

# Ajay S Kalamdhad

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5665222/publications.pdf>

Version: 2024-02-01

190  
papers

5,476  
citations

76322

40  
h-index

123420

61  
g-index

194  
all docs

194  
docs citations

194  
times ranked

4101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pre-treatment and anaerobic digestion of food waste for high rate methane production – A review. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1821-1830.	6.7	232
2	A review on enhanced biogas production from anaerobic digestion of lignocellulosic biomass by different enhancement techniques. <i>Process Biochemistry</i> , 2019, 84, 81-90.	3.7	171
3	Assessment of bioavailability and leachability of heavy metals during rotary drum composting of green waste (Water hyacinth). <i>Ecological Engineering</i> , 2013, 52, 59-69.	3.6	155
4	Rotary drum composting of vegetable waste and tree leaves. <i>Bioresource Technology</i> , 2009, 100, 6442-6450.	9.6	142
5	Recent advances in removal of lignin from paper industry wastewater and its industrial applications – A review. <i>Bioresource Technology</i> , 2020, 312, 123636.	9.6	126
6	Biochar amendment for batch composting of nitrogen rich organic waste: Effect on degradation kinetics, composting physics and nutritional properties. <i>Bioresource Technology</i> , 2018, 253, 204-213.	9.6	121
7	Concentration and speciation of heavy metals during water hyacinth composting. <i>Bioresource Technology</i> , 2012, 124, 169-179.	9.6	115
8	Application of drum compost and vermicompost to improve soil health, growth, and yield parameters for tomato and cabbage plants. <i>Journal of Environmental Management</i> , 2017, 200, 243-252.	7.8	108
9	An investigation on use of paper mill sludge in brick manufacturing. <i>Construction and Building Materials</i> , 2017, 148, 334-343.	7.2	106
10	Influence of pretreatment techniques on anaerobic digestion of pulp and paper mill sludge: A review. <i>Bioresource Technology</i> , 2017, 245, 1206-1219.	9.6	104
11	Optimization of methane production during anaerobic co-digestion of rice straw and hydrilla verticillata using response surface methodology. <i>Fuel</i> , 2019, 235, 92-99.	6.4	96
12	Effects of turning frequency on compost stability and some chemical characteristics in a rotary drum composter. <i>Chemosphere</i> , 2009, 74, 1327-1334.	8.2	92
13	Stability evaluation of compost by respiration techniques in a rotary drum composter. <i>Resources, Conservation and Recycling</i> , 2008, 52, 829-834.	10.8	89
14	Fungal pretreatment and associated kinetics of rice straw hydrolysis to accelerate methane yield from anaerobic digestion. <i>Bioresource Technology</i> , 2019, 286, 121368.	9.6	89
15	Effect of different livestock dungs as inoculum on food waste anaerobic digestion and its kinetics. <i>Bioresource Technology</i> , 2015, 180, 237-241.	9.6	86
16	Effects of lime on bioavailability and leachability of heavy metals during agitated pile composting of water hyacinth. <i>Bioresource Technology</i> , 2013, 138, 148-155.	9.6	71
17	Effect of various types of thermal pretreatment techniques on the hydrolysis, compositional analysis and characterization of water hyacinth. <i>Bioresource Technology</i> , 2017, 227, 147-154.	9.6	68
18	Heavy metal pollution and potential ecological risk assessment for surficial sediments of Deepor Beel, India. <i>Ecological Indicators</i> , 2021, 122, 107265.	6.3	67

#	ARTICLE	IF	CITATIONS
19	Microbial pretreatment of water hyacinth for enhanced hydrolysis followed by biogas production. <i>Renewable Energy</i> , 2018, 126, 21-29.	8.9	66
20	Optimization of process parameters for accelerated methane yield from anaerobic co-digestion of rice straw and food waste. <i>Renewable Energy</i> , 2020, 149, 1352-1359.	8.9	66
21	Evaluation of Cd(II) biosorption in aqueous solution by using lyophilized biomass of novel bacterial strain <i>Bacillusadius</i> AK: Biosorption kinetics, thermodynamics and mechanism. <i>Environmental Technology and Innovation</i> , 2019, 14, 100323.	6.1	64
22	Enhanced methane potential of rice straw with microwave assisted pretreatment and its kinetic analysis. <i>Journal of Environmental Management</i> , 2019, 232, 188-196.	7.8	62
23	Biodegradation of modified Poly(lactic acid) based biocomposite films under thermophilic composting conditions. <i>Polymer Testing</i> , 2019, 76, 522-536.	4.8	59
24	Enhancement of hydrolysis of lignocellulose waste pulp and paper mill sludge through different heating processes on thermal pretreatment. <i>Journal of Cleaner Production</i> , 2017, 168, 219-226.	9.3	55
25	Enhanced methane production and its kinetics model of thermally pretreated lignocellulose waste material. <i>Bioresource Technology</i> , 2017, 241, 1-9.	9.6	53
26	Biogenic stabilization and heavy metal immobilization during vermicomposting of vegetable waste with biochar amendment. <i>Journal of Hazardous Materials</i> , 2020, 390, 121366.	12.4	53
27	Effect of <i>Eisenia fetida</i> on speciation of heavy metals during vermicomposting of water hyacinth. <i>Ecological Engineering</i> , 2013, 60, 214-223.	3.6	52
28	Process performance and biogas production optimizing of mesophilic plug flow anaerobic digestion of corn silage. <i>Fuel</i> , 2019, 253, 1097-1103.	6.4	52
29	Biochemical methane potential test for pulp and paper mill sludge with different food / microorganisms ratios and its kinetics. <i>International Biodeterioration and Biodegradation</i> , 2017, 117, 197-204.	3.9	51
30	Efficacy of batch mode rotary drum composter for management of aquatic weed ( <i>Hydrilla verticillata</i> ) Tj ETQqO 0 Q,rgBT /Overlock 10 T	7.8	51
31	Transformation of elemental toxic metals into immobile fractions in paper mill sludge through rotary drum composting. <i>Ecological Engineering</i> , 2017, 101, 185-192.	3.6	49
32	Anaerobic co-digestion of water hyacinth and banana peels with and without thermal pretreatment. <i>Renewable Energy</i> , 2019, 134, 103-112.	8.9	48
33	End-of-life evaluation and biodegradation of Poly(lactic acid) (PLA)/Polycaprolactone (PCL)/Microcrystalline cellulose (MCC) polyblends under composting conditions. <i>Chemosphere</i> , 2020, 247, 125875.	8.2	47
34	Rotary drum composting of different organic waste mixtures. <i>Waste Management and Research</i> , 2009, 27, 129-137.	3.9	46
35	Electrohydrolysis pretreatment for enhanced methane production from lignocellulose waste pulp and paper mill sludge and its kinetics. <i>Bioresource Technology</i> , 2018, 252, 52-58.	9.6	45
36	Green synthesis of iron nanoparticle from extract of waste tea: An application for phenol red removal from aqueous solution. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018, 10, 377-387.	2.9	45

#	ARTICLE	IF	CITATIONS
37	Biodegradation and characterization study of compostable PLA bioplastic containing algae biomass as potential degradation accelerator. <i>Environmental Challenges</i> , 2021, 3, 100067.	4.2	45
38	GIS-based locational analysis of collection bins in municipal solid waste management systems. <i>Journal of Environmental Engineering and Science</i> , 2008, 7, 39-43.	0.8	44
39	Transformation of nutrients and heavy metals during vermicomposting of the invasive green weed <i>Salvinia natans</i> using <i>Eisenia fetida</i> . <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2016, 5, 205-220.	2.0	44
40	Degraded municipal solid waste as partial substitute for manufacturing fired bricks. <i>Construction and Building Materials</i> , 2017, 155, 259-266.	7.2	44
41	Biogas production from water hyacinth in a novel anaerobic digester: A continuous study. <i>Chemical Engineering Research and Design</i> , 2019, 127, 82-89.	5.6	44
42	Mixed organic waste composting using rotary drum composter. <i>International Journal of Environment and Waste Management</i> , 2008, 2, 24.	0.3	42
43	Information entropy as a tool in surface water quality assessment. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	41
44	Enhanced methane production from anaerobic co-digestion of rice straw and hydrilla verticillata and its kinetic analysis. <i>Biomass and Bioenergy</i> , 2019, 125, 8-16.	5.7	40
45	Microbial degradation of lignocellulosic fractions during drum composting of mixed organic waste. <i>Sustainable Environment Research</i> , 2017, 27, 265-272.	4.2	38
46	Potential for composting of green phumdi biomass of Loktak lake. <i>Ecological Engineering</i> , 2014, 67, 119-126.	3.6	37
47	Biochemical methane potential test of untreated and hot air oven pretreated water hyacinth: A comparative study. <i>Journal of Cleaner Production</i> , 2017, 166, 273-284.	9.3	37
48	A modified indexing approach for assessment of heavy metal contamination in Deepor Beel, India. <i>Ecological Indicators</i> , 2019, 106, 105444.	6.3	37
49	Bio-inherent attributes of water hyacinth procured from contaminated water body—effect of its compost on seed germination and radicle growth. <i>Journal of Environmental Management</i> , 2020, 257, 109990.	7.8	36
50	A mass diffusion model on the effect of moisture content for solid-state anaerobic digestion. <i>Journal of Cleaner Production</i> , 2017, 162, 371-379.	9.3	35
51	A review on management of <i>Hydrilla verticillata</i> and its utilization as potential nitrogen-rich biomass for compost or biogas production. <i>Bioresource Technology Reports</i> , 2018, 1, 69-78.	2.7	35
52	Microbes involved in arsenic mobilization and respiration: a review on isolation, identification, isolates and implications. <i>Environmental Geochemistry and Health</i> , 2020, 42, 3443-3469.	3.4	35
53	Maturation of primary stabilized compost from rotary drum composter. <i>Resources, Conservation and Recycling</i> , 2009, 53, 386-392.	10.8	34
54	Reduction of bioavailability and leachability of heavy metals during vermicomposting of water hyacinth. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8974-8985.	5.3	34

#	ARTICLE	IF	CITATIONS
55	Potential of waste carbide sludge addition on earthworm growth and organic matter degradation during vermicomposting of agricultural wastes. <i>Ecological Engineering</i> , 2015, 83, 90-95.	3.6	34
56	Stability and microbial community analysis during rotary drum composting of vegetable waste. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2014, 3, 1.	2.0	33
57	Comparative evaluation of anaerobic co-digestion of water hyacinth and cooked food waste with and without pretreatment. <i>Bioresource Technology Reports</i> , 2018, 4, 202-208.	2.7	31
58	Parameter optimisation for producing fired bricks using organic solid wastes. <i>Journal of Cleaner Production</i> , 2018, 205, 836-844.	9.3	31
59	Application of positive matrix factorization receptor model and elemental analysis for the assessment of sediment contamination and their source apportionment of Deepor Beel, Assam, India. <i>Ecological Indicators</i> , 2020, 114, 106291.	6.3	31
60	Feasibility of <i>Eudrilus eugeniae</i> and <i>Perionyx excavatus</i> in vermicomposting of water hyacinth. <i>Ecological Engineering</i> , 2016, 94, 127-135.	3.6	30
61	Vermicomposting and anaerobic digestion – viable alternative options for terrestrial weed management – A review. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018, 17, 70-76.	4.4	30
62	Drum composting of nitrogen-rich <i>Hydrilla Verticillata</i> with carbon-rich agents: Effects on composting physics and kinetics. <i>Journal of Environmental Management</i> , 2019, 231, 770-779.	7.8	30
63	Prerequisite – An electrohydrolysis pretreatment for anaerobic digestion of lignocellulose waste material. <i>Bioresource Technology</i> , 2017, 235, 274-280.	9.6	29
64	Enhancement of soil physico-chemical properties post compost application: Optimization using Response Surface Methodology comprehending Central Composite Design. <i>Journal of Environmental Management</i> , 2021, 289, 112461.	7.8	29
65	A practical proposal for utilisation of water hyacinth: Recycling in fired bricks. <i>Journal of Cleaner Production</i> , 2018, 190, 261-271.	9.3	28
66	Variation in the key indicators during composting of municipal solid organic wastes. <i>Sustainable Environment Research</i> , 2019, 29, .	4.2	28
67	Utilization of Biochar as an amendment during lignocellulose waste composting: Impact on composting physics and Realization (probability) amongst physical properties. <i>Chemical Engineering Research and Design</i> , 2019, 121, 229-238.	5.6	28
68	Composting physics: A degradation process-determining tool for industrial sludge. <i>Ecological Engineering</i> , 2018, 116, 14-20.	3.6	27
69	Development of irrigation water quality index incorporating information entropy. <i>Environment, Development and Sustainability</i> , 2020, 22, 3119-3132.	5.0	27
70	Kinetics and physics during composting of various organic wastes: Statistical approach to interpret compost application feasibility. <i>Journal of Cleaner Production</i> , 2020, 255, 120324.	9.3	27
71	Demonstrating an ideal compostable plastic using biodegradability kinetics of poly(lactic acid) (PLA) based green biocomposite films under aerobic composting conditions. <i>Environmental Challenges</i> , 2021, 3, 100030.	4.2	27
72	Phytotoxicity and cyto-genotoxicity evaluation of organic and inorganic pollutants containing petroleum refinery wastewater using plant bioassay. <i>Environmental Technology and Innovation</i> , 2021, 23, 101651.	6.1	27

#	ARTICLE	IF	CITATIONS
73	Bioavailability and leachability of heavy metals during water hyacinth composting. <i>Chemical Speciation and Bioavailability</i> , 2013, 25, 1-14.	2.0	26
74	Process optimization by combining in-vessel composting and vermicomposting of vegetable waste. <i>Bioresource Technology</i> , 2022, 346, 126357.	9.6	26
75	Study of physico-chemical and biochemical parameters during rotary drum composting of water hyacinth. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2014, 3, 1.	2.0	25
76	Effect of lime on speciation of heavy metals during composting of water hyacinth. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 93-102.	6.0	25
77	The preferential composting of water fern and a reduction of the mobility of potential toxic elements in a rotary drum reactor. <i>Chemical Engineering Research and Design</i> , 2016, 102, 485-494.	5.6	25
78	Evolution of chemical and biological characterization during agitated pile composting of flower waste. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2017, 6, 89-98.	2.0	25
79	Biochemical methane potential (BMP) test for <i>Ageratum conyzoides</i> to optimize ideal food to microorganism (F/M) ratio. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5135-5140.	6.7	25
80	Study of the limnology of wetlands through a one-dimensional model for assessing the eutrophication levels induced by various pollution sources. <i>Ecological Modelling</i> , 2020, 416, 108907.	2.5	25
81	Electrohydrolysis pretreatment methods to enhance the methane production from anaerobic digestion of rice straw using graphite electrode. <i>Renewable Energy</i> , 2019, 142, 1-10.	8.9	24
82	Carbon decomposition by inoculating <i>Phanerochaete chrysosporium</i> during drum composting of agricultural waste. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7851-7858.	5.3	23
83	Physical parameters evaluation during production of soil conditioner from aquatic waste: <i>Hydrilla verticillata</i> (L.f.) Royle. <i>Environmental Technology and Innovation</i> , 2018, 11, 64-73.	6.1	23
84	Estimation and allocation of solid waste to bin through geographical information systems. <i>Waste Management and Research</i> , 2005, 23, 479-484.	3.9	22
85	Genotoxicity evaluation of paper industry wastewater prior and post-treatment with laccase producing <i>Pseudomonas putida</i> MTCC 7525. <i>Journal of Cleaner Production</i> , 2022, 342, 130981.	9.3	22
86	Fabrication of Cellulose Nanocrystals from Agricultural Compost. <i>Compost Science and Utilization</i> , 2015, 23, 104-116.	1.2	21
87	Risk characterization and surface water quality assessment of Manas River, Assam (India) with an emphasis on the TOPSIS method of multi-objective decision making. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	21
88	An investigation on water quality variability and identification of ideal monitoring locations by using entropy based disorder indices. <i>Science of the Total Environment</i> , 2019, 647, 1444-1455.	8.0	21
89	Effects of Leachate during Vegetable Waste Composting using Rotary Drum Composter. <i>Environmental Engineering Research</i> , 2014, 19, 67-73.	2.5	21
90	Assessment of compost quality in agitated pile composting of water hyacinth collected from different sources. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2015, 4, 175-183.	2.0	20

#	ARTICLE	IF	CITATIONS
91	Anaerobic biodegradability test of water hyacinth after microbial pretreatment to optimise the ideal F/M ratio. <i>Fuel</i> , 2018, 217, 91-97.	6.4	20
92	Biodegradable kinetics and behavior of bio-based polyblends under simulated aerobic composting conditions. <i>Journal of Environmental Management</i> , 2020, 261, 110211.	7.8	20
93	Characterization of bacterial community structure during in-vessel composting of agricultural waste by 16S rRNA sequencing. <i>3 Biotech</i> , 2018, 8, 301.	2.2	19
94	Hydrochemical dynamics of water quality for irrigation use and introducing a new water quality index incorporating multivariate statistics. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	19
95	Stability Analysis of Dewatered Sludge of Pulp and Paper Mill During Vermicomposting. <i>Waste and Biomass Valorization</i> , 2014, 5, 19-26.	3.4	18
96	Electrohydrolysis pretreatment of water hyacinth for enhanced hydrolysis. <i>Bioresource Technology</i> , 2017, 238, 733-737.	9.6	18
97	Hydraulic performance, consolidation characteristics and shear strength analysis of bentonites in the presence of fly-ash, sewage sludge and paper-mill leachates for landfill application. <i>Journal of Environmental Management</i> , 2022, 302, 113977.	7.8	18
98	Assessment of surface water quality of Pagladia, Beki and Kolong rivers (Assam, India) using multivariate statistical techniques. <i>International Journal of River Basin Management</i> , 2020, 18, 511-520.	2.7	17
99	Review of existing heavy metal contamination indices and development of an entropy-based improved indexing approach. <i>Environment, Development and Sustainability</i> , 2020, 22, 7847-7864.	5.0	17
100	Science mapping approach to critical reviewing of published literature on water quality indexing. <i>Ecological Indicators</i> , 2021, 128, 107862.	6.3	17
101	Efficiency of Rotary Drum Composting for Stabilizing Vegetable Waste during Pre-Composting and Vermicomposting. <i>Environmental Processes</i> , 2016, 3, 829-841.	3.5	16
102	Isolation and identification of bacteria from rotary drum compost of water hyacinth. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2017, 6, 245-253.	2.0	16
103	Interplay of physical and chemical properties during in-vessel degradation of sewage sludge. <i>Waste Management</i> , 2019, 98, 58-68.	7.4	16
104	Statistical modelling and assessment of landfill leachate emission from fresh municipal solid waste: A laboratory-scale anaerobic landfill simulation reactor study. <i>Waste Management and Research</i> , 2020, 38, 1161-1175.	3.9	16
105	A comprehensive insight into ecological risk assessment and remediation of metal contaminated coal mine soil: Towards a cleaner and sustainable environment. <i>Journal of Cleaner Production</i> , 2021, 324, 129185.	9.3	16
106	Assessing mobility and chemical speciation of heavy metals during rotary drum composting of <i>Ageratum conyzoides</i> . <i>Environmental Technology and Innovation</i> , 2021, 24, 101871.	6.1	16
107	Feasibility of Composting Combinations of Sewage Sludge, Cattle Manure, and Sawdust in a Rotary Drum Reactor. <i>Environmental Engineering Research</i> , 2014, 19, 47-57.	2.5	16
108	Soil revitalization via waste utilization: Compost effects on soil organic properties, nutritional, sorption and physical properties. <i>Environmental Technology and Innovation</i> , 2020, 18, 100668.	6.1	15

#	ARTICLE	IF	CITATIONS
109	Sewage sludge composting in a rotary drum reactor: stability and kinetic analysis. International Journal of Recycling of Organic Waste in Agriculture, 2015, 4, 249-259.	2.0	14
110	Biosorption of Pb(II) by Bacillus badius AK strain originating from rotary drum compost of water hyacinth. Water Science and Technology, 2017, 75, 1071-1083.	2.5	14
111	Biosorption of lead using Bacillus badius AK strain isolated from compost of green waste (water hyacinth). Environmental Technology (United Kingdom), 2017, 38, 1812-1822.	2.2	14
112	Optimization of waste combinations during in-vessel composting of agricultural waste. Waste Management and Research, 2017, 35, 101-109.	3.9	14
113	Anaerobic co-digestion of defatted microalgae residue and rice straw as an emerging trend for waste utilization and sustainable biorefinery development. Biomass Conversion and Biorefinery, 2022, 12, 1193-1202.	4.6	14
114	Biodegradation of biopolymeric composites and blends under different environmental conditions: Approach towards end-of-life panacea for crop sustainability. Bioresource Technology Reports, 2021, 15, 100705.	2.7	14
115	Composting of Water Hyacinth using a Pilot Scale Rotary Drum Composter. Environmental Engineering Research, 2012, 17, 69-75.	2.5	14
116	Enhanced methane production and hydrocarbon removal from petroleum refinery sludge after Pseudomonas putida pretreatment and process scale-up. Bioresource Technology, 2022, 343, 126127.	9.6	14
117	Influences of natural zeolite on speciation of heavy metals during rotary drum composting of green waste. Chemical Speciation and Bioavailability, 2014, 26, 65-75.	2.0	12
118	Potential degradation of hazardous dye Congo red by nano-metallic particles synthesized from the automobile shredder residue. Nanotechnology for Environmental Engineering, 2017, 2, 1.	3.3	12
119	Composting physics: A science behind bio-degradation of lignocellulose aquatic waste amended with inoculum and bulking agent. Chemical Engineering Research and Design, 2018, 116, 424-432.	5.6	12
120	Exploring the functional significance of novel cellulolytic bacteria for the anaerobic digestion of rice straw. Renewable Energy, 2021, 169, 485-497.	8.9	12
121	Effect of Rotary Drum on the Speciation of Heavy Metals during Water Hyacinth Composting. Environmental Engineering Research, 2013, 18, 177-189.	2.5	12
122	Influence of carbide sludge on microbial diversity and degradation of lignocellulose during in-vessel composting of agricultural waste. Ecological Engineering, 2017, 101, 155-161.	3.6	11
123	Monitoring and assessment of Deepor Beel water quality using multivariate statistical tools. Water Practice and Technology, 2018, 13, 893-908.	2.0	11
124	Bentonites as a Copper Adsorbent: Equilibrium, pH, Agitation, Dose, and Kinetic Effect Studies. Journal of Hazardous, Toxic, and Radioactive Waste, 2020, 24, .	2.0	11
125	Adsorption and Hydraulic Conductivity Studies on Bentonite in Presence of Copper Solution. Journal of Hazardous, Toxic, and Radioactive Waste, 2021, 25, 06020007.	2.0	11
126	Microbial population, stability and maturity analysis of rotary drum composting of water hyacinth. Biologia (Poland), 2014, 69, 1303-1313.	1.5	10



#	ARTICLE	IF	CITATIONS
127	Reduction of bioavailability and leachability of heavy metals during agitated pile composting of <i>Salvinia natans</i> weed of Loktak lake. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2015, 4, 143-156.	2.0	10
128	Recalcitrant carbon for composting of fibrous aquatic waste: Degradation kinetics, spectroscopic study and effect on physico-chemical and nutritional properties. <i>Journal of Environmental Management</i> , 2019, 251, 109568.	7.8	10
129	Comparative study of different thermal pretreatment techniques for accelerated methane production from rice straw. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1145-1154.	4.6	10
130	Influence of real and synthetic municipal solid waste leachates on consolidation and shear strength behaviour of bentonites. <i>Environmental Science and Pollution Research</i> , 2021, 28, 30975-30985.	5.3	10
131	Discussion on the existing methodology of entropy-weights in water quality indexing and proposal for a modification of the expected conflicts. <i>Environmental Science and Pollution Research</i> , 2021, 28, 53983-54001.	5.3	10
132	Optimization of electrokinetic pretreatment for enhanced methane production and toxicity reduction from petroleum refinery sludge. <i>Journal of Environmental Management</i> , 2021, 298, 113469.	7.8	10
133	Factors affecting anaerobic digestion for biogas production: a review. , 2022, , 223-233.		10
134	Effects of natural zeolite on speciation of heavy metals during agitated pile composting of water hyacinth. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2014, 3, 1.	2.0	9
135	Effect of carbide sludge (lime) on bioavailability and leachability of heavy metals during rotary drum composting of water hyacinth. <i>Chemical Speciation and Bioavailability</i> , 2014, 26, 76-84.	2.0	9
136	Influence of various concentration of lead on consolidation parameters of bentonite. <i>International Journal of Geotechnical Engineering</i> , 2019, , 1-7.	2.0	8
137	Equilibrium, kinetic and hydraulic study of different Indian bentonites in presence of lead. <i>European Journal of Environmental and Civil Engineering</i> , 2020, , 1-20.	2.1	8
138	Application of Environmetrics tools for geochemistry, water quality assessment and apportionment of pollution sources in Deepor Beel, Assam, India. <i>Water Practice and Technology</i> , 2020, 15, 973-992.	2.0	8
139	An investigation of demolished floor and wall ceramic tile waste utilization in fired brick production. <i>Environmental Technology and Innovation</i> , 2022, 25, 102228.	6.1	8
140	Performance evaluation of a novel two-stage biodegradation technique through management of toxic lignocellulosic terrestrial weeds. <i>Waste Management</i> , 2022, 144, 191-202.	7.4	8
141	Effects of C/N ratio on mixed organic waste composting in a rotary drum composter. <i>International Journal of Environmental Engineering</i> , 2009, 1, 187.	0.1	7
142	Drum composting of municipal solid waste. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 299-306.	2.2	7
143	Effects of Aeration During Pile Composting of Water Hyacinth Operated at Agitated, Passive and Forced Aerated Condition. <i>Waste and Biomass Valorization</i> , 2018, 9, 1339-1347.	3.4	7
144	Evaluation of equilibrium, kinetic and hydraulic characteristics of Indian bentonites in presence of heavy metal for landfill application. <i>Journal of Cleaner Production</i> , 2021, 317, 128396.	9.3	7

#	ARTICLE	IF	CITATIONS
145	Feasibility of vermicomposting dewatered sludge from paper mills using <i>Perionyx excavatus</i> . <i>European Journal of Environmental Sciences</i> , 2013, 3, 17-26.	0.2	7
146	A comprehensive assessment of state-wise biogas potential and its utilization in India. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 12557-12579.	4.6	7
147	Understanding the dynamics of heavy metals in a freshwater ecosystem through their toxicity and bioavailability assay. <i>Environment, Development and Sustainability</i> , 2021, 23, 16381-16409.	5.0	6
148	Recent Trends and Advances in the Biodegradation of Conventional Plastics. <i>Materials Horizons</i> , 2020, , 389-404.	0.6	6
149	Surface water quality assessment of Amingaon (Assam, India) using multivariate statistical techniques. <i>Water Practice and Technology</i> , 2017, 12, 997-1008.	2.0	5
150	Screening of different thermal heating processes for increased methane production from lignocellulose waste material. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5115-5123.	4.6	5
151	Paper mill sludge (PMS) and degraded municipal solid waste (DMSW) blended fired bricks—a review. <i>MOJ Civil Engineering</i> , 2018, 4, 81-85.	0.3	5
152	Advanced Pretreatment Strategies for Bioenergy Production from Biomass and Biowaste. , 2018, , 1-19.		4
153	Thermal pre-treatment — A prerequisite for the reduction of hydrolysis stage during anaerobic digestion of <i>Ageratum conyzoides</i> . <i>Materials Science for Energy Technologies</i> , 2021, 4, 34-45.	1.8	4
154	Monitoring and risk assessment of heavy metals surficial sediments using the 5-step sequential extraction process. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 7519-7540.	3.3	4
155	Assessment of possible pollution risk using spatial distribution and temporal variation of heavy metals in river sediments. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	4
156	Advanced Pretreatment Strategies for Bioenergy Production from Biomass and Biowaste. , 2019, , 1507-1524.		4
157	Impact of Heavy Metals on Consolidation Properties of Bentonite. <i>Environmental Science and Engineering</i> , 2019, , 567-574.	0.2	4
158	Adsorption and Hydraulic Conductivity Studies on Bentonites in the Presence of Zinc. <i>Lecture Notes in Civil Engineering</i> , 2020, , 489-500.	0.4	4
159	Reduction of eco-toxicity risk of heavy metals in the rotary drum composting of water hyacinth: Waste lime application and mechanisms. <i>Environmental Engineering Research</i> , 2015, 20, 212-222.	2.5	4
160	Interrelationships among critical success factors for the planning of municipal solid waste management PPP projects in India using structural equation modelling. <i>Waste Management and Research</i> , 2022, 40, 859-869.	3.9	4
161	Use of petroleum refinery sludge for the production of biogas as an alternative energy source: a review. , 2022, , 277-297.		4
162	Bio-conversion of organic waste using composting technologies - a review. <i>International Journal of Environmental Technology and Management</i> , 2014, 17, 483.	0.2	3

#	ARTICLE	IF	CITATIONS
163	Reduction of bioavailability of heavy metals during vermicomposting of phumdi biomass of Loktak Lake (India) using <i>Eisenia fetida</i> . Chemical Speciation and Bioavailability, 2014, 26, 158-166.	2.0	3
164	Effects of Natural Zeolites on Bioavailability and Leachability of Heavy Metals in the Composting Process of Biodegradable Wastes. , 0, , .		3
165	Anaerobic biodegradability test for Lantana camara to optimize the appropriate food to microorganism (F/M) ratio. Environmental Technology (United Kingdom), 2020, 41, 3191-3198.	2.2	3
166	Effect of Total Solid Content of Lignocellulose Pulp and Paper Mill Sludge on Methane Production and Modeling. Journal of Environmental Engineering, ASCE, 2020, 146, 04019121.	1.4	3
167	Evaluating and modelling of plug flow reactor digesting lignocellulosic corn silage. Fuel, 2021, 287, 119498.	6.4	3
168	Efficiency of electrohydrolysis pretreatment on terrestrial weed ( <i>Parthenium hysterophorus</i> ) to cut down the hydrolysis stage during the anaerobic digestion process and continuous reactor study. Energy Reports, 2021, 7, 3547-3555.	5.1	3
169	Impact of real and simulated municipal solid waste leachates on the hydraulic and swelling behaviour of bentonites for landfill application. Environmental Monitoring and Assessment, 2021, 193, 701.	2.7	3
170	Effect of Lead, Copper, and Zinc on Mechanical Properties of Compacted Bentonites. Journal of Hazardous, Toxic, and Radioactive Waste, 2022, 26, .	2.0	3
171	Insights into the bioconversion of <i>Ageratum conyzoides</i> into a nutrient-rich compost and its toxicity assessment: nutritional and quality assessment through instrumental analysis. Biomass Conversion and Biorefinery, 2024, 14, 3879-3895.	4.6	3
172	Performance assessment of in-vessel composter through heavy metal immobilization and humification of <i>Parthenium hysterophorus</i> . Bioresource Technology, 2022, 360, 127626.	9.6	3
173	Surface water quality and health risk assessment of Kameng river (Assam, India). Water Practice and Technology, 2020, 15, 1190-1201.	2.0	2
174	Biochemical methane potential trial of terrestrial weeds: Evolution of mono digestion and co-digestion on biogas production. Materials Science for Energy Technologies, 2020, 3, 748-755.	1.8	2
175	Prerequisite of electrohydrolysis pretreatment on lignocellulose terrestrial weed ( <i>Ageratum</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Energy Technologies, 2020, 3, 896-904.	1.8	2
176	Water quality evaluation and apportionment of pollution sources: a case study of the Baralia and Puthimari River (India). Water Practice and Technology, 2021, 16, 692-706.	2.0	2
177	Effect and Management of Various Terrestrial Weeds”Review. Lecture Notes in Civil Engineering, 2020, , 231-238.	0.4	2
178	Influence of lead and copper on behavioural changes of compacted bentonite. Japanese Geotechnical Society Special Publication, 2021, 9, 31-36.	0.2	2
179	Composting and vermicomposting: Process optimization for the management of organic waste. , 2022, , 33-43.		2
180	Biodegradation of an intrusive weed <i>Parthenium hysterophorus</i> through in-vessel composting technique: toxicity assessment and spectroscopic study. Environmental Science and Pollution Research, 0, , .	5.3	2

#	ARTICLE	IF	CITATIONS
181	Source apportionment for spatial variation of surface water quality using chemometric techniques. Environmental Forensics, 0, , 1-11.	2.6	1
182	Seasonal and Spatial Variation of DO and BOD for Assessment of the Water Quality of Brahmaputra River. Lecture Notes in Civil Engineering, 2020, , 473-483.	0.4	1
183	Integrated terrestrial weed management and generation of valuable products in a circular bioeconomy. , 2022, , 41-64.		1
184	Vermicomposting of dewatered sludge from pulp and paper mill. International Journal of Environment and Waste Management, 2015, 15, 24.	0.3	0
185	Biochemical Methane Potential and Kinetics of Parthenium hysterophorous with Different Food to Microorganisms (F/M) Ratios. , 2021, , 283-292.		0
186	Impact of Precipitation on Biodegradation of Fresh Municipal Solid Waste in Anaerobic Simulated Reactor. , 2021, , 303-316.		0
187	Removal of Lead and Copper by Using Bentonite as an Adsorbent. , 2021, , 293-301.		0
188	Solid Waste. , 2017, , 337-368.		0
189	Fantastic Floating Weeds and How to Use Them. Springer Transactions in Civil and Environmental Engineering, 2021, , 367-381.	0.4	0
190	Relevance of Physicochemical and Nutritional Variables During Rotary Drum Composting of Water Hyacinth with Biochar Amendment. Lecture Notes in Civil Engineering, 2020, , 323-333.	0.4	0