

Manish Kumar

List of Publications by Year in descending order

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66
papers

5,484
citations

70961

41
h-index

133063

59
g-index

67
all docs

67
docs citations

67
times ranked

3673
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastics as pollutants in agricultural soils. <i>Environmental Pollution</i> , 2020, 265, 114980.	3.7	359
2	Algae as potential feedstock for the production of biofuels and value-added products: Opportunities and challenges. <i>Science of the Total Environment</i> , 2020, 716, 137116.	3.9	299
3	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. <i>Bioresource Technology</i> , 2020, 312, 123613.	4.8	293
4	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. <i>Journal of Cleaner Production</i> , 2021, 305, 127143.	4.6	252
5	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	9.4	245
6	Carbon dioxide capture, storage and production of biofuel and biomaterials by bacteria: A review. <i>Bioresource Technology</i> , 2018, 247, 1059-1068.	4.8	186
7	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. <i>Science of the Total Environment</i> , 2020, 707, 136080.	3.9	184
8	Recent Named Entity Recognition and Classification techniques: A systematic review. <i>Computer Science Review</i> , 2018, 29, 21-43.	10.2	183
9	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. <i>Science of the Total Environment</i> , 2022, 822, 153555.	3.9	174
10	Microplastics as an emerging source of particulate air pollution: A critical review. <i>Journal of Hazardous Materials</i> , 2021, 418, 126245.	6.5	155
11	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. <i>Journal of Hazardous Materials</i> , 2021, 420, 126534.	6.5	150
12	Current research trends on micro- and nano-plastics as an emerging threat to global environment: A review. <i>Journal of Hazardous Materials</i> , 2021, 409, 124967.	6.5	147
13	Bacterial polyhydroxyalkanoates: Opportunities, challenges, and prospects. <i>Journal of Cleaner Production</i> , 2020, 263, 121500.	4.6	145
14	Sequestration and utilization of carbon dioxide by chemical and biological methods for biofuels and biomaterials by chemoautotrophs: Opportunities and challenges. <i>Bioresource Technology</i> , 2018, 256, 478-490.	4.8	126
15	On the widespread enhancement in fine particulate matter across the Indo-Gangetic Plain towards winter. <i>Scientific Reports</i> , 2020, 10, 5862.	1.6	125
16	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2022, 158, 106908.	4.8	125
17	Challenges and opportunities in bioremediation of micro-nano plastics: A review. <i>Science of the Total Environment</i> , 2022, 802, 149823.	3.9	109
18	Modified biochar as a green adsorbent for removal of hexavalent chromium from various environmental matrices: Mechanisms, methods, and prospects. <i>Chemical Engineering Journal</i> , 2022, 439, 135716.	6.6	108

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19	Multidimensional approaches of biogas production and up-gradation: Opportunities and challenges. <i>Bioresource Technology</i> , 2021, 338, 125514.	4.8	97
20	The polymers and their additives in particulate plastics: What makes them hazardous to the fauna?. <i>Science of the Total Environment</i> , 2022, 824, 153828.	3.9	97
21	Critical Review on Biochar-Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900149.	2.7	93
22	Plant microbial fuel cell: Opportunities, challenges, and prospects. <i>Bioresource Technology</i> , 2021, 341, 125772.	4.8	90
23	Concurrent modifications in the three homeologs of Ms45 gene with CRISPR-Cas9 lead to rapid generation of male sterile bread wheat (<i>Triticum aestivum</i> L.). <i>Plant Molecular Biology</i> , 2018, 97, 371-383.	2.0	89
24	Genomic and proteomic analysis of lignin degrading and polyhydroxyalkanoate accumulating β -proteobacterium <i>Pandoraea</i> sp. ISTKB. <i>Biotechnology for Biofuels</i> , 2018, 11, 154.	6.2	88
25	Integration of scheduling with computer aided process planning. <i>Journal of Materials Processing Technology</i> , 2003, 138, 297-300.	3.1	82
26	Microplastics in seafood as an emerging threat to marine environment: A case study in Goa, west coast of India. <i>Chemosphere</i> , 2021, 270, 129359.	4.2	78
27	Are microplastics destabilizing the global network of terrestrial and aquatic ecosystem services?. <i>Environmental Research</i> , 2021, 198, 111243.	3.7	77
28	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	3.7	75
29	Recovery of polyhydroxyalkanoates from municipal secondary wastewater sludge. <i>Bioresource Technology</i> , 2018, 255, 111-115.	4.8	73
30	Biodiesel production from municipal secondary sludge. <i>Bioresource Technology</i> , 2016, 216, 165-171.	4.8	71
31	Role of plant growth-promoting rhizobacteria in boosting the phytoremediation of stressed soils: Opportunities, challenges, and prospects. <i>Chemosphere</i> , 2022, 303, 134954.	4.2	68
32	Carbon dioxide sequestration by chemolithotrophic oleaginous bacteria for production and optimization of polyhydroxyalkanoate. <i>Bioresource Technology</i> , 2016, 213, 249-256.	4.8	65
33	Role of microbial diversity to influence the growth and environmental remediation capacity of bamboo: A review. <i>Industrial Crops and Products</i> , 2021, 167, 113567.	2.5	64
34	Multi-criteria research lines on livestock manure biorefinery development towards a circular economy: From the perspective of a life cycle assessment and business models strategies. <i>Journal of Cleaner Production</i> , 2022, 341, 130862.	4.6	64
35	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021, 320, 124412.	4.8	60
36	Integration of process planning and scheduling in a job shop environment. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 28, 109-116.	1.5	52

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37	Distribution, transformation and remediation of poly- and per-fluoroalkyl substances (PFAS) in wastewater sources. <i>Chemical Engineering Research and Design</i> , 2022, 164, 91-108.	2.7	48
38	Municipal secondary sludge as carbon source for production and characterization of biodiesel from oleaginous bacteria. <i>Bioresource Technology Reports</i> , 2018, 4, 106-113.	1.5	47
39	Characterization of carbon dioxide concentrating chemolithotrophic bacterium <i>Serratia</i> sp. ISTD04 for production of biodiesel. <i>Bioresource Technology</i> , 2017, 243, 893-897.	4.8	46
40	Targeted mutagenesis of a conserved anther-expressed P450 gene confers male sterility in monocots. <i>Plant Biotechnology Journal</i> , 2017, 15, 379-389.	4.1	45
41	Biotechnological potential of rumen microbiota for sustainable bioconversion of lignocellulosic waste to biofuels and value-added products. <i>Science of the Total Environment</i> , 2022, 814, 152773.	3.9	45
42	A comprehensive review on recent advancements in biodegradation and sustainable management of biopolymers. <i>Environmental Pollution</i> , 2022, 307, 119600.	3.7	45
43	Biofilm formation and its implications on the properties and fate of microplastics in aquatic environments: A review. <i>Journal of Hazardous Materials Advances</i> , 2022, 6, 100077.	1.2	43
44	Mobilization of contaminants: Potential for soil remediation and unintended consequences. <i>Science of the Total Environment</i> , 2022, 839, 156373.	3.9	43
45	Utilization of glycerol by <i>Bacillus</i> sp. ISTVK1 for production and characterization of Polyhydroxyvalerate. <i>Bioresource Technology Reports</i> , 2018, 2, 1-6.	1.5	42
46	A study on Internet addiction and its relation to psychopathology and self-esteem among college students. <i>Industrial Psychiatry</i> , 2018, 27, 61.	0.3	42
47	Opportunities and challenges of utilizing energy crops in phytoremediation of environmental pollutants: A review. , 2021, , 383-396.		34
48	Multifunctional applications of bamboo crop beyond environmental management: an Indian prospective. <i>Bioengineered</i> , 2022, 13, 8893-8914.	1.4	34
49	MS26/CYP704B is required for anther and pollen wall development in bread wheat (<i>Triticum aestivum</i>) Tj ETQq1 1 0.784314 ggBT /Ov 1.1 38		
50	Genomic analysis of carbon dioxide sequestering bacterium for exopolysaccharides production. <i>Scientific Reports</i> , 2019, 9, 4270.	1.6	23
51	Genome Sequence of <i>Pandoraea</i> sp. ISTKB, a Lignin-Degrading Betaproteobacterium, Isolated from Rhizospheric Soil. <i>Genome Announcements</i> , 2016, 4, .	0.8	22
52	Traditional System Versus DNA Barcoding in Identification of Bamboo Species: A Systematic Review. <i>Molecular Biotechnology</i> , 2021, 63, 651-675.	1.3	21
53	Optimization of Process Parameters for the Production of Biodiesel from Carbon dioxide Sequestering Bacteriu. , 0, 3, 43-50.		17
54	Genome Sequence of Carbon Dioxide-Sequestering <i>Serratia</i> sp. Strain ISTD04 Isolated from Marble Mining Rocks. <i>Genome Announcements</i> , 2016, 4, .	0.8	16

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55	Bacterial production of fatty acid and biodiesel: opportunity and challenges. , 2020, , 21-49.		12
56	Synthesis of bioactive material by solâ€“gel process utilizing polymorphic calcium carbonate precipitate and their direct and indirect in-vitro cytotoxicity analysis. Environmental Technology and Innovation, 2020, 18, 100647.	3.0	11
57	Phytocapping: an eco-sustainable green technology for environmental pollution control. , 2021, , 481-491.		11
58	Biomass energy with carbon capture and storage (BECCS). , 2020, , 399-427.		10
59	Phytoremediation of persistent organic pollutants: Concept challenges and perspectives. , 2022, , 375-404.		10
60	Development of a generative CAPP system for axisymmetric components for a job shop environment. International Journal of Advanced Manufacturing Technology, 2005, 27, 136-144.	1.5	8
61	Analysis of Different Supervised Techniques for Named Entity Recognition. Communications in Computer and Information Science, 2019, , 184-195.	0.4	6
62	Phytocapping technology for sustainable management of contaminated sites: case studies, challenges, and future prospects. , 2022, , 601-616.		5
63	Recurrent Neural Network-Based Model for Named Entity Recognition with Improved Word Embeddings. IETE Journal of Research, 2023, 69, 6970-6976.	1.8	4
64	Environmental DNA insights in search of novel genes/taxa for production of biofuels and biomaterials. , 2022, , 111-135.		3
65	Cost based scheduling in a job shop environment. International Journal of Advanced Manufacturing Technology, 2006, 30, 1144-1153.	1.5	2
66	Algal-Based Biofuel Production: Opportunities, Challenges, and Prospects. Clean Energy Production Technologies, 2022, , 155-180.	0.3	2