible biotechnological potential. <i>International Journal of Biological Macromolecules</i> , 2021 , 175, 108-122	7.9	16
481	Optimization of antibacterial activity of Eucalyptus tereticornis leaf extracts against Escherichia coli through response surface methodologyPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applications</i> , 2021 , 2, 271-287	1.5	16
480	Improved Biosafety and Biosecurity Measures and/or Strategies to Tackle Laboratory-Acquired Infections and Related Risks. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	16
479	Role of sorption energy and chemisorption in batch methylene blue and Cu adsorption by novel thuja cone carbon in binary component system: linear and nonlinear modeling. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 31579-31592	5.1	16
478	Synthesis of Schiff bases derived from 2-hydroxy-1- naphth- aldehyde and their tin(II) complexes for antimicrobial and antioxidant activities. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2018 , 31, 445	1.2	16
477	Enhanced Fluorescent Siderophore Biosynthesis and Loss of Phenazine-1-Carboxamide in Phenotypic Variant of HT66. <i>Frontiers in Microbiology</i> , 2018 , 9, 759	5.7	15
476	Enhanced biosynthesis of phenazine-1-carboxamide by Pseudomonas chlororaphis strains using statistical experimental designs. <i>World Journal of Microbiology and Biotechnology</i> , 2018 , 34, 129	4.4	15
475	Thermoelectric properties of metallic antiperovskites AXD3 (A=Ge, Sn, Pb, Al, Zn, Ga; X=N, C; D=Ca, Fe, Co). <i>Electronic Materials Letters</i> , 2015 , 11, 466-480	2.9	15
474	Factors affecting yield and composition of camel milk kept under desert conditions of central Punjab, Pakistan. <i>Tropical Animal Health and Production</i> , 2012 , 44, 1403-10	1.7	15
473	Highly hazardous pesticides and related pollutants: Toxicological, regulatory, and analytical aspects. <i>Science of the Total Environment</i> , 2021 , 151879	10.2	15
472	Aqueous monitoring of toxic mercury through a rhodamine-based fluorescent sensor. <i>Mathematical Biosciences and Engineering</i> , 2019 , 16, 1861-1873	2.1	15
471	Adsorption isotherm, kinetics and thermodynamic of acid blue and basic blue dyes onto activated charcoal. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100040	7.5	15
470	TiO2 Nanoparticles and Epoxy-TiO2 Nanocomposites: A Review of Synthesis, Modification Strategies, and Photocatalytic Potentialities. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 4829-4846	3.2	15
469	Chitosan-based hybrid materials for adsorptive removal of dyes and underlying interaction mechanisms. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 399-422	7.9	15
468	Microbial production of gamma-aminobutyric acid: applications, state-of-the-art achievements, and future perspectives. <i>Critical Reviews in Biotechnology</i> , 2021 , 41, 491-512	9.4	15
467	SARS-CoV-2 infection during pregnancy and pregnancy-related conditions: Concerns, challenges, management and mitigation strategies-a narrative review. <i>Journal of Infection and Public Health</i> , 2021 , 14, 863-875	7.4	15
466	Nanomaterials as Nanofertilizers and Nanopesticides: An Overview. <i>ChemistrySelect</i> , 2021 , 6, 8645-8663	1.8	15
465	Efficient degradation and detoxification of methylene blue dye by a newly isolated ligninolytic enzyme producing bacterium Bacillus albus MW407057. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 206, 111947	6	15

464	Purification, Kinetic, and Thermodynamic Characteristics of an Exo-polygalacturonase from <i>Penicillium notatum</i> with Industrial Perspective. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 183, 426-443	3.2	14
463	Activity of acetylcholinesterase and acid and alkaline phosphatases in different insecticide-treated <i>Helicoverpa armigera</i> (Hbner). <i>Environmental Science and Pollution Research</i> , 2018 , 25, 22903-22910	5.1	14
462	In-situ, Ex-situ, and nano-remediation strategies to treat polluted soil, water, and air - A review.. <i>Chemosphere</i> , 2021 , 289, 133252	8.4	14
461	2019-nCoV/COVID-19 - Approaches to Viral Vaccine Development and Preventive Measures. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 25-29	0.9	14
460	Immunotherapies and immunomodulatory approaches in clinical trials - a mini review. <i>Human Vaccines and Immunotherapeutics</i> , 2021 , 17, 1897-1909	4.4	14
459	Understanding the hierarchical assemblies and oil/water separation applications of metal-organic frameworks. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114273	6	14
458	Nanostructured materials for harnessing the power of horseradish peroxidase for tailored environmental applications. <i>Science of the Total Environment</i> , 2020 , 749, 142360	10.2	14
457	Biochemical effects of deferasirox and deferasirox-loaded nanomicelles in iron-intoxicated rats. <i>Life Sciences</i> , 2021 , 270, 119146	6.8	14
456	Antibacterial potential of biomaterial derived nanoparticles for drug delivery application. <i>Materials Research Express</i> , 2019 , 6, 125426	1.7	14
455	Residues of endosulfan in cotton growing area of Vehari, Pakistan: an assessment of knowledge and awareness of pesticide use and health risks. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 20079-20091	5.1	14
454	Detailed kinetics study of arsenate adsorption by a sequentially precipitated binary oxide of iron and silicon. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 261-269	2.6	14
453	Coronavirus 2 (SARS-CoV-2) in water environments: Current status, challenges and research opportunities. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101735	6.7	14
452	Diabetic Complications and Insight into Antidiabetic Potentialities of Ethno- Medicinal Plants: A Review. <i>Recent Patents on Inflammation and Allergy Drug Discovery</i> , 2018 , 12, 7-23	5.4	14
451	Environmental occurrence, toxicity concerns, and remediation of recalcitrant nitroaromatic compounds. <i>Journal of Environmental Management</i> , 2021 , 291, 112685	7.9	14
450	Adsorptive remediation of environmental pollutants using magnetic hybrid materials as platform adsorbents. <i>Chemosphere</i> , 2021 , 284, 131279	8.4	14
449	Characterization of ethno-medicinal plant resources of karamar valley Swabi, PakistanPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2017 , 10, 152-163	1.5	13
448	Chemical pollutants from an industrial estate in Pakistan: a threat to environmental sustainability. <i>Applied Water Science</i> , 2019 , 9, 1	5	13
447	Co-production of solvents and organic acids in butanol fermentation by in the presence of lignin-derived phenolics.. <i>RSC Advances</i> , 2019 , 9, 6919-6927	3.7	13

446	Photodynamic-based therapeutic modalities to fight against cancer [A review from synergistic viewpoint. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 51, 70-82	4.5	13
445	Environmental impacts and risk factors of renewable energy paradigm-a review. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 33516-33526	5.1	13
444	Epoxy Polyamide Composites Reinforced with Silica Nanorods: Fabrication, Thermal and Morphological Investigations. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 3869-3877	3.2	13
443	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> , 2012 , 44, 107-12	1.7	13
442	In-Silico Determination of Insecticidal Potential of Vip3Aa-Cry1Ac Fusion Protein Against Lepidopteran Targets Using Molecular Docking. <i>Frontiers in Plant Science</i> , 2015 , 6, 1081	6.2	13
441	Improved lignocellulose degradation efficiency by fusion of β -glucosidase, exoglucanase, and carbohydrate-binding module from <i>Caldicellulosiruptor saccharolyticus</i> . <i>BioResources</i> , 2019 , 14, 6767-6780	1.2	13
440	Free and immobilized biocatalysts for removing micropollutants from water and wastewater: Recent progress and challenges. <i>Bioresource Technology</i> , 2022 , 344, 126201	11	13
439	Recent Advancements in the Life Cycle Analysis of Lignocellulosic Biomass. <i>Current Sustainable/Renewable Energy Reports</i> , 2020 , 7, 100-107	2.8	13
438	Lignin peroxidase-based cross-linked enzyme aggregates (LiP-CLEAs) as robust biocatalytic materials for mitigation of textile dyes-contaminated aqueous solution. <i>Environmental Technology and Innovation</i> , 2021 , 21, 101226	7	13
437	Carrageenan-based nano-hybrid materials for the mitigation of hazardous environmental pollutants. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 700-712	7.9	13
436	Occurrence, environmental fate, ecological issues, and redefining of endocrine disruptive estrogens in water resources. <i>Science of the Total Environment</i> , 2021 , 800, 149635	10.2	13
435	Medicinal Potentialities of Plant Defensins: A Review with Applied Perspectives. <i>Medicines (Basel, Switzerland)</i> , 2019 , 6,	4.1	12
434	Development and characterization of essential oils incorporated chitosan-based cues with antibacterial and antifungal potentialities. <i>Journal of Radiation Research and Applied Sciences</i> , 2020 , 13, 174-179	1.5	12
433	Comparison of Small-Scale Wind Energy Conversion Systems: Economic Indexes. <i>Clean Technologies</i> , 2020 , 2, 144-155	3.4	12
432	Biodegradation of agrowastes by lignocellulolytic activity of an oyster mushroom, <i>Pleurotus sapidus</i> . <i>Journal of the National Science Foundation of Sri Lanka</i> , 2016 , 44, 399	1.6	12
431	Biochemical, Ameliorative and Cytotoxic Effects of Newly Synthesized Curcumin Microemulsions: Evidence from In Vitro and In Vivo Studies. <i>Nanomaterials</i> , 2021 , 11,	5.4	12
430	Bioconversion of sugarcane molasses waste to high-value exopolysaccharides by engineered <i>Bacillus licheniformis</i> . <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 3, 100084	7.5	12
429	Pluronic F127/Doxorubicin microemulsions: Preparation, characterization, and toxicity evaluations. <i>Journal of Molecular Liquids</i> , 2021 , 345, 117028	6	12

428	An overview of process monitoring for anaerobic digestion. <i>Biosystems Engineering</i> , 2021 , 207, 106-119	4.8	12
427	Block copolymer self-assembly mediated aggregation induced emission for selective recognition of picric acid. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111966	6	12
426	Bio-Inspired Supramolecular Membranes: A Pathway to Separation and Purification of Emerging Pollutants. <i>Separation and Purification Reviews</i> , 2020 , 49, 20-36	7.3	12
425	Molecularly imprinted polymers-based adsorption and photocatalytic approaches for mitigation of environmentally-hazardous pollutants - A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104879	6.8	12
424	Robust nanocarriers to engineer nanobiocatalysts for bioprocessing applications. <i>Advances in Colloid and Interface Science</i> , 2021 , 293, 102438	14.3	12
423	Sustainable remediation of hazardous environmental pollutants using biochar-based nanohybrid materials. <i>Journal of Environmental Management</i> , 2021 , 300, 113762	7.9	12
422	Development, influencing parameters and interactions of bioplasticizers: An environmentally friendlier alternative to petro industry-based sources. <i>Science of the Total Environment</i> , 2019 , 682, 394-404	10.2	11
421	Aptamer-based biosensors: a novel toolkit for early diagnosis of cancer. <i>Materials Today Chemistry</i> , 2019 , 12, 353-360	6.2	11
420	Conjugated supramolecular architectures as state-of-the-art materials in detection and remedial measures of nitro based compounds: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 129, 115958	14.6	11
419	Enhanced trans-2,3-dihydro-3-hydroxyanthranilic acid production by pH control and glycerol feeding strategies in engineered <i>Pseudomonas chlororaphis</i> GP72. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1618-1626	3.5	11
418	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. <i>Coordination Chemistry Reviews</i> , 2021 , 454, 214327	23.2	11
417	Polyacrylamide Gel-Entrapped Fungal Manganese Peroxidase from <i>Ganoderma lucidum</i> IBL-05 with Enhanced Catalytic, Stability, and Reusability Characteristics. <i>Protein and Peptide Letters</i> , 2016 , 23, 812-819	1.9	11
416	Alginate-based nano-adsorbent materials - Bioinspired solution to mitigate hazardous environmental pollutants. <i>Chemosphere</i> , 2021 , 288, 132618	8.4	11
415	Photocatalytic Performance of Zinc Ferrite Magnetic Nanostructures for Efficient Eriochrome Black-T Degradation from the Aqueous Environment under Unfiltered Sunlight. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	11
414	Simplex-Centroid Design and Artificial Neural Network-Genetic Algorithm for the Optimization of Exoglucanase Production by <i>Penicillium Roqueforti</i> ATCC 10110 Through Solid-State Fermentation Using a Blend of Agroindustrial Wastes. <i>Bioenergy Research</i> , 2020 , 13, 1130-1143	3.1	11
413	Cellulose-deconstruction potential of nano-biocatalytic systems: A strategic drive from designing to sustainable applications of immobilized cellulases. <i>International Journal of Biological Macromolecules</i> , 2021 , 185, 1-19	7.9	11
412	MXene-based designer nanomaterials and their exploitation to mitigate hazardous pollutants from environmental matrices. <i>Chemosphere</i> , 2021 , 283, 131293	8.4	11
411	Environmental remediation potentialities of metal and metal oxide nanoparticles: Mechanistic biosynthesis, influencing factors, and application standpoint. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101851	7	11

410	Covalent organic frameworks-based smart materials for mitigation of pharmaceutical pollutants from aqueous solution. <i>Chemosphere</i> , 2022 , 286, 131710	8.4	11
409	Identification of oral cavity biofilm forming bacteria and determination of their growth inhibition by <i>Acacia arabica</i> , <i>Tamarix aphylla</i> L. and <i>Melia azedarach</i> L. medicinal plants. <i>Archives of Oral Biology</i> , 2017 , 81, 175-185	2.8	10
408	Metabolic Engineering and Fermentation Process Strategies for L-Tryptophan Production by <i>Escherichia coli</i> . <i>Processes</i> , 2019 , 7, 213	2.9	10
407	Efficient D-threitol production by an engineered strain of <i>Yarrowia lipolytica</i> overexpressing xylitol dehydrogenase gene from <i>Scheffersomyces stipitis</i> . <i>Biochemical Engineering Journal</i> , 2019 , 149, 107259	4.2	10
406	Reduced Graphene Oxide/Zinc Oxide Nanocomposite: From Synthesis to its Application for Wastewater Purification and Antibacterial Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 3907-3919	3.2	10
405	Regulation of antimicrobial activity and xenocoumacins biosynthesis by pH in <i>Xenorhabdus nematophila</i> . <i>Microbial Cell Factories</i> , 2017 , 16, 203	6.4	10
404	Effective adsorption of cationic dye from aqueous solution using low-cost corncob in batch and column studies. <i>Desalination and Water Treatment</i> , 2016 , 57, 28981-28998		10
403	Sucrose synthase genes: a way forward for cotton fiber improvement. <i>Biologia (Poland)</i> , 2018 , 73, 703-713	13.5	10
402	Antifungal activity screening of soil actinobacteria isolated from Inner Mongolia, China. <i>Biological Control</i> , 2018 , 127, 78-84	3.8	10
401	Novel lignocellulosic wastes for comparative adsorption of Cr(VI): equilibrium kinetics and thermodynamic studies. <i>Polish Journal of Chemical Technology</i> , 2017 , 19, 6-15	1	10
400	Coronaviruses and COVID-19 [Complications and Lessons Learned for the Future. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 725-731	0.9	10
399	Environmental impacts of hazardous waste, and management strategies to reconcile circular economy and eco-sustainability. <i>Science of the Total Environment</i> , 2021 , 807, 150856	10.2	10
398	Effects of Dietary Supplementation with Mulberry (L.) Leaf Polysaccharides on Immune Parameters of Weanling Pigs. <i>Animals</i> , 2019 , 10,	3.1	10
397	Robust membranes with tunable functionalities for sustainable oil/water separation. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114701	6	10
396	The smart chemistry of stimuli-responsive polymeric carriers for target drug delivery applications 2018 , 61-99		10
395	Mitigation of environmentally hazardous pollutants by magnetically responsive composite materials. <i>Chemosphere</i> , 2021 , 276, 130241	8.4	10
394	Estimation of COVID-19 generated medical waste in the Kingdom of Bahrain. <i>Science of the Total Environment</i> , 2021 , 801, 149642	10.2	10
393	Poly-3-hydroxybutyrate-based constructs with novel characteristics for drug delivery and tissue engineering applications A review. <i>Polymer Engineering and Science</i> , 2020 , 60, 1760-1772	2.3	9

392	A consistent CO ₂ assimilation rate and an enhanced root development drives the tolerance mechanism in <i>Ziziphus jujuba</i> under soil water deficit. <i>Arid Land Research and Management</i> , 2020 , 34, 392-404	1.8	9
391	State-of-the-Art Genetic Modalities to Engineer Cyanobacteria for Sustainable Biosynthesis of Biofuel and Fine-Chemicals to Meet Bio-Economy Challenges. <i>Life</i> , 2019 , 9,	3	9
390	In silico study for diversing the molecular pathway of pigment formation: an alternative to manual coloring in cotton fibers. <i>Frontiers in Plant Science</i> , 2015 , 6, 751	6.2	9
389	Persistence, environmental hazards, and mitigation of pharmaceutically active residual contaminants from water matrices.. <i>Science of the Total Environment</i> , 2022 , 153329	10.2	9
388	Occurrence, toxic effects, and mitigation of pesticides as emerging environmental pollutants using robust nanomaterials - A review.. <i>Chemosphere</i> , 2022 , 293, 133538	8.4	9
387	Time to Automate the Microbial Detection and Identification: The Status Quo. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 01-03	0.9	9
386	Predicting COVID-19 Spread in Pakistan using the SIR Model. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1423-1430	0.9	9
385	Bioengineered microbial platforms for biomass-derived biofuel production - A review. <i>Chemosphere</i> , 2021 , 288, 132528	8.4	9
384	Effects of novel probiotic strains of <i>Bacillus pumilus</i> and <i>Bacillus subtilis</i> on production, gut health, and immunity of broiler chickens raised under suboptimal conditions. <i>Poultry Science</i> , 2021 , 100, 100871	3.9	9
383	New frontiers and prospects of metal-organic frameworks for removal, determination, and sensing of pesticides. <i>Environmental Research</i> , 2021 , 194, 110654	7.9	9
382	Enzyme-Loaded Flower-Shaped Nanomaterials: A Versatile Platform with Biosensing, Biocatalytic, and Environmental Promise. <i>Nanomaterials</i> , 2021 , 11,	5.4	9
381	Tyrosine kinase inhibitors and their unique therapeutic potentialities to combat cancer. <i>International Journal of Biological Macromolecules</i> , 2021 , 168, 22-37	7.9	9
380	Zirconium-Doped Chromium IV Oxide Nanocomposites: Synthesis, Characterization, and Photocatalysis towards the Degradation of Organic Dyes. <i>Catalysts</i> , 2021 , 11, 117	4	9
379	Development and characterization of cross-linked laccase aggregates (Lac-CLEAs) from <i>Trametes versicolor</i> IBL-04 as ecofriendly biocatalyst for degradation of dye-based environmental pollutants. <i>Environmental Technology and Innovation</i> , 2021 , 21, 101364	7	9
378	Smart chemistry of enzyme immobilization using various support matrices - A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 396-408	7.9	9
377	New insights on unique therapeutic potentialities of prostacyclin and prostacyclin synthase. <i>Materials Today Chemistry</i> , 2020 , 16, 100258	6.2	8
376	Development and Characterization of Functionalized Titanium Dioxide-Reinforced Sulfonated Copolyimide (SPI/TiO ₂) Nanocomposite Membranes with Improved Mechanical, Thermal, and Electrochemical Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 4585-4596	3.2	8
375	Microbial Synthesis of Antibacterial Phenazine-1,6-dicarboxylic Acid and the Role of PhzG in GP72AN. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 2373-2380	5.7	8

374	Development of an efficient method for separation and purification of trans-2,3-dihydro-3-hydroxyanthranilic acid from <i>Pseudomonas chlororaphis</i> GP72 fermentation broth. <i>Separation and Purification Technology</i> , 2018 , 202, 144-148	8.3	8
373	Structural characteristics and electrochemical properties of sulfonated polyimide clay-based composite fabricated by a solution casting method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 19164-19172	2.1	8
372	Nano-engineered materials for sensing food pollutants: Technological advancements and safety issues.. <i>Chemosphere</i> , 2021 , 292, 133320	8.4	8
371	Bioprospecting microbial hosts to valorize lignocellulose biomass - Environmental perspectives and value-added bioproducts. <i>Chemosphere</i> , 2021 , 132574	8.4	8
370	Eucalyptus camaldulensis gum as a green matrix to fabrication of zinc and silver nanoparticles: Characterization and novel prospects as antimicrobial and dye-degrading agents. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15513-15524	5.5	8
369	Biotransformation fate and sustainable mitigation of a potentially toxic element of mercury from environmental matrices. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 6949-6965	5.9	8
368	Organically modified micron-sized vermiculite and silica for efficient removal of Alizarin Red S dye pollutant from aqueous solution. <i>Environmental Technology and Innovation</i> , 2020 , 19, 101001	7	8
367	Persistence, transmission, and infectivity of SARS-CoV-2 in inanimate environments. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100047	7.5	8
366	Microemulsions of tribenuron-methyl using Pluronic F127: Physico-chemical characterization and efficiency on wheat weed. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115263	6	8
365	Green nanoparticles to treat patients with Malaria disease: An overview. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129857	3.4	8
364	Fabrication, characterization, morphological and thermal investigations of functionalized multi-walled carbon nanotubes reinforced epoxy nanocomposites. <i>Progress in Organic Coatings</i> , 2021 , 150, 105962	4.8	8
363	Effect of Annealing Temperature on Structural Phase Transformations and Band Gap Reduction for Photocatalytic Activity of Mesopores TiO ₂ Nanocatalysts. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1312-1322	3.2	8
362	Lignocellulosic biomass to biobutanol: Toxic effects and response mechanism of the combined stress of lignin-derived phenolic acids and phenolic aldehydes to <i>Clostridium acetobutylicum</i> . <i>Industrial Crops and Products</i> , 2021 , 170, 113722	5.9	8
361	Microbial inhabitants of agricultural land have potential to promote plant growth but they are liable to traditional practice of wheat (<i>T. aestivum</i> L) straw burning. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 18, 101060	4.2	7
360	Two-dimensional nanosheets functionalized water-borne polyurethane nanocomposites with improved mechanical and anti-corrosion properties. <i>Inorganic and Nano-Metal Chemistry</i> , 2020 , 50, 1358-1366	1.3	7
359	Adsorption/desorption characteristics, separation and purification of phenazine-1-carboxylic acid from fermentation extract by macroporous adsorbing resins. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 3176-3184	3.5	7
358	Hydrogen-based catalyst-assisted advanced oxidation processes to mitigate emerging pharmaceutical contaminants. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	7
357	Advanced catalytic ozonation for degradation of pharmaceutical pollutants-A review. <i>Chemosphere</i> , 2021 , 289, 133208	8.4	7

356	Integrated biorefinery approach to valorize citrus waste: A sustainable solution for resource recovery and environmental management.. <i>Chemosphere</i> , 2022 , 293, 133459	8.4	7
355	Omics Technologies for Microalgae-based Fuels and Chemicals: Challenges and Opportunities. <i>Protein and Peptide Letters</i> , 2018 , 25, 99-107	1.9	7
354	Strategic Measures for Food Processing and Manufacturing Facilities to Combat Coronavirus Pandemic (COVID-19). <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1087-1094	0.9	7
353	Exploring the potential of ligninolytic armory for lignin valorization [A way forward for sustainable and cleaner production. <i>Journal of Cleaner Production</i> , 2021 , 326, 129420	10.3	7
352	Stimuli-responsive nanoliposomes as prospective nanocarriers for targeted drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 66, 102916	4.5	7
351	Bionanocomposites from Biofibers and Biopolymers 2020 , 135-157		7
350	Metabolic engineering of for thermoresistance and enhanced erythritol productivity. <i>Biotechnology for Biofuels</i> , 2020 , 13, 176	7.8	7
349	Therapeutic and Biomedical Potentialities of Terpenoids [A Review. <i>Journal of Pure and Applied Microbiology</i> , 2021 , 15, 471-483	0.9	7
348	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
347	Various strategies applied for the removal of emerging micropollutant sulfamethazine: a systematic review. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	7
346	Immobilized Soybean Peroxidase Hybrid Biocatalysts for Efficient Degradation of Various Emerging Pollutants. <i>Biomolecules</i> , 2021 , 11,	5.9	7
345	Hyper-production optimization of fungal oxidative green enzymes using citrus low-cost byproduct. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105013	6.8	7
344	Quercetin-loaded F127 nanomicelles: Antioxidant activity and protection against renal injury induced by gentamicin in rats. <i>Life Sciences</i> , 2021 , 276, 119420	6.8	7
343	Hybrid Nanofluids as Renewable and Sustainable Colloidal Suspensions for Potential Photovoltaic/Thermal and Solar Energy Applications. <i>Frontiers in Chemistry</i> , 2021 , 9, 737033	5	7
342	Bioconversion of Agro-Industrial Waste into Value-Added Compounds. <i>Advances in Science, Technology and Innovation</i> , 2021 , 349-368	0.3	7
341	Self-assembly of artificial peroxidase mimics from alternating copolymers with chromogenic and biocatalyst potentialities. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 315-323	6.3	6
340	Improving whole-cell biocatalysis for helcid benzoylation by the addition of ionic liquids. <i>Biochemical Engineering Journal</i> , 2020 , 161, 107695	4.2	6
339	Theoretical investigation of thermoelectric and elastic properties of intermetallic compounds ScTM (TM = Cu, Ag, Au and Pd). <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850004	1.1	6

338	Lignocellulose-degrading enzyme production by <i>Pleurotus sapidus</i> WC 529 and its application in lignin degradation / Lignoselbuz-2020 Enzim Etiminde <i>Pleurotus sapidus</i> WC 529 ve lignin parçalanmasındaki uygulamalar <i>Turkish Journal of Biochemistry</i> , 2016 , 41,	0.3	6
337	Significant effect of NSP-ase enzyme supplementation in sunflower meal-based diet on the growth and nutrient digestibility in broilers. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017 , 101, 222-228	2.6	6
336	Novel Perspectives towards RNA-Based Nano-Theranostic Approaches for Cancer Management.. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
335	Microbial bioremediation strategies with wastewater treatment potentialities - A review. <i>Science of the Total Environment</i> , 2021 , 818, 151754	10.2	6
334	Challenges and Recent Advances in Enzyme-Mediated Wastewater Remediation-A Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
333	Engineered Hybrid Materials with Smart Surfaces for Effective Mitigation of Petroleum-originated Pollutants. <i>Engineering</i> , 2020 , 7, 1492-1492	9.7	6
332	Fungal lignin-modifying enzymes induced by vinasse mycodegradation and its relationship with oxidative stress. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 27, 101691	4.2	6
331	Photo-oxidative degradation of organo-functionalized vermiculite clay-reinforced polyimide composites. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 3725-3733	3.3	6
330	Risk management strategies and therapeutic modalities to tackle COVID-19/SARS-CoV-2. <i>Journal of Infection and Public Health</i> , 2021 , 14, 331-346	7.4	6
329	Calcination temperature-driven antibacterial and antioxidant activities of fumaria indica mediated copper oxide nanoparticles: characterization. <i>Chemical Papers</i> , 2021 , 75, 4189-4198	1.9	6
328	Lignin-modifying enzymes: a green and environmental responsive technology for organic compound degradation. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	6
327	Production of a fermented solid containing lipases from <i>Penicillium roqueforti</i> ATCC 10110 and its direct employment in organic medium in ethyl oleate synthesis. <i>Biotechnology and Applied Biochemistry</i> , 2021 ,	2.8	6
326	Studies on Biological Production of Isomaltulose Using Sucrose Isomerase: Current Status and Future Perspectives. <i>Catalysis Letters</i> , 2021 , 151, 1868-1881	2.8	6
325	Reduction of hexavalent chromium by <i>Microbacterium paraoxydans</i> isolated from tannery wastewater and characterization of its reduced products. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101748	6.7	6
324	Adsorptive Mechanism of Chromium Adsorption on Siltstone Nanomagnetite Biochar Composite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1608-1620	3.2	6
323	Sustainable Production of Thermostable Laccase from Agro-Residues Waste by <i>Bacillus aquimaris</i> AKRC02. <i>Catalysis Letters</i> ,1	2.8	6
322	Tailored functional materials as robust candidates to mitigate pesticides in aqueous matrices-a review. <i>Chemosphere</i> , 2021 , 282, 131056	8.4	6
321	Application of Green Gold Nanoparticles in Cancer Therapy and Diagnosis.. <i>Nanomaterials</i> , 2022 , 12,	5.4	6

320	Recent trends in mesoporous silica nanoparticles of rode-like morphology for cancer theranostics: A review. <i>Journal of Molecular Structure</i> , 2022 , 1261, 132922	3.4	6
319	A novel and highly regioselective biocatalytic approach to acetylation of helicid by using whole-cell biocatalysts in organic solvents. <i>Catalysis Communications</i> , 2019 , 128, 105707	3.2	5
318	Morphophysiological and Comparative Metabolic Profiling of Purslane Genotypes (L.) under Salt Stress. <i>BioMed Research International</i> , 2020 , 2020, 4827045	3	5
317	Assessment of multidrug resistance in bacterial isolates from urinary tract-infected patients. <i>Journal of Radiation Research and Applied Sciences</i> , 2020 , 13, 267-275	1.5	5
316	Systematically engineering Escherichia coli for enhanced shikimate biosynthesis co-utilizing glycerol and glucose. <i>Biofuels, Bioproducts and Biorefining</i> , 2018 , 12, 348-361	5.3	5
315	Developing a deeper insight into reproductive biomarkers. <i>Clinical and Experimental Reproductive Medicine</i> , 2017 , 44, 159-170	2.2	5
314	ROLE OF TOLL-LIKE RECEPTORS IN CORONAVIRUS INFECTION AND IMMUNE RESPONSE. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2020 , 8, S66-S78	0.6	5
313	Sorptive removal of malachite green dye by activated charcoal: Process optimization, kinetic, and thermodynamic evaluation. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100025	7.5	5
312	Biocatalytic remediation of pharmaceutically active micropollutants for environmental sustainability. <i>Environmental Pollution</i> , 2021 , 293, 118582	9.3	5
311	Application of machine learning in anaerobic digestion: Perspectives and challenges. <i>Bioresource Technology</i> , 2021 , 345, 126433	11	5
310	Thermostable trypsin-like protease by Penicillium roqueforti secreted in cocoa shell fermentation: Production optimization, characterization, and application in milk clotting. <i>Biotechnology and Applied Biochemistry</i> , 2021 ,	2.8	5
309	Fabrication and Characterization of Zinc Titanate Heterojunction for Adsorption and Photocatalytic Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 4944-4953	3.2	5
308	Enhanced visible light driven Photocatalytic activity of MnO ₂ nanomaterials and their hybrid structure with carbon nanotubes. <i>Materials Research Express</i> , 2020 , 7, 105015	1.7	5
307	Perspectives on the Feasibility of Using Enzymes for Pharmaceutical Removal in Wastewater. <i>Handbook of Environmental Chemistry</i> , 2020 , 119-143	0.8	5
306	Current perspective on diagnosis, epidemiological assessment, prevention strategies, and potential therapeutic interventions for severe acute respiratory infections caused by 2019 novel coronavirus (SARS-CoV-2). <i>Human Vaccines and Immunotherapeutics</i> , 2020 , 16, 3001-3010	4.4	5
305	Sources of Pharmaceuticals in Water. <i>Handbook of Environmental Chemistry</i> , 2020 , 33	0.8	5
304	Ligninolysis Potential of Ligninolytic Enzymes: A Green and Sustainable Approach to Bio-transform Lignocellulosic Biomass into High-Value Entities. <i>Handbook of Environmental Chemistry</i> , 2020 , 151-171	0.8	5
303	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> , 2021 , 61, 3537-3554	11.5	5

302	Engineering novel gold nanoparticles using Sageretia thea leaf extract and evaluation of their biological activities. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	5
301	Monitoring microbial contamination of antibiotic resistant Escherichia coli isolated from the surface water of urban park in southeastern Brazil. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021 , 15, 100438	3.3	5
300	Sustainable Production, Optimization, and Partial Characterization of Exopolysaccharides by <i>Macrococcus brunensis</i> . <i>Waste and Biomass Valorization</i> ,1	3.2	5
299	Investigation of Characteristics of Long Runout Landslides Based on the Multi-source Data Collaboration: A Case Study of the Shuicheng Basalt Landslide in Guizhou, China. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 3783-3798	5.7	5
298	Nanoclay/Polymer-Based Hydrogels and Enzyme-Loaded Nanostructures for Wound Healing Applications. <i>Gels</i> , 2021 , 7,	4.2	5
297	Seasonal Dynamics of Microbial Contamination and Antibiotic Resistance in the Water at the Tiet" Ecological Park, Brazil. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	5
296	Fabrication and characterization of inverse opal tin dioxide as a novel and high-performance photocatalyst for degradation of Rhodamine B dye. <i>Inorganic and Nano-Metal Chemistry</i> , 2021 , 51, 150-158	1.2	5
295	Recent advances on engineered enzyme-conjugated biosensing modalities and devices for halogenated compounds. <i>TRAC - Trends in Analytical Chemistry</i> , 2021 , 134, 116145	14.6	5
294	Application of the electrochemical biosensor in the detection of lactose in skimmed milk. <i>Surfaces and Interfaces</i> , 2021 , 22, 100839	4.1	5
293	Investigation on Cadmium Ions Removal from Water by a Nanomagnetite Based Biochar Derived from <i>Eleocharis Dulcis</i> . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 415-423	3.2	5
292	Design and Processing Aspects of Polymer and Composite Materials 2018 , 155-189		5
291	Revisiting photo and electro-catalytic modalities for sustainable conversion of CO ₂ . <i>Applied Catalysis A: General</i> , 2021 , 623, 118248	5.1	5
290	Insight of nanomedicine strategies for a targeted delivery of nanotherapeutic cues to cope with the resistant types of cancer stem cells. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 64, 102681	4.5	5
289	Valorization of cassava residues for biogas production in Brazil based on the circular economy: An updated and comprehensive review. <i>Cleaner Engineering and Technology</i> , 2021 , 4, 100196	2.7	5
288	Industrial applications of immobilized nano-biocatalysts. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 1	3.7	5
287	Prospecting carbon-based nanomaterials for the treatment and degradation of endocrine-disrupting pollutants.. <i>Chemosphere</i> , 2022 , 134172	8.4	5
286	Recent advances of biosurfactant for waste and pollution bioremediation: Substitutions of petroleum-based surfactants.. <i>Environmental Research</i> , 2022 , 113126	7.9	5
285	Changes in Availability of Plant Nutrients during Composting of Cow Manure with Poplar Leaf Litter. <i>Compost Science and Utilization</i> , 2017 , 25, 242-250	1.2	4

284	Development and Optimization of Attapulgite Clay Based Microencapsulation for Lactic Acid Bacteria by Response Surface Methodology. <i>International Journal of Food Engineering</i> , 2019 , 15,	1.9	4
283	Transportation fate and removal of microplastic pollution [A perspective on environmental pollution. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100015	7.5	4
282	Constitutive expression of Asparaginase in <i>Gossypium hirsutum</i> triggers insecticidal activity against <i>Bemisia tabaci</i> . <i>Scientific Reports</i> , 2020 , 10, 8958	4.9	4
281	A Novel Insight into the Adsorption Interactions of Arsenate with a FeBi Binary Oxide. <i>Colloid Journal</i> , 2019 , 81, 469-477	1.1	4
280	Antimicrobial Activities of Monoesters of Succinic Acid. <i>Asian Journal of Chemistry</i> , 2014 , 26, 8025-8028	0.4	4
279	Industrial Water Contamination and Health Impacts: An Economic Perspective. <i>Polish Journal of Environmental Studies</i> , 2016 , 25, 765-775	2.3	4
278	Potential of Phytase and Citric Acid Treated Canola Meal Based Diet to Enhance the Minerals Digestibility in <i>Labeo rohita</i> Fingerlings. <i>Pakistan Journal of Zoology</i> , 2018 , 50,	1.7	4
277	Carbon nanomaterials as emerging nanotherapeutic platforms to tackle the rising tide of cancer - A review. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 51, 116493	3.4	4
276	Undiagnosed Hepatitis B and C Virus Infection at a Teaching Hospital in Rawalpindi. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1279-1286	0.9	4
275	Removal of Pb(II) from wastewater using activated carbon prepared from the seeds of <i>Reptonia buxifolia</i> . <i>Journal of the Serbian Chemical Society</i> , 2020 , 85, 265-277	0.9	4
274	Oxidative photo-catalyzed degradation of a new biological fungicide, phenazine-1-carboxylic acid115, 207-212		4
273	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
272	Overexpression of a Sucrose Synthase Gene Indirectly Improves Cotton Fiber Quality Through Sucrose Cleavage. <i>Frontiers in Plant Science</i> , 2020 , 11, 476251	6.2	4
271	Neurological and cognitive significance of probiotics: a holy grail deciding individual personality. <i>Future Microbiology</i> , 2020 , 15, 1059-1074	2.9	4
270	Recent advances in therapeutic modalities and vaccines to counter COVID-19/SARS-CoV-2. <i>Human Vaccines and Immunotherapeutics</i> , 2020 , 16, 3034-3042	4.4	4
269	Valorization of locally available waste plant leaves for production of tannase and gallic acid by solid-state fermentation. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	4
268	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
267	Oxidoreductases as a versatile biocatalytic tool to tackle pollutants for clean environment [A review. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 ,	3.5	4

266	Role of receptor tyrosine kinases mediated signal transduction pathways in tumor growth and angiogenesis-New insight and futuristic vision. <i>International Journal of Biological Macromolecules</i> , 2021 , 180, 739-752	7.9	4
265	Novel bio-fabrication of silver nanoparticles using the cell-free extract of <i>Lysinibacillus fusiformis</i> sp. and their potent activity against pathogenic fungi. <i>Materials Research Express</i> , 2019 , 6, 1250f2	1.7	4
264	Immuno-toxicological effects of different sub-lethal doses of thiamethoxam (TMX) in broiler birds. <i>Toxin Reviews</i> , 2019 , 38, 200-205	2.3	4
263	Remediation of Chromium (VI) and Rhodamine 6G via Mixed Phase Nickel-Zinc Nanocomposite: Synthesis and Characterization. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1565-1575	3.2	4
262	Sustainable Hydrates for Enhanced Carbon Dioxide Capture from an Integrated Gasification Combined Cycle in a Fixed Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11346-11356	3.9	4
261	Cottonseed oil: A review of extraction techniques, physicochemical, functional, and nutritional properties. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-19	11.5	4
260	Synthesis of Zeolite supported bimetallic catalyst and application in n-hexane hydro-isomerization using supercritical CO ₂ . <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105206	6.8	4
259	Nanotherapeutic approach to tackle chemotherapeutic resistance of cancer stem cells. <i>Life Sciences</i> , 2021 , 279, 119667	6.8	4
258	Effective remediation of petrochemical originated pollutants using engineered materials with multifunctional entities. <i>Chemosphere</i> , 2021 , 278, 130405	8.4	4
257	Organometallic pollutants of paper mill wastewater and their toxicity assessment on Stinging catfish and sludge worm. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101831	7	4
256	Dynamics of soliton solutions in saturated ferromagnetic materials by a novel mathematical method. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 538, 168245	2.8	4
255	Assessment of antimicrobial, antioxidant and cytotoxicity properties of <i>Camellia sinensis</i> L. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2018 , 31, 1285-1291	0.4	4
254	Fluorescent-based nanosensors for selective detection of a wide range of biological macromolecules: A comprehensive review.. <i>International Journal of Biological Macromolecules</i> , 2022 , 197, 118777	7.9	4
253	Occurrence, toxicity impacts and mitigation of emerging micropollutants in the aquatic environments: Recent tendencies and perspectives. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107598	6.8	4
252	Carbon dots-based nanomaterials for fluorescent sensing of toxic elements in environmental samples: Strategies for enhanced performance.. <i>Chemosphere</i> , 2022 , 300, 134515	8.4	4
251	Bioprospecting microalgae and cyanobacteria for biopharmaceutical applications.. <i>Journal of Basic Microbiology</i> , 2021 , 161, 1217-1227	2.7	4
250	Development of 2,4-dinitrophenylhydrazine-modified carbon paste electrode for highly sensitive electrochemical sensing of amino acids. <i>Monatshefte Für Chemie</i> , 2020 , 151, 505-510	1.4	3
249	Isolation, Identification and Antimicrobial Evaluation of Bactericides Secreting <i>Bacillus subtilis</i> Natto as a Biocontrol Agent. <i>Processes</i> , 2020 , 8, 259	2.9	3

248	Efficient production of butyric acid by <i>Clostridium tyrobutyricum</i> immobilized in an internal fibrous bed bioreactor (IFBB). <i>Biochemical Engineering Journal</i> , 2020 , 157, 107552	4.2	3
247	Catalytic Performance of a Robust Whole-Cell Biocatalyst in the Regioselective Synthesis of Helicid Esters Under Optimized Processing Conditions. <i>Catalysis Letters</i> , 2020 , 150, 1841-1848	2.8	3
246	Sustainable Biotransformation of Oleic Acid to 10-Hydroxystearic Acid by a Recombinant Oleate Hydratase from <i>Lactococcus garvieae</i> . <i>Processes</i> , 2019 , 7, 326	2.9	3
245	Prospects of microbial polysaccharides-based hybrid constructs for biomimicking applications.. <i>Journal of Basic Microbiology</i> , 2022 ,	2.7	3
244	Investigating the Electrocoagulation Treatment of Landfill Leachate by Iron/Graphite Electrodes: Process Parameters and Efficacy Assessment. <i>Water (Switzerland)</i> , 2022 , 14, 205	3	3
243	Potential biomarkers for the diagnosis of respiratory tract infection and lungs cancer. <i>Cellular and Molecular Biology</i> , 2017 , 63, 46-52	1.1	3
242	Effectiveness of Acidification and Phytase Pretreatment on Growth Performance, Muscle Proximate Composition and Nutrient Digestibility of Rohu (<i>Labeo rohita</i> , Hamilton 1822) Juveniles Fed Soybean Meal Based Diet. <i>Pakistan Journal of Zoology</i> , 2019 , 51,	1.7	3
241	A REAL-TIME UPDATED PORTRAYAL OF COVID-19 DIAGNOSIS AND THERAPEUTIC OPTIONS. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2020 , 8, S21-S33	0.6	3
240	SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUSES AND 21ST CENTURY PANDEMIC: AN OVERVIEW OF FUNCTIONAL RECEPTORS AND CHALLENGE OF THERAPEUTIC SUCCESS. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2020 , 8, S87-S102	0.6	3
239	Separation and remediation of environmental pollutants using metal-organic framework-based tailored materials. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	3
238	Nanohybrids-assisted photocatalytic removal of pharmaceutical pollutants to abate their toxicological effects - A review. <i>Chemosphere</i> , 2021 , 291, 133056	8.4	3
237	MXene-based hybrid composites as photocatalyst for the mitigation of pharmaceuticals. <i>Chemosphere</i> , 2021 , 133062	8.4	3
236	Synthesis of ternary-based visible light nano-photocatalyst for decontamination of organic dyes-loaded wastewater. <i>Chemosphere</i> , 2021 , 289, 133121	8.4	3
235	Phytochemistry and Diverse Pharmacology of Genus : A Review.. <i>Biomolecules</i> , 2022 , 12,	5.9	3
234	Therapeutic Modalities for Sars-Cov-2 (Covid-19): Current Status and Role of Protease Inhibitors to Block Viral Entry Into Host Cells. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1695-1703	0.9	3
233	Ecotoxicological Assessment and Environmental Risk of the Insecticide Chlorpyrifos for Aquatic Neotropical Indicators. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	3
232	Microbial Peroxidases and Their Unique Catalytic Potentialities to Degrade Environmentally Related Pollutants. <i>Microorganisms for Sustainability</i> , 2020 , 1-24	1.1	3
231	Physicochemical features and structural analysis of xanthine oxidase as a potential therapeutic target to prevent gout. <i>Journal of Radiation Research and Applied Sciences</i> , 2020 , 13, 616-628	1.5	3

230	Eco-Friendly and Solvent-Less Mechanochemical Synthesis of ZrO ₂ /MnCO ₃ /N-Doped Graphene Nanocomposites: A Highly Efficacious Catalyst for Base-Free Aerobic Oxidation of Various Types of Alcohols. <i>Catalysts</i> , 2020 , 10, 1136	4	3
229	Environmentally friendly color stripping of solar golden yellow R dyed cotton fabric by ligninolytic consortia from <i>Ganoderma lucidum</i> IBL-05. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100031	7.5	3
228	spp. as cell factories (MCFs) for value-added products: from rational design to industrial applications. <i>Critical Reviews in Biotechnology</i> , 2020 , 40, 1232-1249	9.4	3
227	Gums-Based Bionanostructures for Medical Applications 2021 , 385-398		3
226	Immunological aspects and gender bias during respiratory viral infections including novel Coronavirus disease-19 (COVID-19): A scoping review. <i>Journal of Medical Virology</i> , 2021 , 93, 5295-5309	19.7	3
225	Structure-based experimental and theoretical analysis of <i>Ricinus communis</i> for their HepG2 human carcinoma cell line inhibitors. <i>Process Biochemistry</i> , 2021 , 104, 152-160	4.8	3
224	Novel sulfonated polyimide-nafion nanocomposite membranes: Fabrication, morphology and physiochemical investigations for fuel cell applications. <i>Journal of Molecular Structure</i> , 2021 , 1231, 129940	2.4	3
223	Chitosan-Based Materials as Edible Coating of Cheese: A Review. <i>Starch/Staerke</i> , 2021 , 73, 2100088	2.3	3
222	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
221	Kinetics, mechanism, and identification of photodegradation products of phenazine-1-carboxylic acid. <i>Environmental Technology (United Kingdom)</i> , 2020 , 41, 1848-1856	2.6	3
220	Emerging contaminants in environment: occurrence, toxicity, and management strategies with emphasis on microbial remediation and advanced oxidation processes 2021 , 1-14		3
219	Photo-Catalytic and Anti-microbial Activities of rGO/CuO Nanocomposite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1359-1372	3.2	3
218	Biochemical conversion of lignocellulosic waste into renewable energy 2021 , 147-171		3
217	Development of broad-spectrum and sustainable resistance in cotton against major insects through the combination of Bt and plant lectin genes. <i>Plant Cell Reports</i> , 2021 , 40, 707-721	5.1	3
216	Poly(vinyl Alcohol)-Alginate Immobilized <i>Trametes versicolor</i> IBL-04 Laccase as Eco-friendly Biocatalyst for Dyes Degradation. <i>Catalysis Letters</i> , 2021 , 1	2.8	3
215	Nanotechnology-based immunotherapies to combat cancer metastasis. <i>Molecular Biology Reports</i> , 2021 , 48, 6563-6580	2.8	3
214	New biodegradable film produced from cocoa shell nanofibrils containing bioactive compounds 2021 , 18, 1613		3
213	Current scenario of COVID-19 vaccinations and immune response along with antibody titer in vaccinated inhabitants of different countries. <i>International Immunopharmacology</i> , 2021 , 99, 108050	5.8	3

212	Multifunctional 3D-printed platform integrated with a smartphone ambient light sensor for halocarbon contaminants monitoring. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101883	7	3
211	Repurposing the inhibitors of COVID-19 key proteins through molecular docking approach. <i>Process Biochemistry</i> , 2021 , 110, 216-222	4.8	3
210	Laccase-loaded functionalized graphene oxide assemblies with improved biocatalytic properties and decolorization performance. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101884	7	3
209	Optimization of process variables for enhanced production of extracellular lipase by <i>Pleurotus ostreatus</i> IBL-02 in solid-state fermentation. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2019 , 32, 617-624	8.4	3
208	Carrageenan-Based Hybrids with Biopolymers and Nano-Structured Materials for Biomimetic Applications. <i>Starch/Staerke</i> , 2200018	2.3	3
207	Exploring Marine as a Rich Source of Bioactive Peptides: Challenges and Opportunities from Marine Pharmacology.. <i>Marine Drugs</i> , 2022 , 20,	6	3
206	Bioprospecting lignin biomass into environmentally friendly polymers Applied perspective to reconcile sustainable circular bioeconomy. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	3
205	Biochar-based composites for remediation of polluted wastewater and soil environments: Challenges and prospects.. <i>Chemosphere</i> , 2022 , 297, 134163	8.4	3
204	Nano-remediation technologies for the sustainable mitigation of persistent organic pollutants.. <i>Environmental Research</i> , 2022 , 211, 113060	7.9	3
203	SnO ₂ Co-doped with Co and Ni: Synthesis, Characterization, and Catalytic Properties in Reduction of 4-Nitrophenol. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 1778-1782	0.7	2
202	Quantification of rare earth elements with low pressure laser induced breakdown spectroscopy employing subtarget supported micro mesh sample holder. <i>Journal of Laser Applications</i> , 2019 , 31, 0320011	2.1	2
201	Synergistic effect of inhibitors (allylthiourea and 1,2,4-triazole) on the activity of wheat soil urease to reduce nitrogen loss. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100059	7.5	2
200	Isolation of bioactive compounds from <i>Rumex hastatus</i> extract and their biological evaluation and docking study as potential anti-oxidant and anti-urease agents. <i>Journal of Food Biochemistry</i> , 2020 , 44, e13320	3.3	2
199	Comparison of excitation mechanisms and the corresponding emission spectra in femto second and nano second laser-induced breakdown spectroscopy in reduced ambient air and their performances in surface analysis. <i>Journal of Laser Applications</i> , 2020 , 32, 012014	2.1	2
198	Spatial Drought Monitoring in Thar Desert Using Satellite-Based Drought Indices and Geo-Informatics Techniques. <i>Proceedings (mdpi)</i> , 2018 , 2, 179	0.3	2
197	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> , 2022 , 14, 1040	3.6	2
196	Functionalized nanoparticles and their environmental remediation potential: a review. <i>Journal of Nanostructure in Chemistry</i> , 2022 , 1	7.6	2
195	Nanomaterial-immobilized lipases for sustainable recovery of biodiesel A review. <i>Fuel</i> , 2022 , 316, 123429	7.1	2

194	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> , 2021 , 1	5.1	2
193	Bio-applications and biotechnological applications of nanodiamonds. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 6175-6189	5.5	2
192	Biodegradable polymeric conduits: Platform materials for guided nerve regeneration and vascular tissue engineering. <i>Journal of Drug Delivery Science and Technology</i> , 2022 , 67, 103014	4.5	2
191	In silico analytical toolset for predictive degradation and toxicity of hazardous pollutants in water sources.. <i>Chemosphere</i> , 2021 , 292, 133250	8.4	2
190	Process Optimization of Hazardous Malachite Green (MG) Adsorption onto White Cedar Waste: Isotherms, Kinetics and Thermodynamic Studies. <i>Current Analytical Chemistry</i> , 2017 , 13,	1.7	2
189	ARSENIC REMEDIATION OF AQUEOUS MEDIA USING PINUS ROXBURGHII SARG. (PINOPHYTA) BARK. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 891-898	0.6	2
188	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review.. <i>Journal of Advanced Research</i> , 2022 , 38, 157-177	13	2
187	Enzyme-assisted bioremediation approach for synthetic dyes and polycyclic aromatic hydrocarbons degradation. <i>Journal of Basic Microbiology</i> , 2021 , 61, 960-981	2.7	2
186	Hazardous wastes, adverse impacts, and management strategies: a way forward to environmental sustainability. <i>Environment, Development and Sustainability</i> ,1	4.5	2
185	Plant-based nanoparticles prepared from protein containing tribenuron-methyl: fabrication, characterization, and application. <i>Chemical and Biological Technologies in Agriculture</i> , 2021 , 8,	4.4	2
184	CAN UNCONVENTIONAL MEAT OR BUSHMEAT ACT AS A SOURCE FOR SARS-COV-2. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2020 , 8, 709-720	0.6	2
183	Microbial degradation of environmental pollutants 2022 , 509-528		2
182	Laccase-Mediated Bioremediation of Dye-Based Hazardous Pollutants. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 137-160	0.8	2
181	Rheological properties, structural and thermal elucidation of coal-tar pitches used in the fabrication of multi-directional carbon-carbon composites. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122564	4.4	2
180	Preparation and Nanoencapsulation of Lectin from on Chitosan-Tripolyphosphate Nanoparticle and Their Cytotoxicity against Hepatocellular Carcinoma Cells (HepG2). <i>BioMed Research International</i> , 2020 , 2020, 7251346	3	2
179	Treatment of lymphomas via regulating the Signal transduction pathways by natural therapeutic approaches: A review. <i>Leukemia Research</i> , 2021 , 104, 106554	2.7	2
178	Biochemical evidence of epicuticular wax compounds involved in cotton-whitefly interaction. <i>PLoS ONE</i> , 2021 , 16, e0250902	3.7	2
177	Broadening the Catalytic Role of Enzymes in Cosmeceutical Sector: A Robust Tool from White Biotechnology. <i>Catalysis Letters</i> , 2022 , 1	2.8	2

176	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
175	Efficacy of low-level laser therapy in nerve injury repair-a new era in therapeutic agents and regenerative treatments. <i>Neurological Sciences</i> , 2021 , 42, 4029-4043	3.5	2
174	Effects of cpxR on the growth characteristics and antibiotic production of <i>Xenorhabdus nematophila</i> . <i>Microbial Biotechnology</i> , 2019 , 12, 447-458	6.3	2
173	Synthesis and Characterization of rGO/Ag ₂ O Nanocomposite and its Use for Catalytic Reduction of 4-Nitrophenol and Photocatalytic Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 100-111	3.2	2
172	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> , 2021 , 52, 842-858	1.9	2
171	Kinetic and thermodynamic characterization of lipase from <i>Aspergillus melleus</i> and its biocatalytic performance for degradation of poly(ϵ -caprolactone). <i>Journal of Chemical Technology and Biotechnology</i> , 2021 ,	3.5	2
170	Biopolymer-based sorbents for emerging pollutants 2021 , 463-491		2
169	Down Regulation of Potato Virus Y (PVY) Coat Protein (CP) Expression by <i>Iberis gibraltarica</i> Protein Extract. <i>Cytology and Genetics</i> , 2021 , 55, 80-86	0.7	2
168	A comparative analysis of attabad landslide on january 4, 2010, using two numerical models. <i>Natural Hazards</i> , 2021 , 107, 519-538	3	2
167	Fabrication, morphological, structural and electrochemical characterization of sulfonated polyimide/clay-based hybrid nanocomposite membranes for energy application. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	2
166	Deciphering the impact of novel coronavirus pandemic on agricultural sustainability, food security, and socio-economic sectors-a review. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 49410-49424	5.1	2
165	Distribution of hepatitis C virus genotypes in Punjab region, Pakistan, based on a study of 4177 specimens. <i>Infection, Genetics and Evolution</i> , 2021 , 91, 104811	4.5	2
164	Engineered tyrosinases with broadened bio-catalysis scope: immobilization using nanocarriers and applications. <i>3 Biotech</i> , 2021 , 11, 365	2.8	2
163	Physicochemical, Photocatalytic, Antibacterial, and Antioxidant Screening of <i>Bergenia Ciliata</i> Mediated Nickel Oxide Nanoparticles. <i>Crystals</i> , 2021 , 11, 1137	2.3	2
162	Formulation, characterization, and pharmacokinetic evaluation of Ivabradine-Nebivolol co-encapsulated lipospheres. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117704	6	2
161	Expanding the bio-catalysis scope and applied perspectives of nanocarrier immobilized asparaginases. <i>3 Biotech</i> , 2021 , 11, 453	2.8	2
160	Exploring the role of Black Soldier Fly Larva technology for sustainable management of municipal solid waste in developing countries. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101934	7	2
159	Efficient removal of EDTA-chelated Cu(II) by zero-valent iron and peroxydisulfate: Mutual activation process. <i>Separation and Purification Technology</i> , 2021 , 279, 119721	8.3	2

158	Plant-Mediated Green Synthesis of Nanoparticles. <i>Advances in Science, Technology and Innovation</i> , 2021 , 75-89	0.3	2
157	Enhancing Lipase Biosynthesis by <i>Aspergillus Melleus</i> and its Biocatalytic Potential for Degradation of Polyester Vylon-200. <i>Catalysis Letters</i> , 2021 , 151, 2257	2.8	2
156	Functionalized polymeric nanomaterials for environmental remediation 2021 , 3-28		2
155	Antimicrobial, antioxidant, cytotoxicity and LC-MS analyses of <i>Aerva javanica</i> : an ethnomedicinally important plant. <i>Journal of Biological Regulators and Homeostatic Agents</i> , 2017 , 31, 963-969	0.7	2
154	Electroactive polymeric nanocomposite BC-g-(Fe ₃ O ₄ /GO) materials for bone tissue engineering: In-vitro evaluations.. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022 , 1-16	3.5	2
153	Prophylactic and therapeutic insights into trained immunity: A renewed concept of innate immune memory.. <i>Human Vaccines and Immunotherapeutics</i> , 2022 , 1-19	4.4	2
152	Application of nanomaterials for enhanced production of biodiesel, biooil, biogas, bioethanol, and biohydrogen via lignocellulosic biomass transformation. <i>Fuel</i> , 2022 , 315, 122840	7.1	2
151	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> , 2022 , 113276	7.9	2
150	Chitosan nanocarriers for microRNA delivery and detection: A preliminary review with emphasis on cancer.. <i>Carbohydrate Polymers</i> , 2022 , 290, 119489	10.3	2
149	Gums-based engineered bio-nanostructures for greening the 21st-century biotechnological settings. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-17	11.5	2
148	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. <i>Crystals</i> , 2022 , 12, 614	2.3	2
147	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
146	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. <i>Bioresource Technology</i> , 2022 , 355, 127303	11	2
145	Digging and identification of novel microorganisms from the soil environments with high methanol-tolerant lipase production for biodiesel preparation. <i>Environmental Research</i> , 2022 , 113570	7.9	2
144	Isolation, characterization, virulence and immunogenicity testing of field isolates of <i>Pasteurella multocida</i> , <i>Staphylococcus aureus</i> , and <i>Streptococcus agalactiae</i> in laboratory settings. <i>Acta Tropica</i> , 2017 , 172, 70-74	3.2	1
143	Deciphering the adult brain development complexity by single-cell transcriptome analysis: a review. <i>Materials Today Chemistry</i> , 2019 , 13, 88-97	6.2	1
142	Synthesis, Crystal Structure, and Nonlinear Optical Properties of Zn(II) Complex with 4,4',4''-Tri-tert-Butyl-2,2':6',2''-Terpyridine: A Dual Exploration. <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 368-377	1.5	1
141	Nanomaterials for bioremediation of air pollution 2022 , 243-261		1

140	Investigation of the Biological Applications of Biosynthesized Nickel Oxide Nanoparticles Mediated by <i>Buxus wallichiana</i> Extract. <i>Crystals</i> , 2022 , 12, 146	2.3	1
139	Carrier-Free Cross-linked Laccase Crystals for Biocatalytic Degradation of Textile Industrial Effluents.. <i>Applied Biochemistry and Biotechnology</i> , 2022 , 1	3.2	1
138	Tumor-derived extracellular vesicles: Potential tool for cancer diagnosis, prognosis, and therapy.. <i>Saudi Journal of Biological Sciences</i> , 2022 , 29, 2063-2071	4	1
137	Purification and functional characterization of lectin from <i>Chenopodium album</i> . <i>Journal of Proteins and Proteomics</i> , 2022 , 13, 55	1.8	1
136	Stem Cells and Tissue Engineering-Based Therapeutic Interventions: Promising Strategies to Improve Peripheral Nerve Regeneration.. <i>Cellular and Molecular Neurobiology</i> , 2022 , 1	4.6	1
135	Nanomaterials for removal of heavy metals from wastewater 2022 , 135-161		1
134	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> , 2021 , 8,	5.2	1
133	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> , 2021 , 25, 5947-5964	3.9	1
132	Immobilized Enzyme-Based Biocatalytic Cues 2019 , 287-311		1
131	Dendritic Cell-Targeted Therapies to Treat Neurological Disorders. <i>Molecular Neurobiology</i> , 2021 , 1	6.2	1
130	Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. <i>Gels</i> , 2021 , 7,	4.2	1
129	Negative and positive environmental perspective of COVID-19: air, water, wastewater, forest, and noise quality. <i>Egyptian Journal of Basic and Applied Sciences</i> , 2021 , 8, 364-384	1.3	1
128	Laccase-assisted biosensing constructs [Robust modalities to detect and remove environmental contaminants. <i>Case Studies in Chemical and Environmental Engineering</i> , 2022 , 5, 100180	7.5	1
127	PREDICTING COVID-19 INFECTIONS PREVALENCE USING LINEAR REGRESSION TOOL. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2020 , 8, S01-S08	0.6	1
126	A Case Report of Pregnant Lady having COVID-19 Delivered via Cesarean Section in Tertiary Care Hospital in Pakistan. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1121-1123	0.9	1
125	Thermal Evaluation, Rheological Properties and Characterization of Pristine, Modified and Polyacrylamide-Mediated Grafted <i>Acacia modesta</i> Gum. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1397-1403	0.9	1
124	iTRAQ-BASED Proteomic Analysis of the Mechanism of Fructose on Improving Fengycin Biosynthesis in. <i>Molecules</i> , 2021 , 26,	4.8	1
123	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> , 2021 ,	4.8	1

122	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> , 2022 , 1	3.2	1
121	Bio-Based Biopolymers and Their Potential Applications for Bio- and Non-Bio Sectors 2018 , 23-44		1
120	In-vitro Evaluation of Anti-Bacterial, Anti-biofilm and Cytotoxic Activity of Naturally Inspired <i>Juglans regia</i> , <i>Tamarix aphylla</i> L., and <i>Acacia modesta</i> with Medicinal Potentialities. <i>Journal of Pure and Applied Microbiology</i> , 2020 , 14, 1133-1142	0.9	1
119	Recent advancement in BiOI-based nanocomposites for high performance photocatalysts. <i>Chemosphere</i> , 2021 , 132668	8.4	1
118	Chitosan-Based Smart Polymeric Hydrogels and their Prospective Applications in Biomedicine. <i>Starch/Staerke</i> , 2100150	2.3	1
117	Marine-Derived Biologically Active Compounds for the Potential Treatment of Rheumatoid Arthritis. <i>Marine Drugs</i> , 2020 , 19,	6	1
116	Biodegradation of materials in presence of nanoparticles 2022 , 9-30		1
115	Biodegradation of environmental pollutants using horseradish peroxidase 2022 , 603-633		1
114	Interaction between <i>Saccharomyces cerevisiae</i> and <i>Lactobacillus fermentum</i> during co-culture fermentation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 29, 101756	4.2	1
113	<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> , 2021 ,	2.8	1
112	Effective fabrication of zinc-oxide (ZnO) nanoparticles using <i>Achyranthes aspera</i> leaf extract and their potent biological activities against the bacterial poultry pathogens. <i>Materials Research Express</i> , 2021 , 8, 035004	1.7	1
111	Supercritical CO ₂ drying of pure silica aerogels: effect of drying time on textural properties of nanoporous silica aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 98, 478-486	2.3	1
110	Structural and biological investigation of biogenically synthesized titanium dioxide nanoparticles: Calcination and characterization. <i>Microscopy Research and Technique</i> , 2021 , 84, 2372-2380	2.8	1
109	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
108	Urease-Based Biocatalytic Platforms: A Modern View of a Classic Enzyme with Applied Perspectives. <i>Catalysis Letters</i> , 2021 , 1	2.8	1
107	Synthesis of clay-armored coatable sulfonated polyimide nanocomposites as robust polyelectrolyte membranes. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51310	2.9	1
106	Development and characterization of chitosan and acrylic acid-based novel biodegradable polymeric films for soil conditioning. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 950-958	7.9	1
105	Recent trends on the food wastes valorization to value-added commodities 2021 , 171-196		1

104	Enzyme-Oriented Strategies to Mitigate Polluting Agents from Environment. <i>Microorganisms for Sustainability</i> , 2021 , 267-290	1.1	1
103	Chitosan-based green sorbents for toxic cations removal 2021 , 323-352		1
102	Valorization of Green and Sustainable Advanced Materials from A Biomed Perspective [Potential Applications 2018 , 19-47		1
101	Fabrication and Catalytic Characterization of Laccase-Loaded Calcium-Alginate Beads for Enhanced Degradation of Dye-Contaminated Aqueous Solutions. <i>Catalysis Letters</i> , 2021 , 1	2.8	1
100	Coupled 3D numerical model for a landslide-induced impulse water wave: A case study of the Fuquan landslide. <i>Engineering Geology</i> , 2021 , 290, 106209	6	1
99	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
98	Robust bioinspired surfaces and their exploitation for petroleum hydrocarbon remediation. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	1
97	Extracellular lipopeptide bacillomycin L regulates serial expression of genes for modulating multicellular behavior in <i>Bacillus velezensis</i> Bs916. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 6853-6870	5.7	1
96	Extremophilic Ligninolytic Enzymes: Versatile Biocatalytic Tools with Impressive Biotechnological Potential. <i>Catalysis Letters</i> ,1	2.8	1
95	Insights into the catalytic mechanism of ligninolytic peroxidase and laccase in lignin degradation. <i>Bioremediation Journal</i> ,1-11	2.3	1
94	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
93	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
92	Polysaccharides-Based Nano-Hybrid Biomaterial Platforms for Tissue Engineering, Drug Delivery, and Food Packaging Applications. <i>Starch/Staerke</i> ,2200023	2.3	1
91	Bio-inspired sustainable synthesis of silver chloride nanoparticles and their prominent applications. <i>Journal of the Indian Chemical Society</i> , 2022 , 99, 100335		1
90	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> , 2022 , 824, 153979	10.2	1
89	Nanoparticles as stimulants for efficient generation of biofuels and renewables. <i>Fuel</i> , 2022 , 319, 1237247.1		1
88	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> , 2022 , 212, 113160	7.9	1
87	<i>Eruca sativa</i> seed napin structural insights and thorough functional characterization.. <i>Scientific Reports</i> , 2021 , 11, 24066	4.9	1

86	Enhancing the methanol tolerance of lipase B by saturation mutagenesis for biodiesel preparation.. <i>3 Biotech</i> , 2022 , 12, 22	2.8	1
85	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
84	Bioprospecting and biotechnological insights into sweet-tasting proteins by microbial hosts-a review.. <i>Bioengineered</i> , 2022 , 13, 9815-9828	5.7	1
83	Bioprospecting as a Robust Host for Industrial Biotechnology.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 851768	5.8	1
82	Mechanisms of gene regulation by histone degradation in adaptation of yeast: an overview of recent advances.. <i>Archives of Microbiology</i> , 2022 , 204, 287	3	1
81	Algal Polysaccharides-Based Nanoparticles for Targeted Drug Delivery Applications. <i>Starch/Staerke</i> , 2022 , 74, 1014	20.4	1
80	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> , 2022 , 102649	7	1
79	Silk-based nano-hydrogels for futuristic biomedical applications. <i>Journal of Drug Delivery Science and Technology</i> , 2022 , 103385	4.5	1
78	Emerging biotechnological strategies for food waste management: A green leap towards achieving high-value products and environmental abatement. <i>Energy Nexus</i> , 2022 , 6, 100077		1
77	Aptamer-conjugated carbon-based nanomaterials for cancer and bacteria theranostics: A review.. <i>Chemico-Biological Interactions</i> , 2022 , 361, 109964	5	1
76	Robust strategies to eliminate endocrine disruptive estrogens in water resources.. <i>Environmental Pollution</i> , 2022 , 119373	9.3	1
75	Biopolymers and Environment. <i>Springer Series on Polymer and Composite Materials</i> , 2022 , 19-33	0.9	1
74	Nanobioremediation: Status quo and view ahead 2022 , 573-577		0
73	Nanoadsorbents as a green approach for removal of environmental pollutants 2022 , 435-454		0
72	Lignin removal from pulp and paper industry waste streams and its application 2022 , 265-283		0
71	Vinasse bio-valorization for enhancement of Pleurotus biomass productivity: chemical characterization and carbohydrate analysis. <i>Biomass Conversion and Biorefinery</i> , 2022 , 1	2.3	0
70	Paper and pulp mill wastewater: characterization, microbial-mediated degradation, and challenges 2022 , 371-387		0
69	Laccases: catalytic and functional attributes for robust biocatalysis 2022 , 567-594		0

68	Metal-organic frameworks for removal of heavy metals 2022 , 455-476		○
67	Role of laccase in the pulp and paper industry 2022 , 35-60		○
66	Electrospun cellulose composite nanofibers and their biotechnological applications 2022 , 329-348		○
65	Nanobiosorbents: Basic principles, synthesis, and application for contaminants removal 2022 , 45-59		○
64	High sensitivity hydrogen analysis in zircaloy-4 using helium-assisted excitation laser-induced breakdown spectroscopy. <i>Scientific Reports</i> , 2021 , 11, 21999	4.9	○
63	Two new torrubiellin derivatives from the mangrove endophytic fungus <i>Parengyodontium album</i> . <i>Phytochemistry Letters</i> , 2021 , 46, 149-152	1.9	○
62	Biological macromolecules for enzyme immobilization 2022 , 529-546		○
61	Emerging trends in environmental and industrial applications of marine carbonic anhydrase: a review. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 1	3.7	○
60	Enhancing the resilience of transgenic cotton for insect resistance. <i>Molecular Biology Reports</i> , 2021 , 1	2.8	○
59	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> , 2021 , 67, 102969	4.5	○
58	Immobilized Enzymes-Based Biosensing Cues for Strengthening Biocatalysis and Biorecognition. <i>Catalysis Letters</i> , 2021 , 1	2.8	○
57	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	○
56	Biodegradation and biodeterioration at the nanoscale: an introduction 2022 , 1-7		○
55	Toxicity Risks of Nanomaterials Used in the Building Construction Materials 2021 , 1, 26-43		○
54	Novel nanocomposite of biochar-zerovalent copper for lead adsorption. <i>Microscopy Research and Technique</i> , 2021 , 84, 2598-2606	2.8	○
53	Impact of Transcriptional Regulation by Crp, FruR, FlhD, and TyrR on L-tryptophan Biosynthesis in <i>Escherichia coli</i> . <i>Applied Biochemistry and Microbiology</i> , 2021 , 57, 319-326	1.1	○
52	Revisiting the Role of Biologically Active Natural and Synthetic Compounds as an Intervention to Treat Injured Nerves. <i>Molecular Neurobiology</i> , 2021 , 58, 4980-4998	6.2	○
51	Synthesis and physicochemical investigation of imide-functionalized silica nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50646	2.9	○

50	Expression profiling of miRNA-196a biomarker in naïve hepatitis C virus-infected and Sofosbuvir plus Daclatasvir-treated patients. <i>Archives of Microbiology</i> , 2021 , 203, 2365-2371	3	○
49	Evaluation of cell wall-associated direct extracellular electron transfer in thermophilic sp. <i>3 Biotech</i> , 2021 , 11, 383	2.8	○
48	Fabrication and characterization of functionally graded vermiculite nanocomposite material: the role of curing on glass transition and thermal stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 21848-21857	2.1	○
47	Applications of nanotechnology in biological systems and medicine 2022 , 215-235		○
46	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater.. <i>Bioengineered</i> , 2022 , 13, 8115-8134	5.7	○
45	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> , 2022 , 1	5.1	○
44	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	○
43	Upgrading recalcitrant lignocellulosic biomass hydrolysis by immobilized cellulolytic enzyme-based nanobiocatalytic systems: a review. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	○
42	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> , 2022 , 1866, 130113	4	○
41	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> , 2022 , 71, 103288	4.5	○
40	Iron oxide nanoparticles immobilized <i>Aspergillus flavus</i> manganese peroxidase with improved biocatalytic, kinetic, thermodynamic, and dye degradation potentialities. <i>Process Biochemistry</i> , 2022 , 117, 117-133	4.8	○
39	Physicochemical-biotechnological approaches for removal of contaminants from wastewater 2022 , 241-261		○
38	Multifunctional nanodiamonds as emerging platforms for cancer treatment, and targeted delivery of genetic factors and protein medications—review. <i>Journal of Materials Science</i> , 2022 , 57, 8064-8099	4.3	○
37	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> , 2022 , 8, 206	4.7	○
36	Broadening the scope of on-site detection and bioanalytical perspective of toxic elements using fluorescent sensing constructs 2022 , 100019		○
35	In Silico Analysis and Functional Characterization of Antimicrobial and Insecticidal Vicilin from Moth Bean (<i>Vigna aconitifolia</i> (Jacq.) Marechal) Seeds. <i>Molecules</i> , 2022 , 27, 3251	4.8	○
34	Transcriptome Analysis of <i>Bacillus amyloliquefaciens</i> Reveals Fructose Addition Effects on Fengycin Synthesis. <i>Genes</i> , 2022 , 13, 984	4.2	○
33	Current Nano-Strategies to Improve Therapeutic Efficacy Across Special Structures. <i>OpenNano</i> , 2022 , 100049	8.4	○

- 32 An overview of phytochrome: An important light switch and photo-sensory antenna for regulation of vital functioning of plants. *Biologia (Poland)*, **2015**, 70, 1273-1283 1.5
- 31 Microbial exo-polygalacturonase— versatile enzyme with multiindustrial applications **2022**, 595-621
- 30 Treatment of pulp and paper industry waste effluents and contaminants **2022**, 349-370
- 29 Nanobiocatalysts for wastewater remediation and redefining of pollutants **2022**, 313-337
- 28 Introduction to nano-biosorbents **2022**, 29-43
- 27 Toxicological impact and adsorptive removal of triclosan from water bodies using chitosan and carbon-based nano-architectures **2022**, 437-452
- 26 Wind Energy, Its Application, Challenges, and Potential Environmental Impact **2022**, 1-38
- 25 Green photosensitisers for the degradation of selected pesticides of high risk in most susceptible food: A safer approach. *PLoS ONE*, **2021**, 16, e0258864 3.7
- 24 PHYTOCHEMICAL SCREENING OF DIFFERENT ROOT EXTRACTS OF *Ageratum conyzoides* AND THEIR POTENTIAL BIOACTIVE PROPERTIES. *Journal of Experimental Biology and Agricultural Sciences*, **2021**, 9, 639-646 0.6
- 23 Biodegradation of micropollutants **2022**, 477-507
- 22 Metal-organic framework for removal of environmental contaminants **2022**, 561-577
- 21 Nanobiodegradation of pharmaceutical pollutants **2022**, 635-653
- 20 Pentatricopeptide Repeat-directed RNA Editing and Their Biomedical Applications. *International Journal of Pharmacology*, **2017**, 13, 762-772 0.7
- 19 Determination of Lead and Chromium in Aloe Vera Pulp and Aloe Vera-Based Cosmetics by Laser-Induced Breakdown Spectroscopy (LIBS). *Analytical Letters*, **2020**, 53, 2571-2584 2.2
- 18 Clean-green technologies for removal of emerging contaminants from industrial effluents **2021**, 125-145
- 17 Synergistic Effect of Urease and Nitrification Inhibitors in the Reduction of Ammonia Volatilization. *Water, Air, and Soil Pollution*, **2021**, 232, 1 2.6
- 16 Challenges of Stability in Perovskite Solar Cells **2021**, 371-391
- 15 Application of TiO₂ photocatalysts hybridized with carbonaceous for degradation of pharmaceuticals **2022**, 323-348

- 14 Drug delivery systems based on blood cells **2022**, 167-193
- 13 Fungal Potential for the Degradation of Synthetic Dyes: An Overview of Renewable Alternatives for the Production of Lignin-Modifying Enzymes. *Microorganisms for Sustainability*, **2021**, 153-181 1.1
- 12 Polymer-coated magnetic nanoparticles **2021**, 275-293
- 11 Microbiota, probiotics and respiratory infections: the three musketeers can tip off potential management of COVID-19. *American Journal of Translational Research (discontinued)*, **2021**, 13, 10977-10993
- 10 A Case Report of Nasopharyngeal Myiasis in a 49-Year-old Shepherd Man Referred to the Emergency Department of Tabriz. *International Journal of Medical Parasitology and Epidemiology Sciences*, **2021**, 2, 49-51 0
- 9 Hydroxyapatite nanoparticles/polyimide-coated platinum electrodes for improved heat-insulating and heavy metal ion diffusion properties. *Journal of Nanostructure in Chemistry*, 1 7.6
- 8 Effective adsorption of diclofenac and naproxen from water using fixed-bed column loaded with composite of heavy sugarcane ash and polyethylene terephthalate.. *Environmental Research*, **2022**, 211, 112971 7.9
- 7 Nanostructured materials for water/wastewater remediation **2022**, 413-432
- 6 Anti HCV activity and expression inhibition of HCC markers by protein extract from *Iberis gibraltarica*.. *Brazilian Journal of Biology*, **2022**, 84, e252676 1.5
- 5 *Pleurotus*-Derived Laccases, Immobilization, and Bioremediation Applications. *Microorganisms for Sustainability*, **2022**, 49-69 1.1
- 4 Oxidoreductases for Removal of Environmental Pollutants. *Microorganisms for Sustainability*, **2022**, 1-17 1.1
- 3 Microbial Lipases for Polyester Degradation. *Microorganisms for Sustainability*, **2022**, 71-92 1.1
- 2 Wind Energy, its Application, Challenges, and Potential Environmental Impact **2022**, 899-935
- 1 The potential use of essential oils as natural biocides against plant pathogens **2022**, 419-435