Kaliappan Sudalyandi

List of Publications by Year
in descending order

54	2,498	147801 31	197818 49
papers	citations	h-index	g-index

54	54	54	1659
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low temperature thermo-chemical pretreatment of dairy waste activated sludge for anaerobic digestion process. Bioresource Technology, 2012, 103, 415-424.	9.6	175
2	Effect of enzyme secreting bacterial pretreatment on enhancement of aerobic digestion potential of waste activated sludge interceded through EDTA. Bioresource Technology, 2013, 150, 210-219.	9.6	141
3	Effect of citric acid induced deflocculation on the ultrasonic pretreatment efficiency of dairy waste activated sludge. Ultrasonics Sonochemistry, 2015, 22, 333-340.	8.2	105
4	Impacts of microwave pretreatments on the semi-continuous anaerobic digestion of dairy waste activated sludge. Waste Management, 2013, 33, 1119-1127.	7.4	100
5	Combined treatment of alkaline and disperser for improving solubilization and anaerobic biodegradability of dairy waste activated sludge. Bioresource Technology, 2012, 126, 107-116.	9.6	91
6	Profitable ultrasonic assisted microwave disintegration of sludge biomass: Modelling of biomethanation and energy parameter analysis. Bioresource Technology, 2018, 254, 203-213.	9.6	87
7	Impact of poor solid waste management on ground water. Environmental Monitoring and Assessment, 2008, 143, 227-238.	2.7	84
8	Treatment of dairy wastewater using anaerobic and solar photocatalytic methods. Solar Energy, 2008, 82, 812-819.	6.1	84
9	Influence of deflocculation on microwave disintegration and anaerobic biodegradability of waste activated sludge. Bioresource Technology, 2015, 185, 194-201.	9.6	84
10	Enhancing the functional and economical efficiency of a novel combined thermo chemical disperser disintegration of waste activated sludge for biogas production. Bioresource Technology, 2014, 173, 32-41.	9.6	82
11	Effect of sonically induced deflocculation on the efficiency of ozone mediated partial sludge disintegration for improved production of biogas. Ultrasonics Sonochemistry, 2015, 26, 241-248.	8.2	75
12	Enhancing the anaerobic digestion potential of dairy waste activated sludge by two step sono-alkalization pretreatment. Ultrasonics Sonochemistry, 2014, 21, 1065-1074.	8.2	74
13	Accelerating the sludge disintegration potential of a novel bacterial strain Planococcus jake 01 by CaCl2 induced deflocculation. Bioresource Technology, 2015, 175, 396-405.	9.6	66
14	Synergetic pretreatment of algal biomass through H2O2 induced microwave in acidic condition for biohydrogen production. Fuel, 2019, 253, 833-839.	6.4	64
15	Enhancement of sludge anaerobic biodegradability by combined microwave-H2O2 pretreatment in acidic conditions. Environmental Science and Pollution Research, 2016, 23, 13467-13479.	5.3	61
16	Fenton mediated ultrasonic disintegration of sludge biomass: Biodegradability studies, energetic assessment, and its economic viability. Bioresource Technology, 2016, 221, 1-8.	9.6	61
17	Effect of deflocculation on the efficiency of disperser induced dairy waste activated sludge disintegration and treatment cost. Bioresource Technology, 2014, 167, 151-158.	9.6	60
18	Surfactant assisted disperser pretreatment on the liquefaction of Ulva reticulata and evaluation of biodegradability for energy efficient biofuel production through nonlinear regression modelling. Bioresource Technology, 2018, 255, 116-122.	9.6	60

#	Article	IF	Citations
19	Improving the amenability of municipal waste activated sludge for biological pretreatment by phase-separated sludge disintegration method. Bioresource Technology, 2014, 169, 700-706.	9.6	58
20	Treatment of domestic wastewater using upflow anaerobic sludge blanket reactor. International Journal of Environmental Science and Technology, 2007, 4, 363-370.	3.5	51
21	Effect of NaCl induced floc disruption on biological disintegration of sludge for enhanced biogas production. Bioresource Technology, 2015, 192, 807-811.	9.6	50
22	Effects of side-stream, low temperature phosphorus recovery on the performance of anaerobic/anoxic/oxic systems integrated with sludge pretreatment. Bioresource Technology, 2013, 140, 376-384.	9.6	49
23	Comparison of AMC-dependent CN-conversion Formulae. Water Resources Management, 2008, 22, 1409-1420.	3.9	46
24	Biological pretreatment of non-flocculated sludge augments the biogas production in the anaerobic digestion of the pretreated waste activated sludge. Environmental Technology (United Kingdom), 2013, 34, 2113-2123.	2.2	46
25	Achieving profitable biological sludge disintegration through phase separation and predicting its anaerobic biodegradability by non linear regression model. Chemical Engineering Journal, 2015, 279, 478-487.	12.7	45
26	Biological disintegration of microalgae for biomethane recovery-prediction of biodegradability and computation of energy balance. Bioresource Technology, 2017, 244, 1367-1375.	9.6	44
27	Enhancing aerobic digestion potential of municipal waste-activated sludge through removal of extracellular polymeric substance. Environmental Science and Pollution Research, 2014, 21, 1112-1123.	5.3	41
28	Enhancement of anaerobic degradation of sludge biomass through surfactant-assisted bacterial hydrolysis. Chemical Engineering Research and Design, 2016, 99, 207-215.	5.6	39
29	Effect of extracellular polymeric substances on sludge reduction potential of Bacillus licheniformis. International Journal of Environmental Science and Technology, 2013, 10, 85-92.	3.5	38
30	Bioelectricity generation from coconut husk retting wastewater in fed batch operating microbial fuel cell by phenol degrading microorganism. Biomass and Bioenergy, 2014, 69, 249-254.	5.7	38
31	Effect of cation binding agents on sludge solubilization potential of bacteria. Biotechnology and Bioprocess Engineering, 2012, 17, 346-352.	2.6	36
32	High rate anaerobic treatment of Sago wastewater using HUASB with PUF as carrier. International Journal of Environmental Science and Technology, 2006, 3, 69-77.	3.5	30
33	Two-stage anaerobic treatment of dairy wastewater using HUASB with PUF and PVC carrier. Biotechnology and Bioprocess Engineering, 2007, 12, 257-264.	2.6	30
34	Combinative treatment of phenol-rich retting-pond wastewater by a hybrid upflow anaerobic sludge blanket reactor and solar photofenton process. Journal of Environmental Management, 2018, 206, 999-1006.	7.8	27
35	A novel method of sludge pretreatment using the combination of alkalis. Journal of Environmental Biology, 2012, 33, 249-53.	0.5	27
36	Effect of sludge pretreatment on the performance of anaerobic/ anoxic/ oxic membrane bioreactor treating domestic wastewater. International Journal of Environmental Science and Technology, 2011, 8, 281-290.	3.5	26

#	Article	IF	Citations
37	Immobilized and MgSO 4 induced cost effective bacterial disintegration of waste activated sludge for effective anaerobic digestion. Chemosphere, 2017, 175, 66-75.	8.2	24
38	Anaerobic co-digestion of chemical- and ozone-pretreated sludge in hybrid upflow anaerobic sludge blanket reactor. Desalination and Water Treatment, 2015, 54, 3269-3278.	1.0	23
39	Synergistic impact of sonic-tenside on biomass disintegration potential: Acidogenic and methane potential studies, kinetics and cost analytics. Bioresource Technology, 2018, 253, 256-261.	9.6	23
40	Influence of the thermochemical sludge pretreatment on the nitrification of A/O reactor with the removal of phosphorus by simultaneous precipitation. Biotechnology and Bioprocess Engineering, 2013, 18, 313-320.	2.6	20
41	Effect of low temperature thermochemical pretreatment on sludge reduction potential of membrane bioreactor treating primary treated dairy wastewater. Water Quality Research Journal of Canada, 2011, 46, 312-320.	2.7	17
42	Characterization of rust phases formed on low carbon steel exposed to natural marine environment of Chennai harbour â€“ South India. Materials and Corrosion - Werkstoffe Und Korrosion, 2007, 58, 873-880.	1.5	16
43	Improvement of source voltage and load current harmonic mitigation using UPQC: A survey. , 2013, , .		15
44	Effect of extra polymeric substance removal on sludge reduction potential of <scp>B</scp>acillus licheniformis at its optimised <scp>pH</scp> condition. Water and Environment Journal, 2014, 28, 95-103.	2.2	15
45	Effect of alum on nitrification during simultaneous phosphorous removal in anoxic/oxic reactor. Biotechnology and Bioprocess Engineering, 2009, 14, 543-548.	2.6	14
46	Enhancing biomethanation from dairy waste activated biomass using a novel EGTA mediated microwave disintegration. Journal of Environmental Management, 2018, 223, 644-651.	7.8	10
47	A study on the performance of a pilot scale A2/0-MBR system in treating domestic wastewater. Journal of Environmental Biology, 2009, 30, 959-63.	0.5	10
48	Biosorption of lead by Kluyveromyces marxianus immobilized in alginate beads. Journal of Environmental Biology, 2013, 34, 831-5.	0.5	9
49	SEPIC-Converter Based BLDC-Motor-Drive with Power-Factor-Correction and Minimization in Torque Ripple. , 2021, , .		8
50	Combined Treatment of Domestic Wastewater using Anaerobic and Solar Photocatalytic Treatment. Water Quality Research Journal of Canada, 2009, 44, 393-398.	2.7	6
51	Evaluation of operational parameters for biodegration of bacterially disintegrated sludge. Desalination and Water Treatment, 2016, 57, 25018-25027.	1.0	5
52	Combinative treatment (thermal-anaerobic) of EBPR sludge for the enhanced release and recovery of phosphorous. International Journal of Environmental Engineering, 2012, 4, 92.	0.1	4
53	Embedded based vegetable cleaning process using solar PV cell. , 2017, , .		2
54	Development of linear regression model to predict ground elevation from satellite elevationâ€“statistical approach. AIP Conference Proceedings, 2019, , .	0.4	2