Peer Mohamed Abdul

List of Publications by Year
in descending order

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42	1,089	394286 19	414303 32
papers	citations	h-index	g-index

43	43	43	957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of iron (II) oxide nanoparticle on biohydrogen production in thermophilic mixed fermentation. International Journal of Hydrogen Energy, 2017, 42, 27482-27493.	3.8	116
2	Effects of changes in chemical and structural characteristic of ammonia fibre expansion (AFEX) pretreated oil palm empty fruit bunch fibre on enzymatic saccharification and fermentability for biohydrogen. Bioresource Technology, 2016, 211, 200-208.	4.8	95
3	Recent advanced biotechnological strategies to enhance photo-fermentative biohydrogen production by purple non-sulphur bacteria: An overview. International Journal of Hydrogen Energy, 2020, 45, 13211-13230.	3.8	79
4	Biohydrogen production from palm oil mill effluent (POME) by two stage anaerobic sequencing batch reactor (ASBR) system for better utilization of carbon sources in POME. International Journal of Hydrogen Energy, 2019, 44, 3395-3406.	3.8	58
5	Pretreatment conditions of palm oil mill effluent (POME) for thermophilic biohydrogen production by mixed culture. International Journal of Hydrogen Energy, 2017, 42, 27512-27522.	3.8	54
6	Batch and continuous thermophilic hydrogen fermentation of sucrose using anaerobic sludge from palm oil mill effluent via immobilisation technique. Process Biochemistry, 2016, 51, 297-307.	1.8	51
7	Biohydrogen production from pentose-rich oil palm empty fruit bunch molasses: A first trial. International Journal of Hydrogen Energy, 2013, 38, 15693-15699.	3.8	45
8	Operation performance of up-flow anaerobic sludge blanket (UASB) bioreactor for biohydrogen production by self-granulated sludge using pre-treated palm oil mill effluent (POME) as carbon source. Renewable Energy, 2019, 134, 1262-1272.	4.3	43
9	Anaerobic hydrogen and methane production from low-strength beverage wastewater. International Journal of Hydrogen Energy, 2019, 44, 14351-14361.	3.8	39
10	Particle size variations of activated carbon on biofilm formation in thermophilic biohydrogen production from palm oil mill effluent. Energy Conversion and Management, 2017, 141, 354-366.	4.4	38
11	Zinc removal and recovery from industrial wastewater with a microbial fuel cell: Experimental investigation and theoretical prediction. Science of the Total Environment, 2021, 776, 145934.	3.9	36
12	Physicochemical characteristics of attached biofilm on granular activated carbon for thermophilic biohydrogen production. RSC Advances, 2015, 5, 19382-19392.	1.7	35
13	Techno-economic analysis of two-stage anaerobic system for biohydrogen and biomethane production from palm oil mill effluent. Journal of Environmental Chemical Engineering, 2021, 9, 105679.	3.3	35
14	Lignin extraction from oil palm empty fruit bunch fiber (OPEFBF) via different alkaline treatments. Biomass Conversion and Biorefinery, 2020, 10, 125-138.	2.9	31
15	Comparative toxicity effect of organic and inorganic substances in palm oil mill effluent (POME) using native microalgae species. Journal of Water Process Engineering, 2020, 34, 101165.	2.6	24
16	The use of acidified palm oil mill effluent for thermophilic biomethane production by changing the hydraulic retention time in anaerobic sequencing batch reactor. International Journal of Hydrogen Energy, 2019, 44, 3373-3381.	3.8	23
17	Biotoxicity assessment and lignocellulosic structural changes of phosphoric acid pre-treated young coconut husk hydrolysate for biohydrogen production. International Journal of Hydrogen Energy, 2019, 44, 5830-5843.	3.8	23
18	Organic Acid Pretreatment of Oil Palm Trunk Biomass for Succinic Acid Production. Waste and Biomass Valorization, 2020, 11, 5549-5559.	1.8	23

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19	Effect of carbon/nitrogen ratio and ferric ion on the production of biohydrogen from palm oil mill effluent (POME). Biocatalysis and Agricultural Biotechnology, 2020, 23, 101445.	1.5	22
20	Investigation of Temperature Effect on Start-Up Operation from Anaerobic Digestion of Acidified Palm Oil Mill Effluent. Energies, 2019, 12, 2473.	1.6	19
21	Compatibility of utilising nitrogen-rich oil palm trunk sap for succinic acid fermentation by Actinobacillus succinogenes 130Z. Bioresource Technology, 2019, 293, 122085.	4.8	17
22	Effect of nano zero-valent iron (nZVI) on biohydrogen production in anaerobic fermentation of oil palm frond juice using Clostridium butyricum JKT37. Biomass and Bioenergy, 2021, 154, 106270.	2.9	16
23	Performance of Anaerobic Digestion of Acidified Palm Oil Mill Effluent under Various Organic Loading Rates and Temperatures. Water (Switzerland), 2020, 12, 2432.	1.2	15
24	Biotechnological approach to generate green biohydrogen through the utilization of succinate-rich fermentation wastewater. International Journal of Hydrogen Energy, 2020, 45, 22246-22259.	3.8	14
25	Improvement of microbial fuel cell performance using novel kaolin earthenware membrane coated with a polybenzimidazole layer. Energy Science and Engineering, 2021, 9, 2342-2353.	1.9	14
26	Effects of pretreatment and enzyme cocktail composition on the sugars production from oil palm empty fruit bunch fiber (OPEFBF). Cellulose, 2018, 25, 4677-4694.	2.4	13
27	Enhancement of biohydrogen production from palm oil mill effluent (POME): A review. International Journal of Hydrogen Energy, 2022, 47, 40637-40655.	3.8	13
28	Potential Utilisation of Dark-Fermented Palm Oil Mill Effluent in Continuous Production of Biomethane by Self-Granulated Mixed Culture. Scientific Reports, 2020, 10, 9167.	1.6	12
29	Classification of oil palm fresh fruit maturity based on carotene content from Raman spectra. Scientific Reports, 2021, 11, 18315.	1.6	12
30	Whole slurry saccharification of mild oxalic acid-pretreated oil palm trunk biomass improves succinic acid production. Industrial Crops and Products, 2021, 171, 113854.	2.5	11
31	Recent Advances in 3D Bioprinting: A Review of Cellulose-Based Biomaterials Ink. Polymers, 2022, 14, 2260.	2.0	10
32	Dose-response analysis of toxic effect from palm oil mill effluent (POME) by-products on biohydrogen producing bacteria â€“ A preliminary study on microbial density and determination of EC50. Ecotoxicology and Environmental Safety, 2020, 203, 110991.	2.9	9
33	Effectiveness of fouling mechanism for bacterial immobilization in polyvinylidene fluoride membranes for biohydrogen fermentation. Food and Bioproducts Processing, 2020, 120, 48-57.	1.8	8
34	Dark fermentation of palm oil mill effluent by Caldicellulosiruptor saccharolyticus immobilized on activated carbon for thermophilic biohydrogen production. Environmental Technology and Innovation, 2021, 22, 101477.	3.0	8
35	Oil palm trunk biomass pretreatment with oxalic acid and its effect on enzymatic digestibility and fermentability. Materials Today: Proceedings, 2021, 42, 119-123.	0.9	7
36	Effect of Feeding Strategies and Inoculums Applied on Two-Stage Biosynthesis of Polyhydroxyalkanoates from Palm Oil Mill Effluent. Journal of Polymers and the Environment, 2020, 28, 1934-1943.	2.4	5

#	Article	IF	Citations
37	Comparative start-up between mesophilic and thermophilic for acidified palm oil mill effluent treatment. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012028.	0.2	4
38	Valorising fermentation effluent rich in short-chain fatty acids and sugars for biohydrogen via photofermentation by Rhodobacter sphaeroides KKU-PS1. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012077.	0.2	3
39	Low cost nutrient-rich oil palm trunk bagasse hydrolysate for bio-succinic acid production by Actinobacillus succinogenes. Preparative Biochemistry and Biotechnology, 2022, 52, 950-960.	1.0	3
40	An Insight into Enzymatic Immobilization Techniques on the Saccharification of Lignocellulosic Biomass. Industrial & Engineering Chemistry Research, 2022, 61, 10603-10615.	1.8	3
41	Oil palm biomass zero-waste conversion to bio-succinic acid. , 2022, , 249-275.		2
42	Kinetic Model of Thermophilic Biohydrogen Production from POME. International Journal of Integrated Engineering, 2019, 11, .	0.2	1