Sompong O-thong

List of Publications by Year
in descending order

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Version: 2024-02-01

113 papers	4,534 citations	94381 37 h-index	123376 61 g-index
116 all docs	116 docs citations	116 times ranked	3285 citing authors

#	Article	IF	Citations
1	Thermophilic fermentative hydrogen production by the newly isolated Thermoanaerobacterium thermosaccharolyticum PSU-2. International Journal of Hydrogen Energy, 2008, 33, 1204-1214.	3.8	227
2	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. Environmental Science & Technology, 2020, 54, 5755-5766.	4.6	190
3	Optimization of simultaneous thermophilic fermentative hydrogen production and COD reduction from palm oil mill effluent by Thermoanaerobacterium-rich sludge. International Journal of Hydrogen Energy, 2008, 33, 1221-1231.	3.8	172
4	Evaluation of methods for preparing hydrogen-producing seed inocula under thermophilic condition by process performance and microbial community analysis. Bioresource Technology, 2009, 100, 909-918.	4.8	167
5	Thermophilic anaerobic co-digestion of oil palm empty fruit bunches with palm oil mill effluent for efficient biogas production. Applied Energy, 2012, 93, 648-654.	5.1	156
6	Improvement of biohydrogen production and treatment efficiency on palm oil mill effluent with nutrient supplementation at thermophilic condition using an anaerobic sequencing batch reactor. Enzyme and Microbial Technology, 2007, 41, 583-590.	1.6	132
7	Two-stage thermophilic fermentation and mesophilic methanogen process for biohythane production from palm oil mill effluent. International Journal of Hydrogen Energy, 2015, 40, 6319-6328.	3.8	131
8	Biohydrogen production from wheat straw hydrolysate by dark fermentation using extreme thermophilic mixed culture. Biotechnology and Bioengineering, 2010, 105, 899-908.	1.7	122
9	Performance and microbial community analysis of two-stage process with extreme thermophilic hydrogen and thermophilic methane production from hydrolysate in UASB reactors. Bioresource Technology, 2011, 102, 4028-4035.	4.8	118
10	Optimization and microbial community analysis for production of biohydrogen from palm oil mill effluent by thermophilic fermentative process. International Journal of Hydrogen Energy, 2009, 34, 7448-7459.	3.8	100
11	Molecular and microbial insights towards understanding the anaerobic digestion of the wastewater from hydrothermal liquefaction of sewage sludge facilitated by granular activated carbon (GAC). Environment International, 2019, 133, 105257.	4.8	92
12	Continuous hydrogen production from cassava starch processing wastewater by two-stage thermophilic dark fermentation and microbial electrolysis. International Journal of Hydrogen Energy, 2017, 42, 27584-27592.	3.8	85
13	Comparison of UASB and EGSB reactors performance, for treatment of raw and deoiled palm oil mill effluent (POME). Journal of Hazardous Materials, 2011, 189, 229-234.	6.5	84
14	Biohydrogen production from cassava starch processing wastewater by thermophilic mixed cultures. International Journal of Hydrogen Energy, 2011, 36, 3409-3416.	3.8	82
15	Two-stage thermophilic fermentation and mesophilic methanogenic process for biohythane production from palm oil mill effluent with methanogenic effluent recirculation for pH control. International Journal of Hydrogen Energy, 2016, 41, 21702-21712.	3.8	81
16	Effects of volatile fatty acids in biohydrogen effluent on biohythane production from palm oil mill effluent under thermophilic condition. Electronic Journal of Biotechnology, 2017, 29, 78-85.	1.2	77
17	Pilot-scale of biohythane production from palm oil mill effluent by two-stage thermophilic anaerobic fermentation. International Journal of Hydrogen Energy, 2019, 44, 3347-3355.	3.8	64
18	Bio-hydrogen and bio-methane potentials of skim latex serum in batch thermophilic two-stage anaerobic digestion. Bioresource Technology, 2015, 198, 198-206.	4.8	63

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19	Optimization and microbial community analysis for production of biogas from solid waste residues of palm oil mill industry by solid-state anaerobic digestion. Bioresource Technology, 2016, 214, 166-174.	4.8	61
20	Anaerobic digestion foaming in full-scale biogas plants: a survey on causes and solutions. Water Science and Technology, 2014, 69, 889-895.	1.2	58
21	Mesophilic and thermophilic anaerobic digestion of aqueous phase generated from hydrothermal liquefaction of cornstalk: Molecular and metabolic insights. Water Research, 2020, 168, 115199.	5.3	58
22	Biohydrogen production from crude glycerol by two stage of dark and photo fermentation. International Journal of Hydrogen Energy, 2015, 40, 7433-7438.	3.8	57
23	Hydrogen and methane production from desugared molasses using a twoâ€stage thermophilic anaerobic process. Engineering in Life Sciences, 2013, 13, 118-125.	2.0	52
24	Developing a thermophilic hydrogen-producing microbial consortia from geothermal spring for efficient utilization of xylose and glucose mixed substrates and oil palm trunk hydrolysate. International Journal of Hydrogen Energy, 2011, 36, 8785-8793.	3.8	51
25	High-rate continuous hydrogen production by Thermoanaerobacterium thermosaccharolyticum PSU-2 immobilized on heat-pretreated methanogenic granules. International Journal of Hydrogen Energy, 2008, 33, 6498-6508.	3.8	50
26	Biohydrogen production from crude glycerol by immobilized Klebsiella sp. TR17 in a UASB reactor and bacterial quantification under non-sterile conditions. International Journal of Hydrogen Energy, 2014, 39, 9580-9587.	3.8	50
27	Performance and population analysis of hydrogen production from sugarcane juice by non-sterile continuous stirred tank reactor augmented with Clostridium butyricum. International Journal of Hydrogen Energy, 2011, 36, 8697-8703.	3.8	49
28	Fermentative production of hydrogen and soluble metabolites from crude glycerol of biodiesel plant by the newly isolated thermotolerant Klebsiella pneumoniae TR17. International Journal of Hydrogen Energy, 2012, 37, 13314-13322.	3.8	49
29	Thermotolerant cellulolytic Clostridiaceae and Lachnospiraceae rich consortium enhanced biogas production from oil palm empty fruit bunches by solid-state anaerobic digestion. Bioresource Technology, 2019, 291, 121851.	4.8	49
30	Bio-hydrogen production from glycerol by immobilized Enterobacter aerogenes ATCC 13048 on heat-treated UASB granules as affected by organic loading rate. International Journal of Hydrogen Energy, 2013, 38, 6970-6979.	3.8	48
31	High yield simultaneous hydrogen and ethanol production under extreme-thermophilic (70Â°C) mixed culture environment. International Journal of Hydrogen Energy, 2009, 34, 5657-5665.	3.8	47
32	Effect of initial pH, nutrients and temperature on hydrogen production from palm oil mill effluent using thermotolerant consortia and corresponding microbial communities. International Journal of Hydrogen Energy, 2012, 37, 13806-13814.	3.8	47
33	High efficient biohydrogen production from palm oil mill effluent by two-stage dark fermentation and microbial electrolysis under thermophilic condition. International Journal of Hydrogen Energy, 2019, 44, 31841-31852.	3.8	44
34	Enhancement of biohythane production from solid waste by co-digestion with palm oil mill effluent in two-stage thermophilic fermentation. International Journal of Hydrogen Energy, 2019, 44, 17224-17237.	3.8	43
35	Optimization and Kinetic Modeling of Ethanol Production from Oil Palm Frond Juice in Batch Fermentation. Energy Procedia, 2015, 79, 111-118.	1.8	40
36	Characterization and biogas production potentials of aqueous phase produced from hydrothermal carbonization of biomass â€“ Major components and their binary mixtures. Chemical Engineering Journal, 2020, 388, 124201.	6.6	40

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37	Thermophilic solid-state anaerobic digestion of solid waste residues from palm oil mill industry for biogas production. Industrial Crops and Products, 2017, 95, 502-511.	2.5	38
38	Simultaneous thermophilic hydrogen production and phenol removal from palm oil mill effluent by Thermoanaerobacterium-rich sludge. International Journal of Hydrogen Energy, 2012, 37, 15598-15606.	3.8	37
39	Biohydrogen production from dual digestion pretreatment of poultry slaughterhouse sludge by anaerobic self-fermentation. International Journal of Hydrogen Energy, 2010, 35, 13427-13434.	3.8	36
40	Biohythane Production from Co-Digestion of Palm Oil Mill Effluent with Solid Residues by Two-Stage Solid State Anaerobic Digestion Process. Energy Procedia, 2015, 79, 943-949.	1.8	36
41	Biogas Production from Biomass Residues of Palm Oil Mill by Solid State Anaerobic Digestion. Energy Procedia, 2015, 79, 838-844.	1.8	36
42	Hydrogen and Methane Production from Starch Processing Wastewater by Thermophilic Two-Stage Anaerobic Digestion. Energy Procedia, 2015, 79, 827-832.	1.8	35
43	Biogas production from palm oil mill effluent and empty fruit bunches by coupled liquid and solid-state anaerobic digestion. Bioresource Technology, 2020, 296, 122304.	4.8	35
44	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. International Journal of Hydrogen Energy, 2014, 39, 19343-19348.	3.8	34
45	Biogas Production from Anaerobic Co-digestion of Palm Oil Mill Effluent and Empty Fruit Bunches. Energy Procedia, 2017, 138, 717-722.	1.8	34
46	Direct hydrolysis of palm oil mill effluent by xylanase enzyme to enhance biogas production using two-steps thermophilic fermentation under non-sterile condition. International Journal of Hydrogen Energy, 2017, 42, 27759-27766.	3.8	33
47	Effect of substrates and intermediate compounds on foaming in manure digestion systems. Water Science and Technology, 2012, 66, 2146-2154.	1.2	32
48	Biohydrogen production from desugared molasses (DM) using thermophilic mixed cultures immobilized on heat treated anaerobic sludge granules. International Journal of Hydrogen Energy, 2011, 36, 14261-14269.	3.8	31
49	Dilute Acid Pretreatment of Oil Palm Trunk Biomass at High Temperature for Enzymatic Hydrolysis. Energy Procedia, 2015, 79, 924-929.	1.8	31
50	Biohydrogen production from sago starch in wastewater using an enriched thermophilic mixed culture from hot spring. International Journal of Hydrogen Energy, 2011, 36, 14162-14171.	3.8	30
51	Anaerobic Co-digestion of Canned Seafood Wastewater with Glycerol Waste for Enhanced Biogas Production. Energy Procedia, 2014, 52, 328-336.	1.8	30
52	Thermophilic hydrogen production from co-fermentation of palm oil mill effluent and decanter cake by Thermoanaerobacterium thermosaccharolyticum PSU-2. International Journal of Hydrogen Energy, 2016, 41, 21692-21701.	3.8	30
53	Effect of inoculum types and microbial community on thermophilic and mesophilic solid-state anaerobic digestion of empty fruit bunches for biogas production. Industrial Crops and Products, 2019, 133, 193-202.	2.5	30
54	Isolation and characterization of high hydrogen-producing strain Clostridium beijerinckii PS-3 from fermented oil palm sap. International Journal of Hydrogen Energy, 2011, 36, 14086-14092.	3.8	29

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55	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. Bioresource Technology, 2021, 319, 124227.	4.8	29
56	Upflow bio-filter circuit (UBFC): Biocatalyst microbial fuel cell (MFC) configuration and application to biodiesel wastewater treatment. Bioresource Technology, 2011, 102, 10363-10370.	4.8	28
57	Ethanol production from glucose and xylose by immobilized Thermoanaerobacter pentosaceus at 70Â°C in an up-flow anaerobic sludge blanket (UASB) reactor. Bioresource Technology, 2013, 143, 598-607.	4.8	28
58	Hydrogen production from xylose by moderate thermophilic mixed cultures using granules and biofilm up-flow anaerobic reactors. International Journal of Hydrogen Energy, 2019, 44, 3317-3324.	3.8	28
59	Effect of temperature and initial pH on biohydrogen production from palm oil mill effluent: long-term evaluation and microbial community analysis. Electronic Journal of Biotechnology, 2011, 14, .	1.2	27
60	Bioethanol Production from Oil Palm Frond by Simultaneous Saccharification and Fermentation. Energy Procedia, 2015, 79, 784-790.	1.8	27
61	Thermophilic biohydrogen production from palm oil mill effluent: Effect of immobilized cells on granular activated carbon in fluidized bed reactor. Food and Bioproducts Processing, 2019, 117, 231-240.	1.8	27
62	16S rRNA-targeted probes for specific detection of Thermoanaerobacterium spp., Thermoanaerobacterium thermosaccharolyticum, and Caldicellulosiruptor spp. by fluorescent in situ hybridization in biohydrogen producing systems. International Journal of Hydrogen Energy, 2008, 33, 6082-6091.	3.8	26
63	Simultaneous biohythane production and sulfate removal from rubber sheet wastewater by two-stage anaerobic digestion. International Journal of Hydrogen Energy, 2020, 45, 263-274.	3.8	26
64	Indigenous Halomonas spp., the Potential Nitrifying Bacteria for Saline Ammonium Waste Water Treatment. Pakistan Journal of Biological Sciences, 2016, 20, 52-58.	0.2	25
65	Enhanced solid-state biomethanisation of oil palm empty fruit bunches following fungal pretreatment. Industrial Crops and Products, 2020, 145, 112099.	2.5	24
66	CO as electron donor for efficient medium chain carboxylate production by chain elongation: Microbial and thermodynamic insights. Chemical Engineering Journal, 2020, 390, 124577.	6.6	24
67	Sulfite Pretreatment to Overcome Recalcitrance of Lignocellulose for Enzymatic Hydrolysis of Oil Palm trunk. Energy Procedia, 2017, 138, 1122-1127.	1.8	23
68	Enhanced biogas production by co-digestion of crude glycerol and ethanol with palm oil mill effluent and microbial community analysis. Biomass and Bioenergy, 2021, 148, 106037.	2.9	23
69	Microbial community analysis of thermophilic mixed culture sludge for biohydrogen production from palm oil mill effluent. International Journal of Hydrogen Energy, 2014, 39, 19285-19293.	3.8	22
70	Effect of Granule Sizes on the Performance of Upflow Anaerobic Sludge Blanket (UASB) Reactors for Cassava Wastewater Treatment. Energy Procedia, 2015, 79, 90-97.	1.8	21
71	Hydrodynamic characteristics and model of fluidized bed reactor with immobilised cells on activated carbon for biohydrogen production. International Journal of Hydrogen Energy, 2019, 44, 9256-9271.	3.8	21
72	Effectiveness of using two-stage anaerobic digestion to recover bio-energy from high strength palm oil mill effluents with simultaneous treatment. Journal of Water Process Engineering, 2021, 39, 101661.	2.6	21

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73	Extreme-thermophilic biohydrogen production by an anaerobic heat treated digested sewage sludge culture. International Journal of Hydrogen Energy, 2011, 36, 8727-8734.	3.8	20
74	Potential for using enriched cultures and thermotolerant bacterial isolates for production of biohydrogen from oil palm sap and microbial community analysis. International Journal of Hydrogen Energy, 2012, 37, 16412-16420.	3.8	20
75	Symbiotic Bacteroides and Clostridium-rich methanogenic consortium enhanced biogas production of high-solid anaerobic digestion systems. Bioresource Technology Reports, 2021, 14, 100685.	1.5	20
76	Effect of oil and derivative in palm oil mill effluent on the process imbalance of biogas production. Journal of Cleaner Production, 2020, 247, 119110.	4.6	19
77	Microbial insights of enhanced anaerobic conversion of syngas into volatile fatty acids by co-fermentation with carbohydrate-rich synthetic wastewater. Biotechnology for Biofuels, 2020, 13, 53.	6.2	19
78	Statistical optimization of medium components affecting simultaneous fermentative hydrogen and ethanol production from crude glycerol by thermotolerant Klebsiella sp. TR17. International Journal of Hydrogen Energy, 2014, 39, 751-760.	3.8	17
79	Biohythane production from Chlorella sp. biomass by two-stage thermophilic solid-state anaerobic digestion. International Journal of Hydrogen Energy, 2017, 42, 27792-27800.	3.8	17
80	Improvement of biohythane production from Chlorella sp. TISTR 8411 biomass by co-digestion with organic wastes in a two-stage fermentation. International Journal of Hydrogen Energy, 2019, 44, 17238-17247.	3.8	17
81	Trace metals supplementation enhanced microbiota and biohythane production by two-stage thermophilic fermentation. International Journal of Hydrogen Energy, 2019, 44, 3325-3338.	3.8	17
82	Effect of Operating Parameters on Process Stability of Continuous Biohydrogen Production from Palm Oil Mill Effluent under Thermophilic Condition. Energy Procedia, 2015, 79, 815-821.	1.8	15
83	Production and characterization of biopolymer as bioflocculant from thermotolerant Bacillus subtilis WD161 in palm oil mill effluent. International Journal of Hydrogen Energy, 2016, 41, 21657-21664.	3.8	15
84	Anaerobic Co-Digestion of Palm Oil Mill Waste Residues with Sewage Sludge for Biogas Production. Energy Procedia, 2017, 138, 789-794.	1.8	15
85	Characterization of cellulose fiber isolated from oil palm frond biomass. Materials Today: Proceedings, 2019, 17, 1995-2001.	0.9	15
86	Community analysis of thermophilic hydrogen-producing consortia enriched from Thailand hot spring with mixed xylose and glucose. International Journal of Hydrogen Energy, 2011, 36, 14217-14226.	3.8	14
87	Draft genome sequence of Thermoanaerobacterium sp. strain PSU-2 isolated from thermophilic hydrogen producing reactor. Genomics Data, 2017, 12, 49-51.	1.3	13
88	Biohythane Production from Organic Wastes by Two-Stage Anaerobic Fermentation Technology. , 0, , .		13
89	Comparative assessment of single-stage and two-stage anaerobic digestion for biogas production from high moisture municipal solid waste. PeerJ, 2020, 8, e9693.	0.9	13
90	Ethanol and Methane Production from Oil Palm Frond by Two Stage SSF. Energy Procedia, 2014, 52, 352-361.	1.8	12

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91	Biological Hydrogen Sulfide and Sulfate Removal from Rubber Smoked Sheet Wastewater for Enhanced Biogas Production. Energy Procedia, 2017, 138, 569-574.	1.8	12
92	Biogas Production from Oil Palm Empty Fruit Bunches and Palm Oil Decanter Cake using Solid-State Anaerobic co-Digestion. Energies, 2019, 12, 4368.	1.6	11
93	Development of a novel reactor for simultaneous production of biogas from oil-palm empty fruit bunches (EFB) and palm oil mill effluents (POME). Journal of Environmental Chemical Engineering, 2021, 9, 105209.	3.3	11
94	Comparison of ASBR and CSTR reactor for hydrogen production from palm oil mill effluent under thermophilic condition. Advances in Bioscience and Biotechnology (Print), 2014, 05, 177-183.	0.3	11
95	Clostridium thailandense sp. nov., a novel CO2-reducing acetogenic bacterium isolated from peatland soil. International Journal of Systematic and Evolutionary Microbiology, 2022, 72, .	0.8	11
96	Biogas Production from Chlorella sp. TISTR 8411 Biomass Cultivated on Biogas Effluent of Seafood Processing Wastewater. Energy Procedia, 2017, 138, 853-857.	1.8	10
97	Efficiency Evaluation of Biofilter for Hydrogen Sulfide Removal from Palm Oil Mill Biogas. Energy Procedia, 2017, 138, 564-568.	1.8	10
98	Simultaneous biogas upgrading and acetic acid production by homoacetogens consortium enriched from peatland soil. Bioresource Technology Reports, 2021, 15, 100701.	1.5	10
99	Improved Methane Production Using Lignocellulolytic Enzymes from Trichoderma koningiopsis TM3 Through Co-digestion of Palm Oil Mill Effluent and Oil Palm Trunk Residues. Waste and Biomass Valorization, 2020, 11, 5123-5136.	1.8	9
100	Anaerobic Co-Digestion Biomethanation of Cannery Seafood Wastewater with Microcystis SP; Blue Green Algae with/without Glycerol Waste. Energy Procedia, 2015, 79, 103-110.	1.8	8
101	Enhanced Biogas Production from Canned Seafood Wastewater by Co-digestion with Glycerol Waste and Wolffia Arrhiza. Energy Procedia, 2014, 52, 337-351.	1.8	7
102	KINETIC MODELS FOR PREDICTION OF COD EFFLUENT FROM UPFLOW ANAEROBIC SLUDGE BLANKET (UASB) REACTOR FOR CANNERY SEAFOOD WASTEWATER TREATMENT. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2		6
103	Anaerobic co-digestion between canned sardine wastewater and glycerol waste for biogas production: Effect of different operating processes. Energy Procedia, 2017, 138, 260-266.	1.8	6
104	Characterization of Bacterial Cellulose From Oil Palm Shoot Juices and Coconut Juice/Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	6
105	Microbial Population Optimization for Control and Improvement of Dark Hydrogen Fermentation. , 0, , .		5
106	Selection of Microorganisms Possessing Thermostable Lignocellulolytic Enzymes and Application of the Enzymes for Saccharification of Pretreated Palm Oil Mill Wastes. Waste and Biomass Valorization, 2021, 12, 711-724.	1.8	5
107	Enhancement of Thermophilic Biogas Production from Palm Oil Mill Effluent by pH Adjustment and Effluent Recycling. Processes, 2021, 9, 878.	1.3	5
108	Two-stage fermentation process for bioenergy and biochemicals production from industrial and agricultural wastewater. Advances in Bioenergy, 2020, 5, 249-308.	0.5	5

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109	Population Genetic Analysis of Oceanic Paddle Crab (Varuna litterata) in Thailand. Sains Malaysiana, 2017, 46, 2251-2261.	0.3	5
110	Strategies for recovery of imbalanced full-scale biogas reactor feeding with palm oil mill effluent. PeerJ, 2021, 9, e10592.	0.9	3
111	Deploying two-stage anaerobic process to co-digest greasy sludge and waste activated sludge for effective waste treatment and biogas recovery. Journal of Environmental Management, 2022, 316, 115307.	3.8	3
112	Thermophilic Fermentation for Enhanced Biohydrogen Production. , 2019, , 123-139.		1
113	Productions and Properties of Bacterial Cellulose from Oil Palm Shoot Juices Felled Medium and Coconut Medium. Key Engineering Materials, 0, 728, 271-276.	0.4	0