

Sheena K Kumari

List of Publications by Year in descending order

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84
papers

3,462
citations

201674

27
h-index

149698

56
g-index

85
all docs

85
docs citations

85
times ranked

4235
citing authors

#	ARTICLE	IF	CITATIONS
1	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	13.3	491
2	Bioprospecting for hyper-lipid producing microalgal strains for sustainable biofuel production. <i>Bioresource Technology</i> , 2011, 102, 57-70.	9.6	381
3	Microplastics in the environment: Interactions with microbes and chemical contaminants. <i>Science of the Total Environment</i> , 2020, 743, 140518.	8.0	229
4	Trends and novel strategies for enhancing lipid accumulation and quality in microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 1-16.	16.4	227
5	Investigation of combined effect of nitrogen, phosphorus and iron on lipid productivity of microalgae <i>Ankistrodesmus falcatus</i> KJ671624 using response surface methodology. <i>Biochemical Engineering Journal</i> , 2015, 94, 22-29.	3.6	169
6	Biohydrogen production from sugarcane bagasse hydrolysate: effects of pH, S/X, Fe ²⁺ , and magnetite nanoparticles. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8790-8804.	5.3	132
7	Prospects, recent advancements and challenges of different wastewater streams for microalgal cultivation. <i>Journal of Environmental Management</i> , 2017, 203, 299-315.	7.8	132
8	Coronaviruses in wastewater processes: Source, fate and potential risks. <i>Environment International</i> , 2020, 143, 105962.	10.0	108
9	Continuous biohydrogen production from starch wastewater via sequential dark-photo fermentation with emphasize on maghemite nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 500-506.	5.8	94
10	Trends in biohydrogen production: major challenges and state-of-the-art developments. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1653-1670.	2.2	92
11	Biodiesel synthesis from microalgae using immobilized <i>Aspergillus niger</i> whole cell lipase biocatalyst. <i>Renewable Energy</i> , 2016, 85, 1002-1010.	8.9	87
12	Status of pathogens, antibiotic resistance genes and antibiotic residues in wastewater treatment systems. <i>Reviews in Environmental Science and Biotechnology</i> , 2017, 16, 491-515.	8.1	80
13	Critical Analysis of Biomass Retention Strategies in Mainstream and Sidestream ANAMMOX-Mediated Nitrogen Removal Systems. <i>Environmental Science & Technology</i> , 2021, 55, 9-24.	10.0	68
14	Combined metals and EDTA control: An integrated and scalable lipid enhancement strategy to alleviate biomass constraints in microalgae under nitrogen limited conditions. <i>Energy Conversion and Management</i> , 2016, 114, 100-109.	9.2	52
15	Pathways of 3-biofuels (hydrogen, ethanol and methane) production from petrochemical industry wastewater via anaerobic packed bed baffled reactor inoculated with mixed culture bacteria. <i>Energy Conversion and Management</i> , 2016, 122, 119-130.	9.2	46
16	Emerging contaminants in South African water environment- a critical review of their occurrence, sources and ecotoxicological risks. <i>Chemosphere</i> , 2021, 269, 128737.	8.2	46
17	Utilization of <i>Pistia stratiotes</i> (aquatic weed) for fermentative biohydrogen: Electron-equivalent balance, stoichiometry, and cost estimation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8243-8255.	7.1	43
18	Effect of thermal pre-treatment on inoculum sludge to enhance bio-hydrogen production from alkali hydrolysed rice straw in a mesophilic anaerobic baffled reactor. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1653-1670.	2.2	92

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19	Application of quantitative RT-PCR to determine the distribution of <i>Microthrix parvicella</i> in full-scale activated sludge treatment systems. <i>Applied Microbiology and Biotechnology</i> , 2009, 83, 1135-1141.	3.6	39
20	ACCase and <i>rbcl</i> gene expression as a function of nutrient and metal stress for enhancing lipid productivity in <i>Chlorella sorokiniana</i> . <i>Energy Conversion and Management</i> , 2017, 148, 809-819.	9.2	38
21	Decision tree for identification and prediction of filamentous bulking at full-scale activated sludge wastewater treatment plant. <i>Chemical Engineering Research and Design</i> , 2019, 126, 25-34.	5.6	38
22	Monitoring changes in COVID-19 infection using wastewater-based epidemiology: A South African perspective. <i>Science of the Total Environment</i> , 2021, 786, 147273.	8.0	38
23	Multidisciplinary characterization of nitrogen-removal granular sludge: A review of advances and technologies. <i>Water Research</i> , 2022, 214, 118214.	11.3	34
24	Comparison of droplet digital PCR and quantitative PCR for the detection of <i>Salmonella</i> and its application for river sediments. <i>Journal of Water and Health</i> , 2017, 15, 505-508.	2.6	32
25	Detection of SARS-CoV-2 RNA on contact surfaces within shared sanitation facilities. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 236, 113807.	4.3	31
26	Optimization of biogas generation using anaerobic digestion models and computational intelligence approaches. <i>Reviews in Chemical Engineering</i> , 2017, 33, .	4.4	30
27	Algae-mediated processes for the treatment of antiretroviral drugs in wastewater: Prospects and challenges. <i>Chemosphere</i> , 2021, 280, 130674.	8.2	30
28	Polyhydroxyalkanoates production from fermented paperboard mill wastewater using acetate-enriched bacteria. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 935-947.	4.1	29
29	Upgrading continuous H ₂ gas recovery from rice straw hydrolysate via fermentation process amended with magnetite nanoparticles. <i>International Journal of Energy Research</i> , 2019, 43, 3516-3527.	4.5	29
30	Effect of selected wastewater characteristics on estimation of SARS-CoV-2 viral load in wastewater. <i>Environmental Research</i> , 2022, 203, 111877.	7.5	29
31	Use of mixed culture bacteria for photofermentive hydrogen of dark fermentation effluent. <i>Bioresource Technology</i> , 2014, 168, 119-126.	9.6	27
32	Extraction and characterisation of analytical grade C-phycoyanin from <i>Euhalothece</i> sp.. <i>Journal of Applied Phycology</i> , 2019, 31, 1661-1674.	2.8	26
33	Microalgae Applications in Wastewater Treatment. <i>Green Energy and Technology</i> , 2016, , 249-268.	0.6	26
34	Biohydrogen fermentation from <i>Pistia stratiotes</i> (aquatic weed) using mixed and pure bacterial cultures. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17720-17731.	7.1	25
35	Elucidating the role of nutrients in C-phycoyanin production by the halophilic cyanobacterium <i>Euhalothece</i> sp.. <i>Journal of Applied Phycology</i> , 2018, 30, 2259-2271.	2.8	23
36	RT-LAMP: A Cheaper, Simpler and Faster Alternative for the Detection of SARS-CoV-2 in Wastewater. <i>Food and Environmental Virology</i> , 2021, 13, 447-456.	3.4	23

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37	Artificial intelligence and multivariate statistics for comprehensive assessment of filamentous bacteria in wastewater treatment plants experiencing sludge bulking. <i>Environmental Technology and Innovation</i> , 2020, 19, 100853.	6.1	22
38	Kinetic Modelling and Characterization of Microbial Community Present in a Full-Scale UASB Reactor Treating Brewery Effluent. <i>Microbial Ecology</i> , 2014, 67, 358-368.	2.8	20
39	Physiological responses of carbon-sequestering microalgae to elevated carbon regimes. <i>European Journal of Phycology</i> , 2016, 51, 401-412.	2.0	18
40	Phenotypic and genotypic characterisation of an unique indigenous hypersaline unicellular cyanobacterium, <i>Euhalothece</i> sp.nov. <i>Microbiological Research</i> , 2018, 211, 47-56.	5.3	17
41	Impact of sludge bulking on receiving environment using quantitative microbial risk assessment (QMRA)-based management for full-scale wastewater treatment plants. <i>Journal of Environmental Management</i> , 2020, 267, 110660.	7.8	17
42	Artificial Intelligence for the Evaluation of Operational Parameters Influencing Nitrification and Nitrifiers in an Activated Sludge Process. <i>Microbial Ecology</i> , 2016, 72, 49-63.	2.8	16
43	Principal component analysis and characterization of methane community in a full-scale bioenergy producing UASB reactor treating brewery wastewater. <i>Physics and Chemistry of the Earth</i> , 2018, 108, 1-8.	2.9	16
44	Evaluation of phytotoxicity effect on selected crops using treated and untreated wastewater from different configurative domestic wastewater plants. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1782-1789.	2.2	15
45	Principal component analysis for interaction of nitrifiers and wastewater environments at a full-scale activated sludge plant. <i>International Journal of Environmental Science and Technology</i> , 2018, 15, 1477-1490.	3.5	14
46	Identification, antibiotic resistance, and virulence profiling of <i>Aeromonas</i> and <i>Pseudomonas</i> species from wastewater and surface water. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 294.	2.7	14
47	Profiling of emerging pathogens, antibiotic resistance genes and mobile genetic elements in different biological wastewater treatment plants. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107596.	6.7	14
48	Sustainable fermentation approach for biogenic hydrogen productivity from delignified sugarcane bagasse. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37343-37358.	7.1	13
49	A logistic model for the remediation of filamentous bulking in a biological nutrient removal wastewater treatment plant. <i>Water Science and Technology</i> , 2015, 72, 391-405.	2.5	12
50	A review on application of next-generation sequencing methods for profiling of protozoan parasites in water: Current methodologies, challenges, and perspectives. <i>Journal of Microbiological Methods</i> , 2021, 187, 106269.	1.6	12
51	Wastewater-Based Surveillance of Antibiotic Resistance Genes Associated with Tuberculosis Treatment Regimen in KwaZulu Natal, South Africa. <i>Antibiotics</i> , 2021, 10, 1362.	3.7	12
52	Ecophysiology of nitrifying communities in membrane bioreactors. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 747-762.	3.5	11
53	Characterization of brewery wastewater composition. <i>International Journal of Ecological Science and Environmental Engineering</i> , 2015, 9, 1073-1076.	0.0	11
54	Phenol degrading ability of <i>Rhodococcus pyridinivorans</i> and <i>Pseudomonas aeruginosa</i> isolated from activated sludge plants in South Africa. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 947-953.	1.7	10

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55	Rapid quantification and analysis of genetic diversity among <i>Gordonia</i> populations in foaming activated sludge plants. <i>Journal of Basic Microbiology</i> , 2011, 51, 415-423.	3.3	9
56	Impact of informal settlements and wastewater treatment plants on helminth egg contamination of urban rivers and risks associated with exposure. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 713.	2.7	9
57	Phycoremediation of Emerging Contaminants. , 2015, , 129-146.		8
58	Role of treatment configuration in simultaneous removal of priority phthalic acid esters and nitrogen in a post anoxic integrated biofilm activated sludge system. <i>Science of the Total Environment</i> , 2020, 702, 134733.	8.0	8
59	The evaluation of COD fractionation and modeling as a key factor for appropriate optimization and monitoring of modern cost-effective activated sludge systems. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 736-744.	1.7	7
60	Performance assessment of aerobic granulation for the post treatment of anaerobic effluents. <i>Environmental Technology and Innovation</i> , 2020, 17, 100588.	6.1	7
61	Microbiota of a Full-scale UASB Reactor Treating Brewery Wastewater Using Illumina MiSeq Sequencing. <i>Open Microbiology Journal</i> , 2019, 13, 1-9.	0.7	7
62	Molecular surveillance of tuberculosis-causing mycobacteria in wastewater. <i>Heliyon</i> , 2022, 8, e08910.	3.2	7
63	Distribution of <i>Nitrosomonas</i> -Related Ammonia-Oxidizing Bacteria and <i>Nitrobacter</i> -Related Nitrite-Oxidizing Bacteria in Two Full-Scale Biological Nutrient Removal Plants. <i>Water Environment Research</i> , 2013, 85, 374-381.	2.7	6
64	Potential strategies for the mainstream application of anammox in treatment of anaerobic effluents - A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2567-2594.	12.8	6
65	Fuzzy inference optimization algorithms for enhancing the modelling accuracy of wastewater quality parameters. <i>Journal of Environmental Management</i> , 2021, 293, 112862.	7.8	6
66	Critical review of process control strategies in anammox-mediated nitrogen removal systems. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108068.	6.7	6
67	Evaluation of Ammonia Oxidizing Bacterial Community Structure of a Municipal Activated Sludge Plant by 454 High-Throughput Pyrosequencing. <i>Environmental Processes</i> , 2018, 5, 43-57.	3.5	5
68	Development and evaluation of a molecular based protocol for detection and quantification of <i>Cryptosporidium</i> spp. in wastewater. <i>Experimental Parasitology</i> , 2022, 234, 108216.	1.2	5
69	Effect of ammonium to nitrite ratio on reactor performance and microbial population structure in anammox reactors. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3396-3411.	2.2	4
70	An in silico structural and physiochemical analysis of C-Phycocyanin of halophile <i>Euhalothece</i> sp.. <i>Algal Research</i> , 2020, 51, 102025.	4.6	4
71	Detection of multidrug resistant environmental isolates of <i>Acinetobacter</i> and <i>Stenotrophomonas maltophilia</i> : a possible threat for community acquired infections?. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 1-13.	1.7	4
72	Potential and Challenges Encountered in the Application of Wastewater-Based Epidemiology as an Early Warning System for COVID-19 Infections in South Africa. <i>ACS ES&T Water</i> , 2022, 2, 2105-2113.	4.6	4

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73	Development of <i>Bacillus</i> spp. consortium for one-step "Aerobic Nitrification-Denitrification" in a fluidized-bed reactor. <i>Bioresource Technology Reports</i> , 2022, 17, 100922.	2.7	3
74	Epibiont growth on filamentous bacteria found in activated sludge: a morphological approach. <i>Archives of Microbiology</i> , 2018, 200, 493-503.	2.2	2
75	Proposed formulations for error reduction in leachate pollution index (LPI) estimation due to the absence of leachate parameters. <i>Environmental Technology and Innovation</i> , 2021, 23, 101623.	6.1	2
76	Technological Advances in Biohydrogen Production from Microalgae. , 2017, , 347-360.		2
77	Impact of pre-treatments on nitrifying bacterial community analysis from wastewater using fluorescent in situ hybridization and confocal scanning laser microscopy. <i>Journal of General and Applied Microbiology</i> , 2010, 56, 101-106.	0.7	2
78	Pharmacognostical and Phytochemical Evaluation of the leaves of <i>Bauhinia purpurea</i> Linn. <i>Ancient Science of Life: Journal of International Institute of Ayurveda</i> , 2010, 30, 28-32.	0.3	2
79	Characterization of <i>Nocardia farcinica</i> , a Filamentous Bacterium Isolated from Foaming Activated Sludge Samples. <i>Water Environment Research</i> , 2011, 83, 527-531.	2.7	1
80	Transport of Emerging Contaminants from Agricultural Soil to Groundwater. <i>Sustainable Agriculture Reviews</i> , 2021, , 261-281.	1.1	1
81	Process Performance and Microbial Community Structures in Three Anammox-Mediated Systems with Different Mixing Conditions. <i>Journal of Environmental Chemical Engineering</i> , 2021, , 106466.	6.7	1
82	Chapter 4 Molecular Characterization and Quantification of Microbial Communities in Wastewater Treatment Systems. , 2016, , 59-114.		1
83	Genetic Engineering Tools for Enhancing Lipid Production in Microalgae. , 2015, , 119-127.		0
84	Biotechnological Intervention to Enhance the Potential Ability of Bioenergy Plants for Phytoremediation. , 2017, , 387-408.		0