

Peter Nai Yuh Yek

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,954
citations

279798

23
h-index

345221

36
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docs citations

41
times ranked

2282
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of self-sustainable pyrolysis system to produce porous biochar from palm kernel shell. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3777-3784.	4.6	1
2	A state-of-the-art review on producing engineered biochar from shellfish waste and its application in aquaculture wastewater treatment. <i>Chemosphere</i> , 2022, 288, 132559.	8.2	43
3	Engineered biochar produced through microwave pyrolysis as a fuel additive in biodiesel combustion. <i>Fuel</i> , 2022, 312, 122839.	6.4	24
4	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions. <i>Bioresource Technology</i> , 2022, 347, 126687.	9.6	28
5	Fungal Fermented Palm Kernel Expeller as Feed for Black Soldier Fly Larvae in Producing Protein and Biodiesel. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 332.	3.5	13
6	Production of value-added hydrochar from single-mode microwave hydrothermal carbonization of oil palm waste for de-chlorination of domestic water. <i>Science of the Total Environment</i> , 2022, 833, 154968.	8.0	18
7	Integration of microwave co-torrefaction with helical lift for pellet fuel production. <i>Green Processing and Synthesis</i> , 2022, 11, 404-410.	3.4	4
8	Production of biochar using sustainable microwave pyrolysis approach. , 2022, , 323-332.		1
9	Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110148.	16.4	206
10	Micro-particle biochar for soil carbon pool management: Application and mechanism. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105229.	5.5	2
11	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111645.	16.4	55
12	Production of modified biochar to treat landfill leachate using integrated microwave pyrolytic CO ₂ activation. <i>Chemical Engineering Journal</i> , 2021, 425, 131886.	12.7	27
13	Microwave co-torrefaction of waste oil and biomass pellets for simultaneous recovery of waste and co-firing fuel. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111699.	16.4	29
14	Gasification of refuse-derived fuel from municipal solid waste for energy production: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2127-2140.	16.2	109
15	Engineering pyrolysis biochar via single-step microwave steam activation for hazardous landfill leachate treatment. <i>Journal of Hazardous Materials</i> , 2020, 390, 121649.	12.4	110
16	Production of biochar for potential catalytic and energy applications via microwave vacuum pyrolysis conversion of cassava stem. <i>Materials Science for Energy Technologies</i> , 2020, 3, 728-733.	1.8	15
17	Microwave wet torrefaction: A catalytic process to convert waste palm shell into porous biochar. <i>Materials Science for Energy Technologies</i> , 2020, 3, 742-747.	1.8	11
18	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020, 389, 124401.	12.7	484

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19	Simultaneous removal of toxic ammonia and lettuce cultivation in aquaponic system using microwave pyrolysis biochar. <i>Journal of Hazardous Materials</i> , 2020, 396, 122610.	12.4	81
20	Vacuum pyrolysis incorporating microwave heating and base mixture modification: An integrated approach to transform biowaste into eco-friendly bioenergy products. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109871.	16.4	140
21	Engineered biochar via microwave CO ₂ and steam pyrolysis to treat carcinogenic Congo red dye. <i>Journal of Hazardous Materials</i> , 2020, 395, 122636.	12.4	142
22	Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production. <i>Bioresource Technology</i> , 2020, 312, 123572.	9.6	48
23	Microwave steam activation, an innovative pyrolysis approach to convert waste palm shell into highly microporous activated carbon. <i>Journal of Environmental Management</i> , 2019, 236, 245-253.	7.8	120
24	Co-processing of oil palm waste and waste oil via microwave co-torrefaction: A waste reduction approach for producing solid fuel product with improved properties. <i>Chemical Engineering Research and Design</i> , 2019, 128, 30-35.	5.6	80
25	Self-purging microwave pyrolysis: an innovative approach to convert oil palm shell into carbon-rich biochar for methylene blue adsorption. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1397-1405.	3.2	91
26	Innovative production of highly porous carbon for industrial effluent remediation via microwave vacuum pyrolysis plus sodium-potassium hydroxide mixture activation. <i>Journal of Cleaner Production</i> , 2019, 208, 1436-1445.	9.3	129
27	Microwave vacuum pyrolysis conversion of waste mushroom substrate into biochar for use as growth medium in mushroom cultivation. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1406-1415.	3.2	61
28	Microwave Pyrolysis with Steam Activation in Producing Activated Carbon for Removal of Herbicides in Agricultural Surface Water. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 695-703.	3.7	77
29	Oil palm waste: An abundant and promising feedstock for microwave pyrolysis conversion into good quality biochar with potential multi-applications. <i>Chemical Engineering Research and Design</i> , 2018, 115, 57-69.	5.6	234
30	Submerged Glow-Discharge Plasma: An Economical Approach to Convert Construction Scrap Metal into Nanomaterials. <i>E3S Web of Conferences</i> , 2018, 34, 01028.	0.5	4
31	Effect of Electrolyte Concentration during Solution Plasma on Copper Nanoparticle Size. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 429, 012084.	0.6	3
32	Formation of Stainless Steel Nanoballs via Submerged Glow-discharge Plasma and their Microstructural Analysis with Evaluation of Photocatalytic Activity. <i>ISIJ International</i> , 2018, 58, 1162-1167.	1.4	2
33	Controlled nanocrystallites growth of plasma-treated Cu sheets. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 429, 012085.	0.6	0
34	Production of value-added liquid fuel via microwave co-pyrolysis of used frying oil and plastic waste. <i>Energy</i> , 2018, 162, 309-317.	8.8	116
35	Microwave pyrolysis with KOH/NaOH mixture activation: A new approach to produce micro-mesoporous activated carbon for textile dye adsorption. <i>Bioresource Technology</i> , 2018, 266, 1-10.	9.6	213
36	Heat and Flow Characteristics of Nanofluid Flow in Porous Microchannels. <i>International Journal of Automotive and Mechanical Engineering</i> , 2018, 15, 5238-5250.	0.9	3

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37	Microwave-assisted pyrolysis with chemical activation, an innovative method to convert orange peel into activated carbon with improved properties as dye adsorbent. <i>Journal of Cleaner Production</i> , 2017, 162, 1376-1387.	9.3	213
38	Microwave pyrolysis using self-generated pyrolysis gas as activating agent: An innovative single-step approach to convert waste palm shell into activated carbon. <i>E3S Web of Conferences</i> , 2017, 22, 00195.	0.5	11
39	Effect of Temperature on the Yield of Lignin Extracted Using Microwave-Assisted Acetosolv from Empty Fruit Bunch Fibers. <i>Materials Science Forum</i> , 0, 981, 240-244.	0.3	4
40	Biochar Waste Palm Shell for NO _x Post-Emission Reduction in Biodiesel Combustion. <i>Key Engineering Materials</i> , 0, 914, 193-198.	0.4	0
41	A novel microwave air heater integrated with thermal energy storage. <i>International Journal of Energy Research</i> , 0, , .	4.5	2