Ram Naresh Bharagava

List of Publications by Year
in descending order

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125 papers	6,337 citations	94433 37 h-index	82547 72 g-index
128 all docs	128 docs citations	128 times ranked	6071 citing authors

#	Article	IF	Citations
1	Ecotoxicological and health concerns of persistent coloring pollutants of textile industry wastewater and treatment approaches for environmental safety. Journal of Environmental Chemical Engineering, 2021, 9, 105012.	6.7	450
2	Green synthesis of TiO2 nanoparticles using leaf extract of Jatropha curcas L. for photocatalytic degradation of tannery wastewater. Chemical Engineering Journal, 2018, 336, 386-396.	12.7	425
3	Toxic and genotoxic effects of hexavalent chromium in environment and its bioremediation strategies. Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2016, 34, 1-32.	2.9	320
4	Hexavalent chromium reduction potential of Cellulosimicrobium sp. isolated from common effluent treatment plant of tannery industries. Ecotoxicology and Environmental Safety, 2018, 147, 102-109.	6.0	262
5	A comprehensive review on green nanomaterials using biological systems: Recent perception and their future applications. Colloids and Surfaces B: Biointerfaces, 2018, 170, 20-35.	5.0	252
6	Environmental pollution and health hazards from distillery wastewater and treatment approaches to combat the environmental threats: A review. Chemosphere, 2018, 194, 229-246.	8.2	238
7	Accumulation and distribution of toxic metals in wheat (Triticum aestivum L.) and Indian mustard (Brassica campestris L.) irrigated with distillery and tannery effluents. Journal of Hazardous Materials, 2009, 162, 1514-1521.	12.4	217
8	Heavy Metal Contamination: An Alarming Threat to Environment and Human Health. , 2019, , 103-125.		208
9	Melanoidins as major colourant in sugarcane molasses based distillery effluent and its degradation. Bioresource Technology, 2008, 99, 4648-4660.	9.6	191
10	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. Bioresource Technology, 2021, 325, 124685.	9.6	138
11	Environmental threatening concern and efficient removal of pharmaceutically active compounds using metal-organic frameworks as adsorbents. Environmental Research, 2020, 185, 109436.	7.5	137
12	Characterization and Identification of Recalcitrant Organic Pollutants (ROPs) in Tannery Wastewater and Its Phytotoxicity Evaluation for Environmental Safety. Archives of Environmental Contamination and Toxicology, 2018, 75, 259-272.	4.1	127
13	Modifying bio-catalytic properties of enzymes for efficient biocatalysis: a review from immobilization strategies viewpoint. Biocatalysis and Biotransformation, 2019, 37, 159-182.	2.0	121
14	Microbial indicators, pathogens and methods for their monitoring in water environment. Journal of Water and Health, 2015, 13, 319-339.	2.6	118
15	Bacterial diversity, organic pollutants and their metabolites in two aeration lagoons of common effluent treatment plant (CETP) during the degradation and detoxification of tannery wastewater. Bioresource Technology, 2011, 102, 2333-2341.	9.6	117
16	Exposure to Crystal Violet, Its Toxic, Genotoxic and Carcinogenic Effects on Environment and Its Degradation and Detoxification for Environmental Safety. Reviews of Environmental Contamination and Toxicology, 2016, 237, 71-104.	1.3	117
17	Degradation and decolourization potential of an ligninolytic enzyme producing Aeromonas hydrophila for crystal violet dye and its phytotoxicity evaluation. Ecotoxicology and Environmental Safety, 2018, 156, 166-175.	6.0	113
18	Genotoxicity evaluation of tannery effluent treated with newly isolated hexavalent chromium reducing Bacillus cereus. Journal of Environmental Management, 2016, 183, 204-211.	7.8	112

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19	Phytotoxicity, cytotoxicity and genotoxicity evaluation of organic and inorganic pollutants rich tannery wastewater from a Common Effluent Treatment Plant (CETP) in Unnao district, India using Vigna radiata and Allium cepa. Chemosphere, 2019, 224, 324-332.	8.2	111
20	Phytoremediation of Heavy Metal-Contaminated Sites: Eco-environmental Concerns, Field Studies, Sustainability Issues, and Future Prospects. Reviews of Environmental Contamination and Toxicology, 2019, 249, 71-131.	1.3	103
21	Role of Industries in Water Scarcity and Its Adverse Effects on Environment and Human Health. , 2020, , 235-256.		103
22	Environmental Pollution, Toxicity Profile and Treatment Approaches for Tannery Wastewater and Its Chemical Pollutants. Reviews of Environmental Contamination and Toxicology, 2016, 240, 31-69.	1.3	100
23	Pretreatment of kenaf (Hibiscus cannabinus L.) biomass feedstock for polyhydroxybutyrate (PHB) production and characterization. Bioresource Technology, 2019, 282, 75-80.	9.6	84
24	Phytoextraction of trace elements and physiological changes in Indian mustard plants (Brassica nigra) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 99, 8316-8324.	9.6	76
25	Photocatalytic activity of CuO/Cu(OH)2 nanostructures in the degradation of Reactive Green 19A and textile effluent, phytotoxicity studies and their biogenic properties (antibacterial and anticancer). Journal of Environmental Management, 2018, 223, 1086-1097.	7.8	74
26	Microbial manganese peroxidase: a ligninolytic enzyme and its ample opportunities in research. SN Applied Sciences, 2019, 1, 1.	2.9	71
27	Isolation and characterization of aerobic bacteria capable of the degradation of synthetic and natural melanoidins from distillery effluent. World Journal of Microbiology and Biotechnology, 2009, 25, 737-744.	3.6	67
28	Textile Wastewater Dyes: Toxicity Profile and Treatment Approaches. , 2019, , 219-244.		66
29	Development of ultrasound aided chemical pretreatment methods to enrich saccharification of wheat waste biomass for polyhydroxybutyrate production and its characterization. Industrial Crops and Products, 2020, 150, 112425.	5.2	62
30	Mitigation of environmentally-related hazardous pollutants from water matrices using nanostructured materials â€“ A review. Chemosphere, 2020, 253, 126770.	8.2	62
31	Environmental impact of lignocellulosic wastes and their effective exploitation as smart carriers â€“ A drive towards greener and eco-friendlier biocatalytic systems. Science of the Total Environment, 2020, 722, 137903.	8.0	62
32	Effect of bacteria treated and untreated post-methanated distillery effluent (PMDE) on seed germination, seedling growth and amylase activity in Phaseolus mungo L. Journal of Hazardous Materials, 2010, 180, 730-734.	12.4	60
33	Biodegradation of the major color containing compounds in distillery wastewater by an aerobic bacterial culture and characterization of their metabolites. Biodegradation, 2010, 21, 703-711.	3.0	58
34	Isolation and characterization of lignin-degrading bacterium Bacillus aryabhattai from pulp and paper mill wastewater and evaluation of its lignin-degrading potential. 3 Biotech, 2019, 9, 92.	2.2	54
35	Environment friendly degradation and detoxification of Congo red dye and textile industry wastewater by a newly isolated Bacillus cohnni (RKS9). Environmental Technology and Innovation, 2021, 22, 101425.	6.1	50
36	Efficient degradation and detoxification of methylene blue dye by a newly isolated ligninolytic enzyme producing bacterium Bacillus albus MW407057. Colloids and Surfaces B: Biointerfaces, 2021, 206, 111947.	5.0	48

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37	As(III) and As(V) removal by using iron impregnated biosorbents derived from waste biomass of Citrus limmeta (peel and pulp) from the aqueous solution and ground water. Journal of Environmental Management, 2019, 250, 109452.	7.8	47
38	Efficient bioconversion of sugarcane bagasse into polyhydroxybutyrate (PHB) by Lysinibacillus sp. and its characterization. Bioresource Technology, 2021, 324, 124673.	9.6	46
39	Green Synthesis of Nanoparticles and Their Applications in Water and Wastewater Treatment. , 2020, , 349-379.		44
40	Degradation mechanism and toxicity reduction of methyl orange dye by a newly isolated bacterium Pseudomonas aeruginosa MZ520730. Journal of Water Process Engineering, 2021, 43, 102300.	5.6	44
41	Bacterial pretreatment enhances removal of heavy metals during treatment of post-methanated distillery effluent by Typha angustata L.. Journal of Environmental Management, 2008, 88, 1016-1024.	7.8	42
42	Utilization of Noxious Weed Water Hyacinth Biomass as a Potential Feedstock for Biopolymers Production: A Novel Approach. Polymers, 2020, 12, 1704.	4.5	37
43	Fungal biosynthesis of lignin-modifying enzymes from pulp wash and Luffa cylindrica for azo dye RB5 biodecolorization using modeling by response surface methodology and artificial neural network. Journal of Hazardous Materials, 2020, 399, 123094.	12.4	37
44	Investigation of photocatalytic degradation of reactive textile dyes by Portulaca oleracea-functionalized silver nanocomposites and exploration of their antibacterial and antidiabetic potentials. Journal of Alloys and Compounds, 2020, 833, 155083.	5.5	37
45	An overview of process monitoring for anaerobic digestion. Biosystems Engineering, 2021, 207, 106-119.	4.3	37
46	Distillery Wastewater: A Major Source of Environmental Pollution and Its Biological Treatment for Environmental Safety. , 2017, , 409-435.		36
47	Organophosphate Pesticides: Impact on Environment, Toxicity, and Their Degradation. , 2020, , 265-290.		35
48	Decolourisation of textile dye by laccase: Process evaluation and assessment of its degradation bioproducts. Bioresource Technology, 2021, 340, 125591.	9.6	35
49	Stress response of Triticum aestivum L. and Brassica juncea L. against heavy metals growing at distillery and tannery wastewater contaminated site. Chemosphere, 2018, 206, 122-131.	8.2	34
50	Bacterial degradation of synthetic and kraft lignin by axenic and mixed culture and their metabolic products. Journal of Environmental Biology, 2013, 34, 991-9.	0.5	32
51	Cellulose-deconstruction potential of nano-biocatalytic systems: A strategic drive from designing to sustainable applications of immobilized cellulases. International Journal of Biological Macromolecules, 2021, 185, 1-19.	7.5	30
52	Characterization of Phragmites cummunis rhizosphere bacterial communities and metabolic products during the two stage sequential treatment of post methanated distillery effluent by bacteria and wetland plants. Bioresource Technology, 2012, 103, 78-86.	9.6	29
53	Introduction to Industrial Wastes Containing Organic and Inorganic Pollutants and Bioremediation Approaches for Environmental Management. , 2020, , 1-18.		28
54	Reduction of hexavalent chromium by Microbacterium paraoxydans isolated from tannery wastewater and characterization of its reduced products. Journal of Water Process Engineering, 2021, 39, 101748.	5.6	26

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55	Oyster shell-based alkalinization and photocatalytic removal of cyanide as low-cost stabilization approaches for enhanced biogas production from cassava starch wastewater. Chemical Engineering Research and Design, 2020, 139, 47-59.	5.6	25
56	Aerobic degradation of fenvalerate by a Gram-positive bacterium, Bacillus flexus strain XJU-4. 3 Biotech, 2017, 7, 320.	2.2	24
57	Ligninâ€modifying enzymes: a green and environmental responsive technology for organic compound degradation. Journal of Chemical Technology and Biotechnology, 2022, 97, 327-342.	3.2	23
58	Degradation and detoxification of leather tannery effluent by a newly developed bacterial consortium GS-TE1310 for environmental safety. Journal of Water Process Engineering, 2020, 38, 101592.	5.6	22
59	Textile Industry Wastewater. , 2018, , 47-69.		22
60	EPS bound flavins driven mediated electron transfer in thermophilic Geobacillus sp.. Microbiological Research, 2019, 229, 126324.	5.3	21
61	Isolation and characterization of potential aerobic bacteria capable for pyridine degradation in presence of picoline, phenol and formaldehyde as co-pollutants. World Journal of Microbiology and Biotechnology, 2009, 25, 2113-2119.	3.6	19
62	Genetically Modified Organisms (GMOs) and Their Potential in Environmental Management: Constraints, Prospects, and Challenges. , 2020, , 1-19.		19
63	Sequential degradation of raw vinasse by a laccase enzyme producing fungus Pleurotus sajor-caju and its ATPS purification. Biotechnology Reports (Amsterdam, Netherlands), 2020, 25, e00411.	4.4	19
64	Mycoremediation of vinasse by surface response methodology and preliminary studies in air-lift bioreactors. Chemosphere, 2020, 244, 125432.	8.2	19
65	Characterization and identification of bacterial pathogens from treated tannery wastewater. Microbiology Research International, 2017, 5, 30-36.	0.3	19
66	A new approach using an open-source low cost system for monitoring and controlling biogas production from dairy wastewater. Journal of Cleaner Production, 2019, 241, 118284.	9.3	18
67	Ligninolytic Enzymes: An Introduction and Applications in the Food Industry. , 2019, , 181-195.		18
68	Biotransformation and Cytotoxicity Evaluation of Kraft Lignin Degraded by Ligninolytic Serratia liquefaciens. Frontiers in Microbiology, 2019, 10, 2364.	3.5	17
69	Bacterial degradation of distillery wastewater pollutants and their metabolites characterization and its toxicity evaluation by using Caenorhabditis elegans as terrestrial test models. Chemosphere, 2020, 261, 127689.	8.2	17
70	Toxic Metals in the Environment. , 2017, , 128-141.		17
71	Conventional Methods for the Removal of Industrial Pollutants, Their Merits and Demerits. , 2019, , 1-31.		16
72	Application of Microbial Enzymes in Degradation and Detoxification of Organic and Inorganic Pollutants. , 2020, , 41-51.		16

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73	Textile Industry Wastewaters as Major Sources of Environmental Contamination: Bioremediation Approaches for Its Degradation and Detoxification. , 2020, , 135-167.		16
74	Valorization of cassava residues for biogas production in Brazil based on the circular economy: An updated and comprehensive review. Cleaner Engineering and Technology, 2021, 4, 100196.	4.0	16
75	Keratin Production and Its Applications: Current and Future Perspective. Springer Series on Polymer and Composite Materials, 2019, , 19-34.	0.7	15
76	Hyper-production optimization of fungal oxidative green enzymes using citrus low-cost byproduct. Journal of Environmental Chemical Engineering, 2021, 9, 105013.	6.7	15
77	Environmental Hazards and Toxicity Profile of Organic and Inorganic Pollutants of Tannery Wastewater and Bioremediation Approaches. , 2020, , 381-398.		14
78	Detection and identification of hazardous organic pollutants from distillery wastewater by GC-MS analysis and its phytotoxicity and genotoxicity evaluation by using Allium cepa and Cicer arietinum L.. Chemosphere, 2022, 297, 134123.	8.2	14
79	Hydrometallurgical process for the recovery of yttrium from spent fluorescent lamp: Leaching and crystallization experiments. Journal of Cleaner Production, 2020, 261, 121009.	9.3	13
80	Lignin-Mediated Silver Nanoparticle Synthesis for Photocatalytic Degradation of Reactive Yellow 4G and In Vitro Assessment of Antioxidant, Antidiabetic, and Antibacterial Activities. Polymers, 2022, 14, 648.	4.5	13
81	Detection and Characterization of a Multi-drug and Multi-metal Resistant Enterobacterium Pantoea sp. from Tannery Wastewater after Secondary Treatment Process. International Journal of Plant and Environment, 2016, 2, 37-42.	0.4	12
82	Phenol degradation by Paenibacillus thiaminolyticus and Bacillus cereus in axenic and mixed conditions. World Journal of Microbiology and Biotechnology, 2011, 27, 2939-2947.	3.6	11
83	An Overview of Nitro Group-Containing Compounds and Herbicides Degradation in Microorganisms. Microorganisms for Sustainability, 2019, , 319-335.	0.7	11
84	Developing Microbial Co-Culture System for Enhanced Polyhydroxyalkanoates (PHA) Production Using Acid Pretreated Lignocellulosic Biomass. Polymers, 2022, 14, 726.	4.5	11
85	A Review of Micropollutant Removal by Microalgae. , 2019, , 41-55.		10
86	Pulp wash: a new source for production of ligninolytic enzymes and biomass and its toxicological evaluation after biological treatment. Environmental Technology (United Kingdom), 2020, 41, 1837-1847.	2.2	10
87	Fungal lignin-modifying enzymes induced by vinasse mycodegradation and its relationship with oxidative stress. Biocatalysis and Agricultural Biotechnology, 2020, 27, 101691.	3.1	10
88	Microbial Degradation of Phenolic Compounds. Microorganisms for Sustainability, 2019, , 305-320.	0.7	10
89	Characterization of sucroseâ€“glutamic acid Maillard products (SGMPs) degrading bacteria and their metabolites. Bioresource Technology, 2009, 100, 6665-6668.	9.6	9
90	Recent Advances in Physico-chemical and Biological Techniques for the Management of Pulp and Paper Mill Waste. , 2019, , 271-297.		9

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91	An Overview of Recent Advancements in Microbial Polyhydroxyalkanoates (PHA) Production from Dark Fermentation Acidogenic Effluents: A Path to an Integrated Bio-Refinery. Polymers, 2021, 13, 4297.	4.5	9
92	Biodegradation of pyridine raffinate by two bacterial co-cultures of Bacillus cereus (DQ435020) and Alcaligenes faecalis (DQ435021). World Journal of Microbiology and Biotechnology, 2010, 26, 685-692.	3.6	8
93	Emerging and Ecofriendly Technologies for the Removal of Organic and Inorganic Pollutants from Industrial Wastewaters. , 2020, , 113-126.		8
94	Processes for the removal of triclosan in the environment and engineered systems: a review. Environmental Reviews, 0, , 1-12.	4.5	6
95	Progresses in Bioremediation Technologies for Industrial Waste Treatment and Management: Challenges and Future Prospects. , 2020, , 531-538.		6
96	Application of microalgae in industrial effluent treatment, contaminants removal, and biodiesel production: Opportunities, challenges, and future prospects. , 2021, , 481-517.		6
97	Environmental contamination, toxicity profile and bioremediation technologies for treatment and detoxification of textile effluent. , 2021, , 415-434.		6
98	Emerging contaminants in environment: occurrence, toxicity, and management strategies with emphasis on microbial remediation and advanced oxidation processes. , 2021, , 1-14.		5
99	Industrial Wastewaters. , 2018, , 1-25.		5
100	Synergistic role of bacterial consortium (RKS-AMP) for treatment of recalcitrant coloring pollutants of textile industry wastewater. Journal of Water Process Engineering, 2022, 47, 102700.	5.6	5
101	Assessment of 14C-sulfadiazine on Danio rerio (zebrafish). Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 1001-1008.	1.5	4
102	Toxicity, Beneficial Aspects and Treatment of Alcohol Industry Wastewater. , 2019, , 83-97.		4
103	Vinasse bio-valorization for enhancement of Pleurotus biomass productivity: chemical characterization and carbohydrate analysis. Biomass Conversion and Biorefinery, 2023, 13, 10031-10040.	4.6	4
104	Emerging green technologies for biological treatment of leather tannery chemicals and wastewater. , 2021, , 435-457.		3
105	Agro-industrial Wastes: Environmental Toxicology, Risks, and Biological Treatment Approaches. Microorganisms for Sustainability, 2019, , 1-23.	0.7	3
106	Antitumor Microbial Products byÂActinomycetes Isolated from Different Environments. Microorganisms for Sustainability, 2020, , 113-160.	0.7	3
107	Environmental and Health Hazards of Textile Industry Wastewater Pollutants and Its Treatment Approaches. , 2020, , 1-24.		3
108	Transcriptome-wide identification and computational insights into protein modeling and docking of CAMTA transcription factors in Eleusine coracana L (finger millet). International Journal of Biological Macromolecules, 2022, 206, 768-776.	7.5	3

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109	Aqueous Two-Phase Systems: An Alternative Process for Industrial Dye Recovery. Microorganisms for Sustainability, 2021, , 35-55.	0.7	2
110	Membrane-based hybrid processes in industrial waste effluent treatment. , 2021, , 205-226.		2
111	Fungi Treatment of Synthetic Dyes by Using Agro-industrial Waste. , 2019, , 243-255.		2
112	Bioremediation. , 2017, , 1-22.		2
113	Metagenomics. , 2019, , 155-176.		2
114	Use of a solar low-cost open-source controlled plant for WCOEE synthesis based on eggshell catalyst. Bioresource Technology Reports, 2020, 11, 100430.	2.7	1
115	Chromium Contamination in the Environment, Health Hazards, and Bioremediation Approaches. , 2018, , 281-297.		1
116	Physicochemicalâ€“biotechnological approaches for removal of contaminants from wastewater. , 2022, , 241-261.		1
117	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.	0.7	0
118	Pollutants in Tannery Wastewater. , 2017, , 369-396.		0
119	Constructed Wetlands. , 2017, , 397-426.		0
120	Organic and Inorganic Pollutants in Industrial Wastes. , 2017, , 23-56.		0
121	Effects of Industrial Wastewaters on Soil Sustainability and Environment. , 2018, , 269-282.		0
122	Process of biodegradation controlled by nanoparticle-based materials: mechanisms, significance, and applications. , 2022, , 61-84.		0
123	Green Technologies for the Treatment of Pharmaceutical Contaminants in Wastewaters. Microorganisms for Sustainability, 2020, , 1-20.	0.7	0
124	Involvement of Synergistic Interactions Between Plant and Rhizospheric Microbes for the Removal of Toxic/Hazardous Contaminants. Rhizosphere Biology, 2021, , 223-238.	0.6	0
125	Overview of Waste Stabilization Ponds in Developing Countries. Handbook of Environmental Chemistry, 2021, , .	0.4	0