

Pu Okoye

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,973
citations

279487

23
h-index

253896

43
g-index

51
all docs

51
docs citations

51
times ranked

1717
citing authors

#	ARTICLE	IF	CITATIONS
1	Valorization of biodiesel byproduct glycerol to glycerol carbonate using highly reusable apatite-like catalyst derived from waste Gastropoda Mollusca. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 619-631.	2.9	6
2	A review: silicate ceramic-polymer composite scaffold for bone tissue engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 180-195.	1.8	29
3	A Review on Current Trends in Biogas Production from Microalgae Biomass and Microalgae Waste by Anaerobic Digestion and Co-digestion. <i>Bioenergy Research</i> , 2022, 15, 77-92.	2.2	18
4	A review on bi/multifunctional catalytic oxydehydration of bioglycerol to acrylic acid: Catalyst type, kinetics, and reaction mechanism. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2956-2985.	0.9	11
5	Continuous biodiesel production: A review of advances in catalysis, microfluidic and cavitation reactors. <i>Fuel</i> , 2022, 307, 121821.	3.4	43
6	Understanding the heterogeneous catalytic mechanisms of glycerol carbonate synthesis on oil palm ash surface: A density functional theory approach. <i>Fuel</i> , 2022, 307, 121874.	3.4	6
7	Waste biomass valorization for the production of biofuels and value-added products: A comprehensive review of thermochemical, biological and integrated processes. <i>Chemical Engineering Research and Design</i> , 2022, 159, 323-344.	2.7	102
8	A review on bioenergetic applications of <i>Leucaena leucocephala</i> . <i>Industrial Crops and Products</i> , 2022, 182, 114847.	2.5	9
9	Activated carbons obtained by environmentally friendly activation using solar energy for their use in neutral electrolyte supercapacitors. <i>Journal of Energy Storage</i> , 2022, 52, 104888.	3.9	20
10	Development of reusable composite eggshell-moringa leaf catalyst for biodiesel production. <i>Fuel</i> , 2022, 324, 124601.	3.4	8
11	Thermocatalytic routes and reactor strategies for valorization of biodiesel-derived glycerol to fuels. <i>Applied Thermal Engineering</i> , 2022, 214, 118901.	3.0	6
12	Preparation of a heterogeneous catalyst from moringa leaves as a sustainable precursor for biodiesel production. <i>Fuel</i> , 2021, 284, 118983.	3.4	70
13	Utilization of biochars as sustainable catalysts for upgrading of glycerol from biodiesel production. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104768.	3.3	13
14	Dark-Fenton oxidative degradation of methylene blue and acid blue 29 dyes using sulfuric acid-activated slag of the steel-making process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104831.	3.3	24
15	Natural and Low-Cost <i>P. turgidum</i> for Efficient Adsorption of Hg(II) Ions from Contaminated Solution: Isotherms and Kinetics Studies. <i>Journal of Polymers and the Environment</i> , 2021, 29, 304-312.	2.4	18
16	Carbodiimide-Assisted Synthesis of High Purity Bis(cyclic carbonate) Under Atmospheric Conditions for Preparation of Non-Isocyanate Polyurethane. <i>Journal of Polymers and the Environment</i> , 2021, 29, 1880-1893.	2.4	4
17	A review on trends in lignin extraction and valorization of lignocellulosic biomass for energy applications. <i>Journal of Cleaner Production</i> , 2021, 293, 126123.	4.6	97
18	Recycling industrial wastewater for improved carbohydrate-rich biomass production in a semi-continuous photobioreactor: Effect of hydraulic retention time. <i>Journal of Environmental Management</i> , 2021, 284, 112065.	3.8	19

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19	Trends in Sonochemical and Hydrodynamic Reactor Strategies for Catalytic Production of Biodiesel: Effects of the Influencing Process Parameters and Kinetics. <i>European Journal of Sustainable Development Research</i> , 2021, 5, em0164.	0.4	0
20	Polymer superabsorbent from disposable diaper as a sustainable precursor for the development of stable supercapacitor electrode. <i>Journal of Energy Storage</i> , 2021, 40, 102760.	3.9	18
21	Advances in activated carbon modification, surface heteroatom configuration, reactor strategies, and regeneration methods for enhanced wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105626.	3.3	29
22	Microporous Erionite-activated Carbon Composite From Oil Palm Ash for Doxycycline Antibiotic Removal. <i>Environmental Processes</i> , 2021, 8, 1501-1515.	1.7	6
23	A review on cyanobacteria cultivation for carbohydrate-based biofuels: Cultivation aspects, polysaccharides accumulation strategies, and biofuels production scenarios. <i>Science of the Total Environment</i> , 2021, 794, 148636.	3.9	23
24	Long-term semi-continuous production of carbohydrate-enriched microalgae biomass cultivated in low-loaded domestic wastewater. <i>Science of the Total Environment</i> , 2021, 798, 149227.	3.9	19
25	Energy and nutrients recovery from wastewater cultivated microalgae: Assessment of the impact of wastewater dilution on biogas yield. <i>Bioresource Technology</i> , 2021, 341, 125755.	4.8	23
26	Activated carbon from wasp hive for aqueous electrolyte supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2021, 901, 115777.	1.9	20
27	Box-Behnken optimization of glycerol transesterification reaction to glycerol carbonate over calcined oil palm fuel ash derived catalyst. <i>Renewable Energy</i> , 2020, 146, 2676-2687.	4.3	32
28	A review on recent trends in reactor systems and azeotrope separation strategies for catalytic conversion of biodiesel-derived glycerol. <i>Science of the Total Environment</i> , 2020, 719, 134595.	3.9	25
29	Role of nanoparticles on microalgal cultivation: A review. <i>Fuel</i> , 2020, 280, 118598.	3.4	72
30	Using Diaper Waste to Prepare Magnetic Catalyst for the Synthesis of Glycerol Carbonate. <i>International Journal of Polymer Science</i> , 2020, 2020, 1-9.	1.2	14
31	Adsorption of Cationic Dyes on <i>Dacryodes edulis</i> Seeds Activated Carbon Modified Using Phosphoric Acid and Sodium Chloride. <i>Environmental Processes</i> , 2020, 7, 1151-1171.	1.7	54
32	Advanced ceramic components: Materials, fabrication, and applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 85, 34-65.	2.9	148
33	Application of corncob residue-derived catalyst in the transesterification of glycerol with dimethyl carbonate to synthesize glycerol carbonate. <i>BioResources</i> , 2020, 15, 142-158.	0.5	12
34	Calcium extraction and synthesis of precipitated calcium carbonate from Mg-rich dolomite. <i>Materials Today: Proceedings</i> , 2019, 17, 1093-1099.	0.9	0
35	Single-step pyrolysis of phosphoric acid-activated chitin for efficient adsorption of cephalexin antibiotic. <i>Bioresource Technology</i> , 2019, 280, 255-259.	4.8	70
36	Disposable baby diapers waste derived catalyst for synthesizing glycerol carbonate by the transesterification of glycerol with dimethyl carbonate. <i>Journal of Cleaner Production</i> , 2019, 211, 330-341.	4.6	52

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37	High-performance porous biochar from the pyrolysis of natural and renewable seaweed (<i>Gelidiella</i>) Tj ETQq1 1 0.784314 rgBT /Overlook 159-164.	4.8	175
38	Promotional effect of calcination temperature on structural evolution, basicity, and activity of oil palm empty fruit bunch derived catalyst for glycerol carbonate synthesis. <i>Energy Conversion and Management</i> , 2019, 179, 192-200.	4.4	47
39	Water glass derived catalyst for the synthesis of glycerol carbonate via the transesterification reaction between glycerol and dimethyl carbonate. <i>Journal of the Serbian Chemical Society</i> , 2019, 84, 609-622.	0.4	2
40	Transesterification of biodiesel byproduct glycerol and dimethyl carbonate over porous biochar derived from pyrolysis of fishery waste. <i>Energy Conversion and Management</i> , 2018, 165, 794-800.	4.4	39
41	Microwave-assisted transesterification of glycerol with dimethyl carbonate over sodium silicate catalyst in the sealed reaction system. <i>Energy Conversion and Management</i> , 2018, 164, 543-551.	4.4	30
42	Aragonite precipitated calcium carbonate from magnesium rich carbonate rock for polyethersulfone hollow fibre membrane application. <i>Journal of Cleaner Production</i> , 2018, 195, 79-92.	4.6	21
43	A review on recent developments and progress in the kinetics and deactivation of catalytic acetylation of glycerolâ€™A byproduct of biodiesel. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 387-401.	8.2	84
44	Continuous synthesis of precipitated calcium carbonate using a tubular reactor with the aid of aloe vera (<i>Aloe barbadensis</i> Miller) extract as a green morphological modifier. <i>Journal of Cleaner Production</i> , 2017, 150, 104-111.	4.6	12
45	Biodiesel byproduct glycerol upgrading to glycerol carbonate over lithiumâ€™oil palm ash zeolite. <i>Energy Conversion and Management</i> , 2017, 151, 472-480.	4.4	45
46	Synthesis of oxygenated fuel additives via glycerol esterification with acetic acid over bio-derived carbon catalyst. <i>Fuel</i> , 2017, 209, 538-544.	3.4	79
47	Stabilized ladle furnace steel slag for glycerol carbonate synthesis via glycerol transesterification reaction with dimethyl carbonate. <i>Energy Conversion and Management</i> , 2017, 133, 477-485.	4.4	68
48	Glycerol carbonate synthesis from glycerol and dimethyl carbonate using trisodium phosphate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 68, 51-58.	2.7	53
49	Utilization of milk of lime (MOL) originated from carbide lime waste and operating parameters optimization study for potential precipitated calcium carbonate (PCC) production. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	16
50	Review on recent progress in catalytic carboxylation and acetylation of glycerol as a byproduct of biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 558-574.	8.2	182