

Muhammad Bilal

List of Publications by Year in descending order

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Version: 2024-02-01

758
papers

28,104
citations

6233

80
h-index

16605

123
g-index

774
all docs

774
docs citations

774
times ranked

19932
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmentally-related contaminants of high concern: Potential sources and analytical modalities for detection, quantification, and treatment. <i>Environment International</i> , 2019, 122, 52-66.	4.8	503
2	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.	3.3	450
3	<p>Green nanotechnology: a review on green synthesis of silver nanoparticles â€” an ecofriendly approach</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 5087-5107.	3.3	351
4	Emerging contaminants of high concern and their enzyme-assisted biodegradation â€” A review. <i>Environment International</i> , 2019, 124, 336-353.	4.8	338
5	Immobilized ligninolytic enzymes: An innovative and environmental responsive technology to tackle dye-based industrial pollutants â€” A review. <i>Science of the Total Environment</i> , 2017, 576, 646-659.	3.9	321
6	Magnetic nanoparticles as versatile carriers for enzymes immobilization: A review. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 2530-2544.	3.6	311
7	Biosorption: An Interplay between Marine Algae and Potentially Toxic Elementsâ€”A Review. <i>Marine Drugs</i> , 2018, 16, 65.	2.2	308
8	Fluorescent sensor based models for the detection of environmentally-related toxic heavy metals. <i>Science of the Total Environment</i> , 2018, 615, 476-485.	3.9	303
9	Bio-based active food packaging materials: Sustainable alternative to conventional petrochemical-based packaging materials. <i>Food Research International</i> , 2020, 137, 109625.	2.9	282
10	Stimuli-Responsive Polymeric Nanocarriers for Drug Delivery, Imaging, and Theragnosis. <i>Polymers</i> , 2020, 12, 1397.	2.0	281
11	Recent progress in multienzymes co-immobilization and multienzyme system applications. <i>Chemical Engineering Journal</i> , 2019, 373, 1254-1278.	6.6	257
12	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.	2.5	251
13	Naturally-derived biopolymers: Potential platforms for enzyme immobilization. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 462-482.	3.6	241
14	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.	3.6	226
15	Hazardous contaminants in the environment and their laccase-assisted degradation â€” A review. <i>Journal of Environmental Management</i> , 2019, 234, 253-264.	3.8	216
16	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.	3.9	200
17	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.	5.1	199
18	Mitigation of environmental pollution by genetically engineered bacteria â€” Current challenges and future perspectives. <i>Science of the Total Environment</i> , 2019, 667, 444-454.	3.9	197

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19	Endogenous and Exogenous Stimuli-Responsive Drug Delivery Systems for Programmed Site-Specific Release. <i>Molecules</i> , 2019, 24, 1117.	1.7	188
20	Plastic waste and its management strategies for environmental sustainability. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100142.	2.9	186
21	Biotransformation of lignocellulosic materials into value-added products—A review. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 447-458.	3.6	183
22	Antibiotics traces in the aquatic environment: persistence and adverse environmental impact. <i>Current Opinion in Environmental Science and Health</i> , 2020, 13, 68-74.	2.1	179
23	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.	3.9	175
24	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.	9.5	167
25	Environmental impact and pollution-related challenges of renewable wind energy paradigm — A review. <i>Science of the Total Environment</i> , 2019, 683, 436-444.	3.9	156
26	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, 436.	2.1	152
27	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.	3.6	151
28	“Smart” chemistry and its application in peroxidase immobilization using different support materials. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 278-290.	3.6	150
29	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.	3.9	150
30	“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.	2.6	149
31	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.	3.9	146
32	Chitosan—zinc sulfide nanoparticles, characterization and their photocatalytic degradation efficiency for azo dyes. <i>International Journal of Biological Macromolecules</i> , 2020, 153, 502-512.	3.6	143
33	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.	3.9	140
34	Environmental threatening concern and efficient removal of pharmaceutically active compounds using metal-organic frameworks as adsorbents. <i>Environmental Research</i> , 2020, 185, 109436.	3.7	137
35	Viral Dynamics and Real-Time RT-PCR Ct Values Correlation with Disease Severity in COVID-19. <i>Diagnostics</i> , 2021, 11, 1091.	1.3	135
36	Chitosan beads immobilized manganese peroxidase catalytic potential for detoxification and decolorization of textile effluent. <i>International Journal of Biological Macromolecules</i> , 2016, 89, 181-189.	3.6	134

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37	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, 1161-1169.	3.6	131
38	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.	3.6	130
39	Advanced catalytic ozonation for degradation of pharmaceutical pollutants—A review. <i>Chemosphere</i> , 2022, 289, 133208.	4.2	130
40	Surfactants-based remediation as an effective approach for removal of environmental pollutants—A review. <i>Journal of Molecular Liquids</i> , 2020, 318, 113960.	2.3	127
41	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.	1.7	124
42	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. <i>Coordination Chemistry Reviews</i> , 2022, 454, 214327.	9.5	124
43	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.	2.9	123
44	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.	3.9	121
45	Disassembly and deconstruction analytics system (D-DAS) for construction in a circular economy. <i>Journal of Cleaner Production</i> , 2019, 223, 386-396.	4.6	121
46	Modifying bio-catalytic properties of enzymes for efficient biocatalysis: a review from immobilization strategies viewpoint. <i>Biocatalysis and Biotransformation</i> , 2019, 37, 159-182.	1.1	121
47	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.	3.9	120
48	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.	3.9	115
49	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.	3.6	115
50	Redox-responsive nano-carriers as tumor-targeted drug delivery systems. <i>European Journal of Medicinal Chemistry</i> , 2018, 157, 705-715.	2.6	114
51	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.	1.1	114
52	Dye decolorization and detoxification potential of Ca-alginate beads immobilized manganese peroxidase. <i>BMC Biotechnology</i> , 2015, 15, 111.	1.7	113
53	Microplastic contaminants in the aqueous environment, fate, toxicity consequences, and remediation strategies. <i>Environmental Research</i> , 2021, 200, 111762.	3.7	110
54	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.	3.6	108

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55	Nanomaterials for Diagnosis and Treatment of Brain Cancer: Recent Updates. <i>Chemosensors</i> , 2020, 8, 117.	1.8	107
56	Chitosan-based hybrid materials as adsorbents for textile dyes—A review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020, 2, 100021.	2.9	106
57	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.	9.5	105
58	Remediation of heavy metals polluted environment using Fe-based nanoparticles: Mechanisms, influencing factors, and environmental implications. <i>Environmental Pollution</i> , 2020, 264, 114728.	3.7	105
59	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.	3.6	105
60	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.	3.8	104
61	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.	1.7	104
62	Nanotechnology in ovarian cancer: Diagnosis and treatment. <i>Life Sciences</i> , 2021, 266, 118914.	2.0	104
63	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.	3.9	103
64	Mutagenicity and cytotoxicity assessment of biodegraded textile effluent by Ca-alginate encapsulated manganese peroxidase. <i>Biochemical Engineering Journal</i> , 2016, 109, 153-161.	1.8	101
65	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.	2.7	98
66	Multifunctional metal—organic frameworks-based biocatalytic platforms: recent developments and future prospects. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2359-2371.	2.6	97
67	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.	2.9	97
68	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.	0.7	96
69	Development of silver nanoparticles loaded chitosan-alginate constructs with biomedical potentialities. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 393-400.	3.6	96
70	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.	3.9	96
71	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.	1.5	95
72	Covalent organic frameworks as robust materials for mitigation of environmental pollutants. <i>Chemosphere</i> , 2021, 270, 129523.	4.2	92

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73	Fluorescent-based nanosensors for selective detection of a wide range of biological macromolecules: A comprehensive review. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 115-147.	3.6	91
74	TiO ₂ /SiO ₂ decorated carbon nanostructured materials as a multifunctional platform for emerging pollutants removal. <i>Science of the Total Environment</i> , 2019, 688, 299-311.	3.9	90
75	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.	1.5	90
76	Potential environmental impacts of wind energy development: A global perspective. <i>Current Opinion in Environmental Science and Health</i> , 2020, 13, 85-90.	2.1	90
77	MXene-based electrochemical and biosensing platforms to detect toxic elements and pesticides pollutants from environmental matrices. <i>Chemosphere</i> , 2022, 291, 132820.	4.2	89
78	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.	3.6	88
79	Occurrence, potential ecological risks, and degradation of endocrine disrupter, nonylphenol, from the aqueous environment. <i>Chemosphere</i> , 2021, 275, 130013.	4.2	87
80	In-situ, Ex-situ, and nano-remediation strategies to treat polluted soil, water, and air – A review. <i>Chemosphere</i> , 2022, 289, 133252.	4.2	87
81	Characteristic features and dye degrading capability of agar-agar gel immobilized manganese peroxidase. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 728-740.	3.6	86
82	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, 923.	1.2	86
83	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.	1.5	84
84	Protease – A Versatile and Ecofriendly Biocatalyst with Multi-Industrial Applications: An Updated Review. <i>Catalysis Letters</i> , 2021, 151, 307-323.	1.4	84
85	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.	2.7	83
86	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO ₂ . <i>International Journal of Biological Macromolecules</i> , 2020, 155, 110-118.	3.6	82
87	Decontamination of emerging pharmaceutical pollutants using carbon-dots as robust materials. <i>Journal of Hazardous Materials</i> , 2022, 423, 127145.	6.5	82
88	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.	3.8	81
89	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.	3.6	81
90	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.	3.6	80

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91	Recent advances in the production strategies of microbial pectinases—A review. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 1017-1026.	3.6	80
92	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.	3.0	80
93	Application of machine learning in anaerobic digestion: Perspectives and challenges. <i>Bioresource Technology</i> , 2022, 345, 126433.	4.8	80
94	The Beast of Beauty: Environmental and Health Concerns of Toxic Components in Cosmetics. <i>Cosmetics</i> , 2020, 7, 13.	1.5	79
95	Nanomaterials for the treatment and diagnosis of Alzheimer's disease: An overview. <i>NanoImpact</i> , 2020, 20, 100251.	2.4	78
96	Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling. <i>Fuel</i> , 2021, 293, 120485.	3.4	78
97	Sandal reactive dyes decolorization and cytotoxicity reduction using manganese peroxidase immobilized onto polyvinyl alcohol-alginate beads. <i>Chemistry Central Journal</i> , 2015, 9, 47.	2.6	77
98	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.	3.9	77
99	Carbon nanotubes-based cues: A pathway to future sensing and detection of hazardous pollutants. <i>Journal of Molecular Liquids</i> , 2019, 292, 111425.	2.3	76
100	Environmental perspectives of interfacially active and magnetically recoverable composite materials — A review. <i>Science of the Total Environment</i> , 2019, 670, 523-538.	3.9	76
101	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.	3.6	76
102	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.	5.8	76
103	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.	3.9	76
104	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.	3.6	75
105	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.	3.9	75
106	Metal-Organic Framework-Based Engineered Materials—Fundamentals and Applications. <i>Molecules</i> , 2020, 25, 1598.	1.7	75
107	Macromolecular agents with antimicrobial potentialities: A drive to combat antimicrobial resistance. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 554-574.	3.6	74
108	Reaction Mechanism and Degradation Pathway of Rhodamine 6G by Photocatalytic Treatment. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	74

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109	Marine Seaweed Polysaccharides-Based Engineered Cues for the Modern Biomedical Sector. <i>Marine Drugs</i> , 2020, 18, 7.	2.2	74
110	Highly hazardous pesticides and related pollutants: Toxicological, regulatory, and analytical aspects. <i>Science of the Total Environment</i> , 2022, 807, 151879.	3.9	74
111	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.	8.2	73
112	Unprecedented environmental and energy impacts and challenges of COVID-19 pandemic. <i>Environmental Research</i> , 2021, 193, 110443.	3.7	73
113	Microalgae as a source of high-value bioactive compounds. <i>Frontiers in Bioscience - Scholar</i> , 2018, 10, 197-216.	0.8	72
114	Nanomaterials as Nanofertilizers and Nanopesticides: An Overview. <i>ChemistrySelect</i> , 2021, 6, 8645-8663.	0.7	72
115	Application of Green Gold Nanoparticles in Cancer Therapy and Diagnosis. <i>Nanomaterials</i> , 2022, 12, 1102.	1.9	72
116	Carbon nanotubes assisted analytical detection – Sensing/delivery cues for environmental and biomedical monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116066.	5.8	71
117	Environmental occurrence, toxicity concerns, and remediation of recalcitrant nitroaromatic compounds. <i>Journal of Environmental Management</i> , 2021, 291, 112685.	3.8	71
118	Engineering Functionalized Chitosan-Based Sorbent Material: Characterization and Sorption of Toxic Elements. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5138.	1.3	70
119	Chitosan-Based Bio-Composite Modified with Thiocarbamate Moiety for Decontamination of Cations from the Aqueous Media. <i>Molecules</i> , 2020, 25, 226.	1.7	69
120	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.	2.7	69
121	Polysaccharides-based bio-nanostructures and their potential food applications. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 540-557.	3.6	69
122	Silver Nanoparticles: Biosynthesis and Antimicrobial Potentialities. <i>International Journal of Pharmacology</i> , 2017, 13, 832-845.	0.1	69
123	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.	2.7	68
124	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.	3.6	68
125	Self-assembly of activated lipase hybrid nanoflowers with superior activity and enhanced stability. <i>Biochemical Engineering Journal</i> , 2020, 158, 107582.	1.8	67
126	Environmental impacts of hazardous waste, and management strategies to reconcile circular economy and eco-sustainability. <i>Science of the Total Environment</i> , 2022, 807, 150856.	3.9	67

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127	Occurrence, toxic effects, and mitigation of pesticides as emerging environmental pollutants using robust nanomaterials – A review. <i>Chemosphere</i> , 2022, 293, 133538.	4.2	66
128	Tailoring Multipurpose Biocatalysts via Protein Engineering Approaches: A Review. <i>Catalysis Letters</i> , 2019, 149, 2204-2217.	1.4	65
129	Structural Properties and Antimicrobial Activities of Polyalthia longifolia Leaf Extract-Mediated CuO Nanoparticles. <i>BioNanoScience</i> , 2021, 11, 579-589.	1.5	65
130	Impact of COVID-related lockdowns on environmental and climate change scenarios. <i>Environmental Research</i> , 2021, 195, 110839.	3.7	65
131	New Insights on Unique Features and Role of Nanostructured Materials in Cosmetics. <i>Cosmetics</i> , 2020, 7, 24.	1.5	63
132	Influence of bio-fertilizer containing beneficial fungi and rhizospheric bacteria on health promoting compounds and antioxidant activity of <i>Spinacia oleracea</i> L., 2017, 58, 35.		62
133	Mitigation of environmentally-related hazardous pollutants from water matrices using nanostructured materials – A review. <i>Chemosphere</i> , 2020, 253, 126770.	4.2	62
134	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.	3.9	62
135	Chitosan-based hybrid materials for adsorptive removal of dyes and underlying interaction mechanisms. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 399-422.	3.6	61
136	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.	3.6	61
137	Free and immobilized biocatalysts for removing micropollutants from water and wastewater: Recent progress and challenges. <i>Bioresource Technology</i> , 2022, 344, 126201.	4.8	61
138	Microbial-derived biosensors for monitoring environmental contaminants: Recent advances and future outlook. <i>Chemical Engineering Research and Design</i> , 2019, 124, 8-17.	2.7	60
139	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.	3.6	59
140	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.	1.5	59
141	Smart chemistry of enzyme immobilization using various support matrices – A review. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 396-408.	3.6	59
142	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, 598.	1.2	58
143	Efficient bio-butanol production from lignocellulosic waste by elucidating the mechanisms of <i>Clostridium acetobutylicum</i> response to phenolic inhibitors. <i>Science of the Total Environment</i> , 2020, 710, 136399.	3.9	58
144	Wind Generation Forecasting Methods and Proliferation of Artificial Neural Network: A Review of Five Years Research Trend. <i>Sustainability</i> , 2020, 12, 3778.	1.6	58

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145	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, 565.	1.2	57
146	Biochar-based composites for remediation of polluted wastewater and soil environments: Challenges and prospects. <i>Chemosphere</i> , 2022, 297, 134163.	4.2	57
147	4-Hydroxybenzoic acidâ€”a versatile platform intermediate for value-added compounds. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3561-3571.	1.7	55
148	Engineered nanocellulose-based hydrogels for smart drug delivery applications. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 275-290.	3.6	55
149	Environmentally responsive and anti-bugs textile finishes â€” Recent trends, challenges, and future perspectives. <i>Science of the Total Environment</i> , 2019, 690, 667-682.	3.9	54
150	Isolation and characterization of lignin-degrading bacterium <i>Bacillus aryabhattai</i> from pulp and paper mill wastewater and evaluation of its lignin-degrading potential. <i>3 Biotech</i> , 2019, 9, 92.	1.1	54
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