

Sumate Chaiprapat

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,558
citations

279487

23
h-index

329751

37
g-index

60
all docs

60
docs citations

60
times ranked

1845
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of hydrogen sulfide generated during anaerobic treatment of sulfate-laden wastewater using biochar: Evaluation of efficiency and mechanisms. <i>Bioresource Technology</i> , 2017, 234, 115-121.	4.8	126
2	Anaerobic digestion of hydrothermally-pretreated lignocellulosic biomass: Influence of pretreatment temperatures, inhibitors and soluble organics on methane yield. <i>Bioresource Technology</i> , 2019, 284, 128-138.	4.8	113
3	Removal of hydrogen sulfide by complete aerobic oxidation in acidic biofiltration. <i>Process Biochemistry</i> , 2011, 46, 344-352.	1.8	98
4	Effects of inoculum to substrate ratio, substrate mix ratio and inoculum source on batch co-digestion of grass and pig manure. <i>Bioresource Technology</i> , 2013, 146, 101-108.	4.8	93
5	Current technologies for recovery of metals from industrial wastes: An overview. <i>Environmental Technology and Innovation</i> , 2021, 22, 101525.	3.0	91
6	Effects of pH adjustment by parawood ash and effluent recycle ratio on the performance of anaerobic baffled reactors treating high sulfate wastewater. <i>Bioresource Technology</i> , 2008, 99, 8987-8994.	4.8	81
7	Biofertilizers from <i>Rhodopseudomonas palustris</i> strains to enhance rice yields and reduce methane emissions. <i>Applied Soil Ecology</i> , 2016, 100, 154-161.	2.1	81
8	Oxidation of hydrogen sulfide in biogas using dissolved oxygen in the extreme acidic biofiltration operation. <i>Bioresource Technology</i> , 2013, 131, 492-499.	4.8	53
9	Enhancing the fuel properties of rubberwood biomass by moving bed torrefaction process for further applications. <i>Renewable Energy</i> , 2021, 170, 703-713.	4.3	46
10	Enhancing digestion efficiency of POME in anaerobic sequencing batch reactor with ozonation pretreatment and cycle time reduction. <i>Bioresource Technology</i> , 2011, 102, 4061-4068.	4.8	44
11	Use of <i>Rhodopseudomonas palustris</i> P1 stimulated growth by fermented pineapple extract to treat latex rubber sheet wastewater to obtain single cell protein. <i>Annals of Microbiology</i> , 2014, 64, 1021-1032.	1.1	43
12	Bio-desulfurization of biogas using acidic biotrickling filter with dissolved oxygen in step feed recirculation. <i>Bioresource Technology</i> , 2015, 179, 429-435.	4.8	41
13	ROLE OF INTERNAL NUTRIENT STORAGE IN DUCKWEED GROWTH FOR SWINE WASTEWATER TREATMENT. <i>Transactions of the American Society of Agricultural Engineers</i> , 2005, 48, 2247-2258.	0.9	38
14	Effects of size and thermophilic pre-hydrolysis of banana peel during anaerobic digestion, and biomethanation potential of key tropical fruit wastes. <i>Waste Management</i> , 2017, 68, 128-138.	3.7	35
15	Valorization of palm biomass wastes for biodiesel feedstock and clean solid biofuel through non-sterile repeated solid-state fermentation. <i>Bioresource Technology</i> , 2020, 298, 122551.	4.8	32
16	Biosolids and Sludge Management. <i>Water Environment Research</i> , 1999, 71, 692-714.	1.3	31
17	Influences of liquid, solid, and gas media circulation in anaerobic membrane bioreactor (AnMBR) as a post treatment alternative of aerobic system in seafood industry. <i>Journal of Membrane Science</i> , 2016, 509, 116-124.	4.1	28
18	Carbon sequestration potential via energy harvesting from agricultural biomass residues in Mekong River basin, Southeast Asia. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 1051-1062.	8.2	28

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19	Enhanced enzymatic hydrolysis and methane production from rubber wood waste using steam explosion. <i>Journal of Environmental Management</i> , 2019, 235, 231-239.	3.8	28
20	Effects of wastewater recycling from natural rubber smoked sheet production on economic crops in southern Thailand. <i>Resources, Conservation and Recycling</i> , 2007, 51, 577-590.	5.3	27
21	Low temperature hydrothermal treatment of palm fiber fuel for simultaneous potassium removal, enhanced oil recovery and biogas production. <i>Fuel</i> , 2018, 234, 1055-1063.	3.4	27
22	Life cycle analysis of retrofitting with high energy efficiency air-conditioner and fluorescent lamp in existing buildings. <i>Energy Policy</i> , 2009, 37, 318-325.	4.2	25
23	Evaluating sulfuric acid reduction, substitution, and recovery to improve environmental performance and biogas productivity in rubber latex industry. <i>Chemical Engineering Research and Design</i> , 2015, 94, 420-429.	2.7	24
24	Whole sugar 2,3-butanediol fermentation for oil palm empty fruit bunches biorefinery by a newly isolated <i>Klebsiella pneumoniae</i> PM2. <i>Bioresource Technology</i> , 2021, 333, 125206.	4.8	24
25	Co-fermentation of oil palm lignocellulosic residue with pig manure in anaerobic leach bed reactor for fatty acid production. <i>Energy Conversion and Management</i> , 2014, 84, 354-362.	4.4	18
26	Staged organosolv pretreatment to increase net energy and reactive lignin yield in whole oil palm tree biorefinery. <i>Bioresource Technology</i> , 2021, 326, 124766.	4.8	18
27	Integrated process for the production of fermentable sugar and methane from rubber wood. <i>Bioresource Technology</i> , 2020, 302, 122785.	4.8	17
28	Bioaugmentation of latex rubber sheet wastewater treatment with stimulated indigenous purple nonsulfur bacteria by fermented pineapple extract. <i>Electronic Journal of Biotechnology</i> , 2014, 17, 174-182.	1.2	16
29	Anaerobic Digestion of Napier Grass (<i>Pennisetum purpureum</i>) in Two-Phase Dry Digestion System Versus Wet Digestion System. <i>Bioenergy Research</i> , 2020, 13, 853-865.	2.2	16
30	Sulfidogenesis in Pretreatment of High-Sulfate Acidic Wastewater Using Anaerobic Sequencing Batch Reactor and Upflow Anaerobic Sludge Blanket Reactor. <i>Environmental Engineering Science</i> , 2011, 28, 597-604.	0.8	14
31	Effect of pH, OLR, and HRT on performance of acidogenic and methanogenic reactors for treatment of biodiesel wastewater. <i>Desalination and Water Treatment</i> , 2015, 54, 3317-3327.	1.0	14
32	Sustainability index accounting food and carbon benefits on circular 2,3-butanediol biorefinery with oil palm empty fruit bunches. <i>Applied Energy</i> , 2021, 303, 117667.	5.1	14
33	Modeling Nitrogen Transport in Duckweed Pond for Secondary Treatment of Swine Wastewater. <i>Journal of Environmental Engineering, ASCE</i> , 2003, 129, 731-739.	0.7	12
34	Solid state co-fermentation as pretreatment of lignocellulosic palm empty fruit bunch for organic acid recovery and fiber property improvement. <i>International Biodeterioration and Biodegradation</i> , 2015, 100, 172-180.	1.9	12
35	Use of wood vinegar to enhance 5-aminolevulinic acid production by selected <i>Rhodospseudomonas palustris</i> in rubber sheet wastewater for agricultural use. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 642-650.	1.8	12
36	The potential use of purple nonsulfur bacteria to simultaneously treat chicken slaughterhouse wastewater and obtain valuable plant growth promoting effluent and their biomass for agricultural application. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 28, 101721.	1.5	12

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37	Biodegradation of phenolic compounds present in palm oil mill effluent as single and mixed substrates by <i>Trametes hirsuta</i> AK04. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 989-1002.	0.9	11
38	Intensifying Clean Energy Production Through Cultivating Mixotrophic Microalgae from Digestates of Biogas Systems: Effects of Light Intensity, Medium Dilution, and Cultivating Time. Bioenergy Research, 2017, 10, 103-114.	2.2	9
39	Comparing Low-Temperature Hydrothermal Pretreatments through Convective Heating versus Microwave Heating for Napier Grass Digestion. Processes, 2020, 8, 1221.	1.3	9
40	Conversion of rubber wood waste to methane by ethanol organosolv pretreatment. Biomass Conversion and Biorefinery, 2021, 11, 999-1011.	2.9	9
41	Single-/triple-stage biotrickling filter treating a H ₂ S-rich biogas stream: Statistical analysis of the effect of empty bed retention time and liquid recirculation velocity. Journal of the Air and Waste Management Association, 2019, 69, 1429-1437.	0.9	8
42	Efficacy of anaerobic membrane bioreactor under intermittent liquid circulation and its potential energy saving against a conventional activated sludge for industrial wastewater treatment. Energy, 2022, 244, 122556.	4.5	8
43	Integrative Effects of Sonication and Particle Size on Biomethanation of Tropical Grass Pennisetum purpureum Using Superior Diverse Inocula Cultures. Energies, 2019, 12, 4226.	1.6	7
44	Biochemical Methane Potential Assay Using Single Versus Dual Sludge Inocula and Gap in Energy Recovery from Napier Grass Digestion. Bioenergy Research, 2020, 13, 1321-1329.	2.2	7
45	Development of an O-ring from NR/EPDM filled silica/CB hybrid filler for use in a solid oxide fuel cell testing system. Polymer Testing, 2020, 88, 106568.	2.3	7
46	Oil Solubilization Using Surfactant for Biohydrogen Production. Advanced Materials Research, 0, 931-932, 183-187.	0.3	6
47	Activation of immobilized Clostridium saccharoperbutylacetonicum N1-4 for butanol production under different oscillatory frequencies and chemical buffers. International Biodeterioration and Biodegradation, 2016, 110, 129-135.	1.9	6
48	Comparative assessment between hydrothermal treatment and anaerobic digestion as fuel pretreatment for industrial conversion of oil palm empty fruit bunch to methane and electricity-A preparation study to full scale. Fuel, 2022, 310, 122479.	3.4	6
49	Fouling characteristics and cleaning approach of ultrafiltration membrane during xylose reductase separation. Bioprocess and Biosystems Engineering, 2022, 45, 1125-1136.	1.7	6
50	Influences of specific surfactant structures on biohydrogen production from oily wastewater in batch and continuous anaerobic dark fermentation. Bioresource Technology, 2022, 360, 127617.	4.8	6
51	Biogas Production From Industrial Effluents. , 2019, , 779-816.		5
52	Conversion of biogas from anaerobic digestion to single cell protein and bio-methanol: mechanism, microorganisms and key factors - A review. Environmental Engineering Research, 2022, 27, 210109-0.	1.5	5
53	Upgrading industrial effluent for agricultural reuse: effects of digestate concentration and wood vinegar dosage on biosynthesis of plant growth promotor. Environmental Science and Pollution Research, 2020, 27, 14589-14600.	2.7	3
54	Practical approaches for retrofitting plug flow digester and process control to maximize hydrolysis and methane yield from piggery waste. Journal of Environmental Chemical Engineering, 2021, 9, 105620.	3.3	3

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55	Dephenolization of palm oil mill effluent by oil palm fiber-immobilized <i>Trametes hirsuta</i> AK04 in temporary immersion bioreactor for the enhancement of biogas production. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	2.7	3
56	Relationship of Substrate and Inoculum on Biochemical Methane Potential for Grass and Pig Manure Co-Digestion. <i>Advanced Materials Research</i> , 0, 512-515, 444-448.	0.3	1
57	Biomethanation efficiency of para-grass in piggery wastewater in single stage and temperature phased anaerobic systems. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 15, 254-263.	1.5	1
58	Cultivation of <i>Chlorella</i> Using Industrial Effluents for Lipid Production. <i>Advanced Materials Research</i> , 2014, 931-932, 1111-1116.	0.3	0
59	Potential Conversion of Plastic Waste in Old Landfill to Fuel. <i>Advanced Materials Research</i> , 2014, 931-932, 844-848.	0.3	0
60	Influence of Temperature and Oxidation-Reduction Potential on Hydrolysis of Swine Manure Wastewater. <i>International Journal of Environmental Science and Development</i> , 2020, 11, 143-147.	0.2	0