

Kaliappan Sudalyandi

List of Publications by Year in descending order

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54
papers

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147801

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docs citations

54
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	SEPIC-Converter Based BLDC-Motor-Drive with Power-Factor-Correction and Minimization in Torque Ripple. , 2021, , .		8
2	Development of linear regression model to predict ground elevation from satellite elevationâ€“statistical approach. AIP Conference Proceedings, 2019, , .	0.4	2
3	Synergetic pretreatment of algal biomass through H2O2 induced microwave in acidic condition for biohydrogen production. Fuel, 2019, 253, 833-839.	6.4	64
4	Profitable ultrasonic assisted microwave disintegration of sludge biomass: Modelling of biomethanation and energy parameter analysis. Bioresource Technology, 2018, 254, 203-213.	9.6	87
5	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
6	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
7	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
8	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
9	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
10	Biological disintegration of microalgae for biomethane recovery-prediction of biodegradability and computation of energy balance. Bioresource Technology, 2017, 244, 1367-1375.	9.6	44
11	Embedded based vegetable cleaning process using solar PV cell. , 2017, , .		2
12	Evaluation of operational parameters for biodegration of bacterially disintegrated sludge. Desalination and Water Treatment, 2016, 57, 25018-25027.	1.0	5
13	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
14	Fenton mediated ultrasonic disintegration of sludge biomass: Biodegradability studies, energetic assessment, and its economic viability. Bioresource Technology, 2016, 221, 1-8.	9.6	61
15	Enhancement of anaerobic degradation of sludge biomass through surfactant-assisted bacterial hydrolysis. Chemical Engineering Research and Design, 2016, 99, 207-215.	5.6	39
16	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
17	Effect of NaCl induced floc disruption on biological disintegration of sludge for enhanced biogas production. Bioresource Technology, 2015, 192, 807-811.	9.6	50
18	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

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19	Influence of deflocculation on microwave disintegration and anaerobic biodegradability of waste activated sludge. <i>Bioresource Technology</i> , 2015, 185, 194-201.	9.6	84
20	Effect of sonically induced deflocculation on the efficiency of ozone mediated partial sludge disintegration for improved production of biogas. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 241-248.	8.2	75
21	Accelerating the sludge disintegration potential of a novel bacterial strain <i>Planococcus jake 01</i> by CaCl ₂ induced deflocculation. <i>Bioresource Technology</i> , 2015, 175, 396-405.	9.6	66
22	Effect of citric acid induced deflocculation on the ultrasonic pretreatment efficiency of dairy waste activated sludge. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 333-340.	8.2	105
23	Effect of extra polymeric substance removal on sludge reduction potential of <i>Bacillus licheniformis</i> at its optimised pH condition. <i>Water and Environment Journal</i> , 2014, 28, 95-103.	2.2	15
24	Improving the amenability of municipal waste activated sludge for biological pretreatment by phase-separated sludge disintegration method. <i>Bioresource Technology</i> , 2014, 169, 700-706.	9.6	58
25	Effect of deflocculation on the efficiency of disperser induced dairy waste activated sludge disintegration and treatment cost. <i>Bioresource Technology</i> , 2014, 167, 151-158.	9.6	60
26	Enhancing aerobic digestion potential of municipal waste-activated sludge through removal of extracellular polymeric substance. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1112-1123.	5.3	41
27	Enhancing the functional and economical efficiency of a novel combined thermo chemical disperser disintegration of waste activated sludge for biogas production. <i>Bioresource Technology</i> , 2014, 173, 32-41.	9.6	82
28	Bioelectricity generation from coconut husk retting wastewater in fed batch operating microbial fuel cell by phenol degrading microorganism. <i>Biomass and Bioenergy</i> , 2014, 69, 249-254.	5.7	38
29	Enhancing the anaerobic digestion potential of dairy waste activated sludge by two step sono-alkalization pretreatment. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1065-1074.	8.2	74
30	Influence of the thermochemical sludge pretreatment on the nitrification of A/O reactor with the removal of phosphorus by simultaneous precipitation. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 313-320.	2.6	20
31	Effect of extracellular polymeric substances on sludge reduction potential of <i>Bacillus licheniformis</i> . <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 85-92.	3.5	38
32	Effects of side-stream, low temperature phosphorus recovery on the performance of anaerobic/anoxic/oxic systems integrated with sludge pretreatment. <i>Bioresource Technology</i> , 2013, 140, 376-384.	9.6	49
33	Effect of enzyme secreting bacterial pretreatment on enhancement of aerobic digestion potential of waste activated sludge interceded through EDTA. <i>Bioresource Technology</i> , 2013, 150, 210-219.	9.6	141
34	Improvement of source voltage and load current harmonic mitigation using UPQC: A survey. , , .		15
35	Impacts of microwave pretreatments on the semi-continuous anaerobic digestion of dairy waste activated sludge. <i>Waste Management</i> , 2013, 33, 1119-1127.	7.4	100
36	Biological pretreatment of non-flocculated sludge augments the biogas production in the anaerobic digestion of the pretreated waste activated sludge. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2113-2123.	2.2	46

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37	Biosorption of lead by <i>Kluyveromyces marxianus</i> immobilized in alginate beads. <i>Journal of Environmental Biology</i> , 2013, 34, 831-5.	0.5	9
38	Combinative treatment (thermal-anaerobic) of EBPR sludge for the enhanced release and recovery of phosphorous. <i>International Journal of Environmental Engineering</i> , 2012, 4, 92.	0.1	4
39	Combined treatment of alkaline and disperser for improving solubilization and anaerobic biodegradability of dairy waste activated sludge. <i>Bioresource Technology</i> , 2012, 126, 107-116.	9.6	91
40	Effect of cation binding agents on sludge solubilization potential of bacteria. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 346-352.	2.6	36
41	Low temperature thermo-chemical pretreatment of dairy waste activated sludge for anaerobic digestion process. <i>Bioresource Technology</i> , 2012, 103, 415-424.	9.6	175
42	A novel method of sludge pretreatment using the combination of alkalis. <i>Journal of Environmental Biology</i> , 2012, 33, 249-53.	0.5	27
43	Effect of sludge pretreatment on the performance of anaerobic/ anoxic/ oxic membrane bioreactor treating domestic wastewater. <i>International Journal of Environmental Science and Technology</i> , 2011, 8, 281-290.	3.5	26
44	Effect of low temperature thermochemical pretreatment on sludge reduction potential of membrane bioreactor treating primary treated dairy wastewater. <i>Water Quality Research Journal of Canada</i> , 2011, 46, 312-320.	2.7	17
45	Combined Treatment of Domestic Wastewater using Anaerobic and Solar Photocatalytic Treatment. <i>Water Quality Research Journal of Canada</i> , 2009, 44, 393-398.	2.7	6
46	Effect of alum on nitrification during simultaneous phosphorous removal in anoxic/oxic reactor. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 543-548.	2.6	14
47	A study on the performance of a pilot scale A2/O-MBR system in treating domestic wastewater. <i>Journal of Environmental Biology</i> , 2009, 30, 959-63.	0.5	10
48	Comparison of AMC-dependent CN-conversion Formulae. <i>Water Resources Management</i> , 2008, 22, 1409-1420.	3.9	46
49	Impact of poor solid waste management on ground water. <i>Environmental Monitoring and Assessment</i> , 2008, 143, 227-238.	2.7	84
50	Treatment of dairy wastewater using anaerobic and solar photocatalytic methods. <i>Solar Energy</i> , 2008, 82, 812-819.	6.1	84
51	Treatment of domestic wastewater using upflow anaerobic sludge blanket reactor. <i>International Journal of Environmental Science and Technology</i> , 2007, 4, 363-370.	3.5	51
52	Characterization of rust phases formed on low carbon steel exposed to natural marine environment of Chennai harbour " South India. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2007, 58, 873-880.	1.5	16
53	Two-stage anaerobic treatment of dairy wastewater using HUASB with PUF and PVC carrier. <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 257-264.	2.6	30
54	High rate anaerobic treatment of Sago wastewater using HUASB with PUF as carrier. <i>International Journal of Environmental Science and Technology</i> , 2006, 3, 69-77.	3.5	30