

Sompong O-thong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

3,386
citations

31
h-index

53
g-index

116
ext. papers

3,953
ext. citations

5.8
avg, IF

5.78
L-index

#	Paper	IF	Citations
112	Deploying two-stage anaerobic process to co-digest greasy sludge and waste activated sludge for effective waste treatment and biogas recovery. <i>Journal of Environmental Management</i> , 2022 , 316, 115307 ⁹	7.9	0
111	Enhanced biogas production by co-digestion of crude glycerol and ethanol with palm oil mill effluent and microbial community analysis. <i>Biomass and Bioenergy</i> , 2021 , 148, 106037	5.3	5
110	Enhancement of Thermophilic Biogas Production from Palm Oil Mill Effluent by pH Adjustment and Effluent Recycling. <i>Processes</i> , 2021 , 9, 878	2.9	1
109	Symbiotic Bacteroides and Clostridium-rich methanogenic consortium enhanced biogas production of high-solid anaerobic digestion systems. <i>Bioresource Technology Reports</i> , 2021 , 14, 100685	4.1	4
108	Development of a novel reactor for simultaneous production of biogas from oil-palm empty fruit bunches (EFB) and palm oil mill effluents (POME). <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105209	6.8	4
107	Selection of Microorganisms Possessing Thermostable Lignocellulolytic Enzymes and Application of the Enzymes for Saccharification of Pretreated Palm Oil Mill Wastes. <i>Waste and Biomass Valorization</i> , 2021 , 12, 711-724	3.2	3
106	Improvement of empty palm fruit bunches biodegradability and biogas production by integrating the straw mushroom cultivation as a pretreatment in the solid-state anaerobic digestion. <i>Bioresource Technology</i> , 2021 , 319, 124227	11	15
105	Effectiveness of using two-stage anaerobic digestion to recover bio-energy from high strength palm oil mill effluents with simultaneous treatment. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101661 ^{6,7}	6.7	8
104	Simultaneous biogas upgrading and acetic acid production by homoacetogens consortium enriched from peatland soil. <i>Bioresource Technology Reports</i> , 2021 , 15, 100701	4.1	1
103	Strategies for recovery of imbalanced full-scale biogas reactor feeding with palm oil mill effluent. <i>PeerJ</i> , 2021 , 9, e10592	3.1	2
102	Microbial insights of enhanced anaerobic conversion of syngas into volatile fatty acids by co-fermentation with carbohydrate-rich synthetic wastewater. <i>Biotechnology for Biofuels</i> , 2020 , 13, 53	7.8	11
101	CO as electron donor for efficient medium chain carboxylate production by chain elongation: Microbial and thermodynamic insights. <i>Chemical Engineering Journal</i> , 2020 , 390, 124577	14.7	9
100	Characterization and biogas production potentials of aqueous phase produced from hydrothermal carbonization of biomass [Major components and their binary mixtures. <i>Chemical Engineering Journal</i> , 2020 , 388, 124201	14.7	17
99	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. <i>Environmental Science & Technology</i> , 2020 , 54, 5755-5766	10.3	74
98	Comparative assessment of single-stage and two-stage anaerobic digestion for biogas production from high moisture municipal solid waste. <i>PeerJ</i> , 2020 , 8, e9693	3.1	8
97	Two-stage fermentation process for bioenergy and biochemicals production from industrial and agricultural wastewater. <i>Advances in Bioenergy</i> , 2020 , 5, 249-308	3.9	2
96	Improved Methane Production Using Lignocellulolytic Enzymes from <i>Trichoderma koningiopsis</i> TM3 Through Co-digestion of Palm Oil Mill Effluent and Oil Palm Trunk Residues. <i>Waste and Biomass Valorization</i> , 2020 , 11, 5123-5136	3.2	7

95	Effect of oil and derivative in palm oil mill effluent on the process imbalance of biogas production. <i>Journal of Cleaner Production</i> , 2020 , 247, 119110	10.3	12
94	Biogas production from palm oil mill effluent and empty fruit bunches by coupled liquid and solid-state anaerobic digestion. <i>Bioresource Technology</i> , 2020 , 296, 122304	11	27
93	Enhanced solid-state biomethanisation of oil palm empty fruit bunches following fungal pretreatment. <i>Industrial Crops and Products</i> , 2020 , 145, 112099	5.9	13
92	Simultaneous biohythane production and sulfate removal from rubber sheet wastewater by two-stage anaerobic digestion. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 263-274	6.7	13
91	Mesophilic and thermophilic anaerobic digestion of aqueous phase generated from hydrothermal liquefaction of cornstalk: Molecular and metabolic insights. <i>Water Research</i> , 2020 , 168, 115199	12.5	30
90	Characterization of cellulose fiber isolated from oil palm frond biomass. <i>Materials Today: Proceedings</i> , 2019 , 17, 1995-2001	1.4	8
89	Thermophilic Fermentation for Enhanced Biohydrogen Production 2019 , 123-139		1
88	Enhancement of biohythane production from solid waste by co-digestion with palm oil mill effluent in two-stage thermophilic fermentation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17224-17237	6.7	25
87	Hydrodynamic characteristics and model of fluidized bed reactor with immobilised cells on activated carbon for biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9256-9271	6.7	8
86	Effect of inoculum types and microbial community on thermophilic and mesophilic solid-state anaerobic digestion of empty fruit bunches for biogas production. <i>Industrial Crops and Products</i> , 2019 , 133, 193-202	5.9	20
85	Improvement of biohythane production from <i>Chlorella</i> sp. TISTR 8411 biomass by co-digestion with organic wastes in a two-stage fermentation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17238-17247	6.7	10
84	Thermotolerant cellulolytic Clostridiaceae and Lachnospiraceae rich consortium enhanced biogas production from oil palm empty fruit bunches by solid-state anaerobic digestion. <i>Bioresource Technology</i> , 2019 , 291, 121851	11	24
83	Thermophilic biohydrogen production from palm oil mill effluent: Effect of immobilized cells on granular activated carbon in fluidized bed reactor. <i>Food and Bioprocesses Processing</i> , 2019 , 117, 231-240	4.9	10
82	Molecular and microbial insights towards understanding the anaerobic digestion of the wastewater from hydrothermal liquefaction of sewage sludge facilitated by granular activated carbon (GAC). <i>Environment International</i> , 2019 , 133, 105257	12.9	43
81	Characterization of Bacterial Cellulose From Oil Palm Shoot Juices and Coconut Juice/Poly(ethylene glycol) Biocomposite. <i>Journal of Renewable Materials</i> , 2019 , 7, 493-504	2.4	1
80	High efficient biohydrogen production from palm oil mill effluent by two-stage dark fermentation and microbial electrolysis under thermophilic condition. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 31841-31852	6.7	19
79	Biogas Production from Oil Palm Empty Fruit Bunches and Palm Oil Decanter Cake using Solid-State Anaerobic co-Digestion. <i>Energies</i> , 2019 , 12, 4368	3.1	6
78	Pilot-scale of biohythane production from palm oil mill effluent by two-stage thermophilic anaerobic fermentation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3347-3355	6.7	37

77	Trace metals supplementation enhanced microbiota and biohythane production by two-stage thermophilic fermentation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3325-3338	6.7	11
76	Hydrogen production from xylose by moderate thermophilic mixed cultures using granules and biofilm up-flow anaerobic reactors. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3317-3324	6.7	20
75	Biohythane Production from Organic Wastes by Two-Stage Anaerobic Fermentation Technology 2018 ,		7
74	Productions and Properties of Bacterial Cellulose from Oil Palm Shoot Juices Felled Medium and Coconut Medium. <i>Key Engineering Materials</i> , 2017 , 728, 271-276	0.4	
73	Draft genome sequence of sp. strain PSU-2 isolated from thermophilic hydrogen producing reactor. <i>Genomics Data</i> , 2017 , 12, 49-51		11
72	Biohythane production from <i>Chlorella</i> sp. biomass by two-stage thermophilic solid-state anaerobic digestion. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27792-27800	6.7	12
71	Continuous hydrogen production from cassava starch processing wastewater by two-stage thermophilic dark fermentation and microbial electrolysis. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27584-27592	6.7	57
70	Effects of volatile fatty acids in biohydrogen effluent on biohythane production from palm oil mill effluent under thermophilic condition. <i>Electronic Journal of Biotechnology</i> , 2017 , 29, 78-85	3.1	56
69	Direct hydrolysis of palm oil mill effluent by xylanase enzyme to enhance biogas production using two-steps thermophilic fermentation under non-sterile condition. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27759-27766	6.7	23
68	Thermophilic solid-state anaerobic digestion of solid waste residues from palm oil mill industry for biogas production. <i>Industrial Crops and Products</i> , 2017 , 95, 502-511	5.9	34
67	Anaerobic co-digestion between canned sardine wastewater and glycerol waste for biogas production: Effect of different operating processes. <i>Energy Procedia</i> , 2017 , 138, 260-266	2.3	4
66	Anaerobic Co-Digestion of Palm Oil Mill Waste Residues with Sewage Sludge for Biogas Production. <i>Energy Procedia</i> , 2017 , 138, 789-794	2.3	10
65	Biogas Production from <i>Chlorella</i> sp. TISTR 8411 Biomass Cultivated on Biogas Effluent of Seafood Processing Wastewater. <i>Energy Procedia</i> , 2017 , 138, 853-857	2.3	9
64	Efficiency Evaluation of Biofilter for Hydrogen Sulfide Removal from Palm Oil Mill Biogas. <i>Energy Procedia</i> , 2017 , 138, 564-568	2.3	7
63	Biological Hydrogen Sulfide and Sulfate Removal from Rubber Smoked Sheet Wastewater for Enhanced Biogas Production. <i>Energy Procedia</i> , 2017 , 138, 569-574	2.3	7
62	Biogas Production from Anaerobic Co-digestion of Palm Oil Mill Effluent and Empty Fruit Bunches. <i>Energy Procedia</i> , 2017 , 138, 717-722	2.3	19
61	Sulfite Pretreatment to Overcome Recalcitrance of Lignocellulose for Enzymatic Hydrolysis of Oil Palm trunk. <i>Energy Procedia</i> , 2017 , 138, 1122-1127	2.3	16
60	Microbial Population Optimization for Control and Improvement of Dark Hydrogen Fermentation 2017 ,		4

59	Population Genetic Analysis of Oceanic Paddle Crab (<i>Varuna litterata</i>) in Thailand 2017 , 46, 2251-2261		3
58	Indigenous <i>Halomonas</i> spp., the Potential Nitrifying Bacteria for Saline Ammonium Waste Water Treatment. <i>Pakistan Journal of Biological Sciences</i> , 2017 , 20, 52-58	0.8	8
57	Two-stage thermophilic fermentation and mesophilic methanogenic process for biohythane production from palm oil mill effluent with methanogenic effluent recirculation for pH control. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21702-21712	6.7	71
56	KINETIC MODELS FOR PREDICTION OF COD EFFLUENT FROM UPFLOW ANAEROBIC SLUDGE BLANKET (UASB) REACTOR FOR CANNERY SEAFOOD WASTEWATER TREATMENT. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016 , 78,	1.2	3
55	Production and characterization of biopolymer as bioflocculant from thermotolerant <i>Bacillus subtilis</i> WD161 in palm oil mill effluent. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21657-21664	6.7	12
54	Optimization and microbial community analysis for production of biogas from solid waste residues of palm oil mill industry by solid-state anaerobic digestion. <i>Bioresource Technology</i> , 2016 , 214, 166-174	11	46
53	Thermophilic hydrogen production from co-fermentation of palm oil mill effluent and decanter cake by <i>Thermoanaerobacterium thermosaccharolyticum</i> PSU-2. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21692-21701	6.7	22
52	Two-stage thermophilic fermentation and mesophilic methanogen process for biohythane production from palm oil mill effluent. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6319-6328	6.7	105
51	Biohydrogen production from crude glycerol by two stage of dark and photo fermentation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7433-7438	6.7	47
50	Bio-hydrogen and bio-methane potentials of skim latex serum in batch thermophilic two-stage anaerobic digestion. <i>Bioresource Technology</i> , 2015 , 198, 198-206	11	46
49	Hydrogen and Methane Production from Starch Processing Wastewater by Thermophilic Two-Stage Anaerobic Digestion. <i>Energy Procedia</i> , 2015 , 79, 827-832	2.3	24
48	Effect of Granule Sizes on the Performance of Upflow Anaerobic Sludge Blanket (UASB) Reactors for Cassava Wastewater Treatment. <i>Energy Procedia</i> , 2015 , 79, 90-97	2.3	18
47	Dilute Acid Pretreatment of Oil Palm Trunk Biomass at High Temperature for Enzymatic Hydrolysis. <i>Energy Procedia</i> , 2015 , 79, 924-929	2.3	26
46	Bioethanol Production from Oil Palm Frond by Simultaneous Saccharification and Fermentation. <i>Energy Procedia</i> , 2015 , 79, 784-790	2.3	23
45	Anaerobic Co-Digestion Biomethanation of Cannery Seafood Wastewater with <i>Microcystis</i> SP; Blue Green Algae with/without Glycerol Waste. <i>Energy Procedia</i> , 2015 , 79, 103-110	2.3	7
44	Effect of Operating Parameters on Process Stability of Continuous Biohydrogen Production from Palm Oil Mill Effluent under Thermophilic Condition. <i>Energy Procedia</i> , 2015 , 79, 815-821	2.3	13
43	Biohythane Production from Co-Digestion of Palm Oil Mill Effluent with Solid Residues by Two-Stage Solid State Anaerobic Digestion Process. <i>Energy Procedia</i> , 2015 , 79, 943-949	2.3	29
42	Optimization and Kinetic Modeling of Ethanol Production from Oil Palm Frond Juice in Batch Fermentation. <i>Energy Procedia</i> , 2015 , 79, 111-118	2.3	30

41	Biogas Production from Biomass Residues of Palm Oil Mill by Solid State Anaerobic Digestion. <i>Energy Procedia</i> , 2015 , 79, 838-844	2.3	30
40	Anaerobic digestion of skim latex serum (SLS) for hydrogen and methane production using a two-stage process in a series of up-flow anaerobic sludge blanket (UASB) reactor. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19343-19348	6.7	25
39	Enhanced Biogas Production from Canned Seafood Wastewater by Co-digestion with Glycerol Waste and <i>Wolffia Arrhiza</i> . <i>Energy Procedia</i> , 2014 , 52, 337-351	2.3	6
38	Anaerobic Co-digestion of Canned Seafood Wastewater with Glycerol Waste for Enhanced Biogas Production. <i>Energy Procedia</i> , 2014 , 52, 328-336	2.3	25
37	Microbial community analysis of thermophilic mixed culture sludge for biohydrogen production from palm oil mill effluent. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19285-19293	6.7	19
36	Ethanol and Methane Production from Oil Palm Frond by Two Stage SSF. <i>Energy Procedia</i> , 2014 , 52, 352-361	10	
35	Statistical optimization of medium components affecting simultaneous fermentative hydrogen and ethanol production from crude glycerol by thermotolerant <i>Klebsiella</i> sp. TR17. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 751-760	6.7	14
34	Biohydrogen production from crude glycerol by immobilized <i>Klebsiella</i> sp. TR17 in a UASB reactor and bacterial quantification under non-sterile conditions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9580-9587	6.7	46
33	Anaerobic digestion foaming in full-scale biogas plants: a survey on causes and solutions. <i>Water Science and Technology</i> , 2014 , 69, 889-95	2.2	48
32	Comparison of ASBR and CSTR reactor for hydrogen production from palm oil mill effluent under thermophilic condition. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2014 , 05, 177-183	0.9	7
31	Bio-hydrogen production from glycerol by immobilized <i>Enterobacter aerogenes</i> ATCC 13048 on heat-treated UASB granules as affected by organic loading rate. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6970-6979	6.7	40
30	Hydrogen and methane production from desugared molasses using a two-stage thermophilic anaerobic process. <i>Engineering in Life Sciences</i> , 2013 , 13, 118-125	3.4	48
29	Ethanol production from glucose and xylose by immobilized <i>Thermoanaerobacter pentosaceus</i> at 70 °C in an up-flow anaerobic sludge blanket (UASB) reactor. <i>Bioresource Technology</i> , 2013 , 143, 598-607 ¹¹		23
28	Potential for using enriched cultures and thermotolerant bacterial isolates for production of biohydrogen from oil palm sap and microbial community analysis. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16412-16420	6.7	16
27	Effect of initial pH, nutrients and temperature on hydrogen production from palm oil mill effluent using thermotolerant consortia and corresponding microbial communities. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13806-13814	6.7	42
26	Simultaneous thermophilic hydrogen production and phenol removal from palm oil mill effluent by <i>Thermoanaerobacterium</i> -rich sludge. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15598-15606	6.7	29
25	Fermentative production of hydrogen and soluble metabolites from crude glycerol of biodiesel plant by the newly isolated thermotolerant <i>Klebsiella pneumoniae</i> TR17. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13314-13322	6.7	44
24	Thermophilic anaerobic co-digestion of oil palm empty fruit bunches with palm oil mill effluent for efficient biogas production. <i>Applied Energy</i> , 2012 , 93, 648-654	10.7	131

23	Effect of substrates and intermediate compounds on foaming in manure digestion systems. <i>Water Science and Technology</i> , 2012 , 66, 2146-54	2.2	28
22	Isolation and characterization of high hydrogen-producing strain <i>Clostridium beijerinckii</i> PS-3 from fermented oil palm sap. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14086-14092	6.7	24
21	Biohydrogen production from sago starch in wastewater using an enriched thermophilic mixed culture from hot spring. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14162-14171	6.7	26
20	Community analysis of thermophilic hydrogen-producing consortia enriched from Thailand hot spring with mixed xylose and glucose. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14217-14226	6.7	10
19	Biohydrogen production from desugared molasses (DM) using thermophilic mixed cultures immobilized on heat treated anaerobic sludge granules. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14261-14269	6.7	26
18	Upflow bio-filter circuit (UBFC): biocatalyst microbial fuel cell (MFC) configuration and application to biodiesel wastewater treatment. <i>Bioresource Technology</i> , 2011 , 102, 10363-70	11	26
17	Comparison of UASB and EGSB reactors performance, for treatment of raw and deoiled palm oil mill effluent (POME). <i>Journal of Hazardous Materials</i> , 2011 , 189, 229-34	12.8	71
16	Performance and microbial community analysis of two-stage process with extreme thermophilic hydrogen and thermophilic methane production from hydrolysate in UASB reactors. <i>Bioresource Technology</i> , 2011 , 102, 4028-35	11	103
15	Performance and population analysis of hydrogen production from sugarcane juice by non-sterile continuous stirred tank reactor augmented with <i>Clostridium butyricum</i> . <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8697-8703	6.7	45
14	Extreme-thermophilic biohydrogen production by an anaerobic heat treated digested sewage sludge culture. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8727-8734	6.7	15
13	Developing a thermophilic hydrogen-producing microbial consortia from geothermal spring for efficient utilization of xylose and glucose mixed substrates and oil palm trunk hydrolysate. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8785-8793	6.7	48
12	Biohydrogen production from cassava starch processing wastewater by thermophilic mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3409-3416	6.7	69
11	Effect of temperature and initial pH on biohydrogen production from palm oil mill effluent: long-term evaluation and microbial community analysis. <i>Electronic Journal of Biotechnology</i> , 2011 , 14,	3.1	17
10	Biohydrogen production from wheat straw hydrolysate by dark fermentation using extreme thermophilic mixed culture. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 899-908	4.9	100
9	Biohydrogen production from dual digestion pretreatment of poultry slaughterhouse sludge by anaerobic self-fermentation. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13427-13434	6.7	29
8	Evaluation of methods for preparing hydrogen-producing seed inocula under thermophilic condition by process performance and microbial community analysis. <i>Bioresource Technology</i> , 2009 , 100, 909-18	11	146
7	Optimization and microbial community analysis for production of biohydrogen from palm oil mill effluent by thermophilic fermentative process. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7448-7459	6.7	91
6	High yield simultaneous hydrogen and ethanol production under extreme-thermophilic (70 °C) mixed culture environment. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 5657-5665	6.7	47

5	Optimization of simultaneous thermophilic fermentative hydrogen production and COD reduction from palm oil mill effluent by Thermoanaerobacterium-rich sludge. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1221-1231	6.7	153
4	Thermophilic fermentative hydrogen production by the newly isolated Thermoanaerobacterium thermosaccharolyticum PSU-2. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1204-1214	6.7	208
3	High-rate continuous hydrogen production by Thermoanaerobacterium thermosaccharolyticum PSU-2 immobilized on heat-pretreated methanogenic granules. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6498-6508	6.7	46
2	16S rRNA-targeted probes for specific detection of Thermoanaerobacterium spp., Thermoanaerobacterium thermosaccharolyticum, and Caldicellulosiruptor spp. by fluorescent in situ hybridization in biohydrogen producing systems. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6002-6007	6.7	25
1	Improvement of biohydrogen production and treatment efficiency on palm oil mill effluent with nutrient supplementation at thermophilic condition using an anaerobic sequencing batch reactor. <i>Enzyme and Microbial Technology</i> , 2007 , 41, 583-590	3.8	111