

# Muhammad Bilal

## List of Publications by Year in descending order

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758  
papers

28,104  
citations

6250

80  
h-index

16636

123  
g-index

774  
all docs

774  
docs citations

774  
times ranked

19932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitosan-Based Smart Polymeric Hydrogels and Their Prospective Applications in Biomedicine. <i>Starch/Staerke</i> , 2024, 76, 2100150.	1.1	10
2	Carrageenan-Based Hybrids with Biopolymers and Nano-Structured Materials for Biomimetic Applications. <i>Starch/Staerke</i> , 2024, 76, .	1.1	13
3	Bioprospecting lignin biomass into environmentally friendly polymers—Applied perspective to reconcile sustainable circular bioeconomy. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4457-4483.	2.9	9
4	Upgrading recalcitrant lignocellulosic biomass hydrolysis by immobilized cellulolytic enzyme-based nanobiocatalytic systems: a review. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4485-4509.	2.9	11
5	Chitosan and Carrageenan-Based Biocompatible Hydrogel Platforms for Cosmeceutical, Drug Delivery, and Biomedical Applications. <i>Starch/Staerke</i> , 2024, 76, .	1.1	10
6	Various strategies applied for the removal of emerging micropollutant sulfamethazine: a systematic review. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71599-71613.	2.7	28
7	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> , 2023, 13, 10539-10550.	2.9	7
8	Cottonseed oil: A review of extraction techniques, physicochemical, functional, and nutritional properties. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 1219-1237.	5.4	15
9	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> , 2023, 13, 12249-12264.	2.9	2
10	Vinasse bio-valorization for enhancement of <i>Pleurotus</i> biomass productivity: chemical characterization and carbohydrate analysis. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 10031-10040.	2.9	4
11	Stem Cells and Tissue Engineering-Based Therapeutic Interventions: Promising Strategies to Improve Peripheral Nerve Regeneration. <i>Cellular and Molecular Neurobiology</i> , 2023, 43, 433-454.	1.7	7
12	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> , 2023, 20, 1007-1018.	1.8	13
13	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> , 2023, 48, 215-256.	6.8	10
14	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> , 2023, 13, 13181-13196.	2.9	3
15	Procurement and Characterization of Biodegradable Films made from Blends of Eucalyptus, Pine and Cocoa Bean Shell Nanocelluloses. <i>Waste and Biomass Valorization</i> , 2023, 14, 3169-3181.	1.8	5
16	Hydrogen-based sono-hybrid catalytic degradation and mitigation of industrially-originated dye-based pollutants. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6597-6612.	3.8	31
17	The Application of Chemometric Methods in the Production of Enzymes Through Solid State Fermentation Uses the Artificial Neural Network—a Review. <i>Bioenergy Research</i> , 2023, 16, 279-288.	2.2	3
18	Broadening the Scope of Biocatalysis Engineering by Tailoring Enzyme Microenvironment: A Review. <i>Catalysis Letters</i> , 2023, 153, 1227-1239.	1.4	4

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19	Application of Chemometric Methods for the Optimization Secretion of Xylanase by <i>Aspergillus oryzae</i> in Solid State Fermentation and Its Application in the Saccharification of Agro-industrial Waste. Waste and Biomass Valorization, 2023, 14, 3183-3193.	1.8	6
20	Designing robust nano-biocatalysts using nanomaterials as multifunctional carriers - expanding the application scope of bio-enzymes. Topics in Catalysis, 2023, 66, 625-648.	1.3	7
21	Kinetic and thermodynamic characterization of lipase from <i>Aspergillus melleus</i> and its biocatalytic performance for degradation of poly( $\epsilon$ -caprolactone). Journal of Chemical Technology and Biotechnology, 2022, 97, 446-454.	1.6	7
22	<i>Penicillium fellutanum</i> lipase as a green and ecofriendly biocatalyst for depolymerization of poly( $\epsilon$ -caprolactone): Biochemical, kinetic, and thermodynamic investigations. Biotechnology and Applied Biochemistry, 2022, 69, 410-419.	1.4	7
23	Engineering novel gold nanoparticles using <i>Sageretia thea</i> leaf extract and evaluation of their biological activities. Journal of Nanostructure in Chemistry, 2022, 12, 129-140.	5.3	33
24	Oxidoreductases as a versatile biocatalytic tool to tackle pollutants for clean environment – a review. Journal of Chemical Technology and Biotechnology, 2022, 97, 420-435.	1.6	16
25	Development of catalysts for sulfuric acid decomposition in the sulfur–iodine cycle: a review. Catalysis Reviews - Science and Engineering, 2022, 64, 875-910.	5.7	5
26	Lignin-modifying enzymes: a green and environmental responsive technology for organic compound degradation. Journal of Chemical Technology and Biotechnology, 2022, 97, 327-342.	1.6	23
27	Broadening the Catalytic Role of Enzymes in Cosmeceutical Sector: A Robust Tool from White Biotechnology. Catalysis Letters, 2022, 152, 707-719.	1.4	5
28	Urease-Based Biocatalytic Platforms – A Modern View of a Classic Enzyme with Applied Perspectives. Catalysis Letters, 2022, 152, 414-437.	1.4	2
29	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. Biotechnology and Applied Biochemistry, 2022, 69, 1284-1299.	1.4	12
30	Pluronic F127/Doxorubicin microemulsions: Preparation, characterization, and toxicity evaluations. Journal of Molecular Liquids, 2022, 345, 117028.	2.3	37
31	Sustainable Production of Thermostable Laccase from Agro-Residues Waste by <i>Bacillus aquimaris</i> AKRC02. Catalysis Letters, 2022, 152, 1784-1800.	1.4	14
32	Poly(vinyl Alcohol)-Alginate Immobilized <i>Trametes versicolor</i> IBL-04 Laccase as Eco-friendly Biocatalyst for Dyes Degradation. Catalysis Letters, 2022, 152, 1869-1879.	1.4	9
33	Extremophilic Ligninolytic Enzymes: Versatile Biocatalytic Tools with Impressive Biotechnological Potential. Catalysis Letters, 2022, 152, 2302-2326.	1.4	5
34	Industrial applications of immobilized nano-biocatalysts. Bioprocess and Biosystems Engineering, 2022, 45, 237-256.	1.7	37
35	Decontamination of emerging pharmaceutical pollutants using carbon-dots as robust materials. Journal of Hazardous Materials, 2022, 423, 127145.	6.5	82
36	Application of TiO <sub>2</sub> photocatalysts hybridized with carbonaceous for degradation of pharmaceuticals. , 2022, , 323-348.		0

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37	Covalent organic frameworks-based smart materials for mitigation of pharmaceutical pollutants from aqueous solution. <i>Chemosphere</i> , 2022, 286, 131710.	4.2	40
38	Drug delivery systems based on blood cells. , 2022, , 167-193.		0
39	Applications of nanotechnology in biological systems and medicine. , 2022, , 215-235.		12
40	Alginate-based nano-adsorbent materials “ Bioinspired solution to mitigate hazardous environmental pollutants. <i>Chemosphere</i> , 2022, 288, 132618.	4.2	45
41	Bioprospecting microbial hosts to valorize lignocellulose biomass “ Environmental perspectives and value-added bioproducts. <i>Chemosphere</i> , 2022, 288, 132574.	4.2	34
42	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review. <i>Journal of Advanced Research</i> , 2022, 38, 157-177.	4.4	22
43	Thermostable trypsin-like protease by <i>Penicillium roqueforti</i> secreted in cocoa shell fermentation: Production optimization, characterization, and application in milk clotting. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 2069-2080.	1.4	11
44	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
45	Hazardous wastes, adverse impacts, and management strategies: a way forward to environmental sustainability. <i>Environment, Development and Sustainability</i> , 2022, 24, 9731-9756.	2.7	8
46	Immobilization of a cold-adaptive recombinant <i>Penicillium cyclopium</i> lipase on modified palygorskite for biodiesel preparation. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5317-5328.	2.9	8
47	Recent advancement in Bi <sub>5</sub> O <sub>7</sub> I-based nanocomposites for high performance photocatalysts. <i>Chemosphere</i> , 2022, 288, 132668.	4.2	22
48	Esterases as emerging biocatalysts: Mechanistic insights, genomic and metagenomic, immobilization, and biotechnological applications. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 2176-2194.	1.4	9
49	Biodegradation of materials in presence of nanoparticles. , 2022, , 9-30.		1
50	Biodegradation of micropollutants. , 2022, , 477-507.		4
51	Metal-organic framework for removal of environmental contaminants. , 2022, , 561-577.		0
52	Biodegradation of environmental pollutants using horseradish peroxidase. , 2022, , 603-633.		1
53	Microbial degradation of environmental pollutants. , 2022, , 509-528.		3
54	Nanobiodegradation of pharmaceutical pollutants. , 2022, , 635-653.		5

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55	Biodegradation and biodeterioration at the nanoscale: an introduction. , 2022, , 1-7.		1
56	Environmental impacts of hazardous waste, and management strategies to reconcile circular economy and eco-sustainability. Science of the Total Environment, 2022, 807, 150856.	3.9	67
57	Bioengineered microbial platforms for biomass-derived biofuel production – A review. Chemosphere, 2022, 288, 132528.	4.2	33
58	Dendritic Cell–Targeted Therapies to Treat Neurological Disorders. Molecular Neurobiology, 2022, 59, 603-619.	1.9	3
59	MXene-based electrochemical and biosensing platforms to detect toxic elements and pesticides pollutants from environmental matrices. Chemosphere, 2022, 291, 132820.	4.2	89
60	Heavy metals contamination and associated health risks in food webs—a review focuses on food safety and environmental sustainability in Bangladesh. Environmental Science and Pollution Research, 2022, 29, 3230-3245.	2.7	49
61	Wind Energy, Its Application, Challenges, and Potential Environmental Impact. , 2022, , 1-38.		1
62	Biological macromolecules for enzyme immobilization. , 2022, , 529-546.		1
63	Biocatalytic remediation of pharmaceutically active micropollutants for environmental sustainability. Environmental Pollution, 2022, 293, 118582.	3.7	29
64	Separation and remediation of environmental pollutants using metal–organic framework-based tailored materials. Environmental Science and Pollution Research, 2022, 29, 4822-4842.	2.7	9
65	Highly hazardous pesticides and related pollutants: Toxicological, regulatory, and analytical aspects. Science of the Total Environment, 2022, 807, 151879.	3.9	74
66	Emerging trends in environmental and industrial applications of marine carbonic anhydrase: a review. Bioprocess and Biosystems Engineering, 2022, 45, 431-451.	1.7	6
67	Enhancing the resilience of transgenic cotton for insect resistance. Molecular Biology Reports, 2022, 49, 5315-5323.	1.0	4
68	Hydrogen-based catalyst-assisted advanced oxidation processes to mitigate emerging pharmaceutical contaminants. International Journal of Hydrogen Energy, 2022, 47, 19555-19569.	3.8	28
69	Microbial bioremediation strategies with wastewater treatment potentialities – A review. Science of the Total Environment, 2022, 818, 151754.	3.9	41
70	Application of machine learning in anaerobic digestion: Perspectives and challenges. Bioresource Technology, 2022, 345, 126433.	4.8	80
71	Designing Kappa-carrageenan/guar gum/polyvinyl alcohol-based pH-responsive silane-crosslinked hydrogels for controlled release of cephadrine. Journal of Drug Delivery Science and Technology, 2022, 67, 102969.	1.4	8
72	Immobilized Enzymes-Based Biosensing Cues for Strengthening Biocatalysis and Biorecognition. Catalysis Letters, 2022, 152, 2637-2649.	1.4	6

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73	Nanohybrids-assisted photocatalytic removal of pharmaceutical pollutants to abate their toxicological effects “ A review. <i>Chemosphere</i> , 2022, 291, 133056.	4.2	16
74	MXene-based hybrid composites as photocatalyst for the mitigation of pharmaceuticals. <i>Chemosphere</i> , 2022, 291, 133062.	4.2	15
75	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
76	Synthesis of ternary-based visible light nano-photocatalyst for decontamination of organic dyes-loaded wastewater. <i>Chemosphere</i> , 2022, 289, 133121.	4.2	32
77	Uncovering the Role of PhzC as DAHP Synthase in Shikimate Pathway of <i>Pseudomonas</i> Chlororaphis HT66. <i>Biology</i> , 2022, 11, 86.	1.3	1
78	Phytochemistry and Diverse Pharmacology of Genus <i>Mimosa</i> : A Review. <i>Biomolecules</i> , 2022, 12, 83.	1.8	15
79	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.	1.4	7
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	Advanced catalytic ozonation for degradation of pharmaceutical pollutants“A review. <i>Chemosphere</i> , 2022, 289, 133208.	4.2	130
82	Nano-engineered materials for sensing food pollutants: Technological advancements and safety issues. <i>Chemosphere</i> , 2022, 292, 133320.	4.2	17
83	In silico analytical toolset for predictive degradation and toxicity of hazardous pollutants in water sources. <i>Chemosphere</i> , 2022, 292, 133250.	4.2	11
84	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
85	Laccase-assisted biosensing constructs “ Robust modalities to detect and remove environmental contaminants. <i>Case Studies in Chemical and Environmental Engineering</i> , 2022, 5, 100180.	2.9	12
86	Integrated biorefinery approach to valorize citrus waste: A sustainable solution for resource recovery and environmental management. <i>Chemosphere</i> , 2022, 293, 133459.	4.2	34
87	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.	1.6	8
88	Nanobioremediation: Status quo and view ahead. , 2022, , 573-577.		1
89	Microbial exo-polygalacturonase“a versatile enzyme with multiindustrial applications. , 2022, , 595-621.		1
90	Nanoadsorbents as a green approach for removal of environmental pollutants. , 2022, , 435-454.		3

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91	Lignin removal from pulp and paper industry waste streams and its application. , 2022, , 265-283.		2
92	Treatment of pulp and paper industry waste effluents and contaminants. , 2022, , 349-370.		0
93	Functionalized nanoparticles and their environmental remediation potential: a review. Journal of Nanostructure in Chemistry, 2022, 12, 1007-1031.	5.3	29
94	Prospects of microbial polysaccharidesâ€based hybrid constructs for biomimicking applications. Journal of Basic Microbiology, 2022, 62, 1319-1336.	1.8	10
95	Paper and pulp mill wastewater: characterization, microbial-mediated degradation, and challenges. , 2022, , 371-387.		2
96	Laccases: catalytic and functional attributes for robust biocatalysis. , 2022, , 567-594.		3
97	Nanomaterials for bioremediation of air pollution. , 2022, , 243-261.		1
98	Investigating the Electrocoagulation Treatment of Landfill Leachate by Iron/Graphite Electrodes: Process Parameters and Efficacy Assessment. Water (Switzerland), 2022, 14, 205.	1.2	19
99	Investigation of the Biological Applications of Biosynthesized Nickel Oxide Nanoparticles Mediated by Buxus wallichiana Extract. Crystals, 2022, 12, 146.	1.0	7
100	Metal-organic frameworks for removal of heavy metals. , 2022, , 455-476.		1
101	Nanobiocatalysts for wastewater remediation and redefining of pollutants. , 2022, , 313-337.		0
102	Role of laccase in the pulp and paper industry. , 2022, , 35-60.		2
103	Carrier-Free Cross-linked Laccase Crystals for Biocatalytic Degradation of Textile Industrial Effluents. Applied Biochemistry and Biotechnology, 2022, 194, 1775-1789.	1.4	8
104	Tumor-derived extracellular vesicles: Potential tool for cancer diagnosis, prognosis, and therapy. Saudi Journal of Biological Sciences, 2022, 29, 2063-2071.	1.8	12
105	Electrospun cellulose composite nanofibers and their biotechnological applications. , 2022, , 329-348.		2
106	Editorial: Enzyme Biocatalysts: Design and Application. Frontiers in Chemistry, 2022, 10, 851857.	1.8	0
107	Purification and functional characterization of lectin from Chenopodium album. Journal of Proteins and Proteomics, 2022, 13, 55.	1.0	2
108	Persistence, environmental hazards, and mitigation of pharmaceutically active residual contaminants from water matrices. Science of the Total Environment, 2022, 821, 153329.	3.9	45

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109	Nanomaterial-immobilized lipases for sustainable recovery of biodiesel " A review. <i>Fuel</i> , 2022, 316, 123429.	3.4	15
110	Nanobiosorbents: Basic principles, synthesis, and application for contaminants removal. , 2022, , 45-59.		3
111	Introduction to nano-biosorbents. , 2022, , 29-43.		0
112	Nanomaterials for removal of heavy metals from wastewater. , 2022, , 135-161.		7
113	Toxicological impact and adsorptive removal of triclosan from water bodies using chitosan and carbon-based nano-architectures. , 2022, , 437-452.		1
114	Development of Artificial Synthetic Pathway of Endophenazines in <i>Pseudomonas chlororaphis</i> P3. <i>Biology</i> , 2022, 11, 363.	1.3	5
115	Insights into the catalytic mechanism of ligninolytic peroxidase and laccase in lignin degradation. <i>Bioremediation Journal</i> , 2022, 26, 281-291.	1.0	6
116	Synthesis of Activated Carbon from <i>Trachycarpus fortunei</i> Seeds for the Removal of Cationic and Anionic Dyes. <i>Materials</i> , 2022, 15, 1986.	1.3	13
117	Editorial: Recent Trends in Integrated Wastewater Treatment for Sustainable Development. <i>Frontiers in Microbiology</i> , 2022, 13, 846503.	1.5	3
118	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater. <i>Bioengineered</i> , 2022, 13, 8115-8134.	1.4	23
119	Electroactive polymeric nanocomposite BC- <i>g</i> -(Fe <sub>3</sub> O <sub>4</sub> /GO) materials for bone tissue engineering: <i>in vitro</i> evaluations. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022, 33, 1349-1368.	1.9	18
120	Prophylactic and therapeutic insights into trained immunity: A renewed concept of innate immune memory. <i>Human Vaccines and Immunotherapeutics</i> , 2022, 18, 1-19.	1.4	12
121	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, 29, 52857-52872.	2.7	5
122	Exploring Marine as a Rich Source of Bioactive Peptides: Challenges and Opportunities from Marine Pharmacology. <i>Marine Drugs</i> , 2022, 20, 208.	2.2	14
123	Application of Green Gold Nanoparticles in Cancer Therapy and Diagnosis. <i>Nanomaterials</i> , 2022, 12, 1102.	1.9	72
124	Polysaccharides-Based Nano-Hybrid Biomaterial Platforms for Tissue Engineering, Drug Delivery, and Food Packaging Applications. <i>Starch/Staerke</i> , 2022, 74, .	1.1	7
125	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.	1.1	6
126	Bio-inspired sustainable synthesis of silver chloride nanoparticles and their prominent applications. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100335.	1.3	33



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127	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.	1.4	5
128	Application of nanomaterials for enhanced production of biodiesel, biooil, biogas, bioethanol, and biohydrogen via lignocellulosic biomass transformation. <i>Fuel</i> , 2022, 315, 122840.	3.4	24
129	Non-magnetic and magnetically responsive support materials immobilized peroxidases for biocatalytic degradation of emerging dye pollutants—A review. <i>International Journal of Biological Macromolecules</i> , 2022, 207, 387-401.	3.6	18
130	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
131	Prospecting carbon-based nanomaterials for the treatment and degradation of endocrine-disrupting pollutants. <i>Chemosphere</i> , 2022, 297, 134172.	4.2	16
132	Biochar-based composites for remediation of polluted wastewater and soil environments: Challenges and prospects. <i>Chemosphere</i> , 2022, 297, 134163.	4.2	57
133	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.	3.3	52
134	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.	1.8	25
135	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.	3.9	10
136	Nanoparticles as stimulants for efficient generation of biofuels and renewables. <i>Fuel</i> , 2022, 319, 123724.	3.4	11
137	Effective adsorption of diclofenac and naproxen from water using fixed-bed column loaded with composite of heavy sugarcane ash and polyethylene terephthalate. <i>Environmental Research</i> , 2022, 211, 112971.	3.7	4
138	Carbon dots-based nanomaterials for fluorescent sensing of toxic elements in environmental samples: Strategies for enhanced performance. <i>Chemosphere</i> , 2022, 300, 134515.	4.2	28
139	Nano-remediation technologies for the sustainable mitigation of persistent organic pollutants. <i>Environmental Research</i> , 2022, 211, 113060.	3.7	47
140	Recent trends in mesoporous silica nanoparticles of rode-like morphology for cancer theranostics: A review. <i>Journal of Molecular Structure</i> , 2022, 1261, 132922.	1.8	27
141	Development of reduced graphene oxide-supported novel hybrid nanomaterials (Bi <sub>2</sub> WO <sub>6</sub> @rGO and Tj ETQq1 1 0.784314 rgBT /Over) for depollution. <i>Environmental Research</i> , 2022, 212, 113160.	3.7	19
142	Recent advances of biosurfactant for waste and pollution bioremediation: Substitutions of petroleum-based surfactants. <i>Environmental Research</i> , 2022, 212, 113126.	3.7	26
143	Bioprospecting microalgae and cyanobacteria for biopharmaceutical applications. <i>Journal of Basic Microbiology</i> , 2022, 62, 1110-1124.	1.8	15
144	Enhancing the methanol tolerance of <i>Candida antarctica</i> lipase B by saturation mutagenesis for biodiesel preparation. <i>3 Biotech</i> , 2022, 12, 22.	1.1	7

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145	Physicochemicalâ€“biotechnological approaches for removal of contaminants from wastewater. , 2022, , 241-261.		1
146	Nanostructured materials for water/wastewater remediation. , 2022, , 413-432.		0
147	Smart nanohybrid constructs: concept and designing for environmental remediation. Chemosphere, 2022, 301, 134616.	4.2	1
148	Citric acid-capped NiWO4/Bi2S3 and rGO-doped NiWO4/Bi2S3 nanoarchitectures for photocatalytic decontamination of emerging pollutants from the aqueous environment. Environmental Research, 2022, 212, 113276.	3.7	10
149	Bioprospecting and biotechnological insights into sweet-tasting proteins by microbial hostsâ€“a review. Bioengineered, 2022, 13, 9816-9829.	1.4	9
150	Bioprospecting <i>Kluyveromyces marxianus</i> as a Robust Host for Industrial Biotechnology. Frontiers in Bioengineering and Biotechnology, 2022, 10, 851768.	2.0	18
151	Chitosan nanocarriers for microRNA delivery and detection: A preliminary review with emphasis on cancer. Carbohydrate Polymers, 2022, 290, 119489.	5.1	23
152	Gums-based engineered bio-nanostructures for greening the 21st-century biotechnological settings. Critical Reviews in Food Science and Nutrition, 2022, 62, 3913-3929.	5.4	9
153	Anti HCV activity and expression inhibition of HCC markers by protein extract from <i>Iberis gibraltarica</i> . Brazilian Journal of Biology, 2022, 84, e252676.	0.4	1
154	Microbial Lipases for Polyester Degradation. Microorganisms for Sustainability, 2022, , 71-92.	0.4	1
155	Multifunctional nanodiamonds as emerging platforms for cancer treatment, and targeted delivery of genetic factors and protein medicationsâ€“a review. Journal of Materials Science, 2022, 57, 8064-8099.	1.7	8
156	Mechanisms of gene regulation by histone degradation in adaptation of yeast: an overview of recent advances. Archives of Microbiology, 2022, 204, 287.	1.0	8
157	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. Crystals, 2022, 12, 614.	1.0	7
158	Insight into soil nitrogen and phosphorus availability and agricultural sustainability by plant growth-promoting rhizobacteria. Environmental Science and Pollution Research, 2022, 29, 45089-45106.	2.7	29
159	Biotransformation of Agricultural By-Products into Biovanillin through Solid-State Fermentation (SSF) and Optimization of Different Parameters Using Response Surface Methodology (RSM). Fermentation, 2022, 8, 206.	1.4	5
160	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. Environmental Technology and Innovation, 2022, 28, 102649.	3.0	31
161	Silk-based nano-hydrogels for futuristic biomedical applications. Journal of Drug Delivery Science and Technology, 2022, 72, 103385.	1.4	7
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