Pu Okoye

List of Publications by Year in descending order

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	Review on recent progress in catalytic carboxylation and acetylation of glycerol as a byproduct of biodiesel production. Renewable and Sustainable Energy Reviews, 2016, 53, 558-574.	8.2	182
2	High-performance porous biochar from the pyrolysis of natural and renewable seaweed (Gelidiella) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 159-164.	4.8	175
3	Advanced ceramic components: Materials, fabrication, and applications. Journal of Industrial and Engineering Chemistry, 2020, 85, 34-65.	2.9	148
4	Waste biomass valorization for the production of biofuels and value-added products: A comprehensive review of thermochemical, biological and integrated processes. Chemical Engineering Research and Design, 2022, 159, 323-344.	2.7	102
5	A review on trends in lignin extraction and valorization of lignocellulosic biomass for energy applications. Journal of Cleaner Production, 2021, 293, 126123.	4.6	97
6	A review on recent developments and progress in the kinetics and deactivation of catalytic acetylation of glycerolâ€"A byproduct of biodiesel. Renewable and Sustainable Energy Reviews, 2017, 74, 387-401.	8.2	84
7	Synthesis of oxygenated fuel additives via glycerol esterification with acetic acid over bio-derived carbon catalyst. Fuel, 2017, 209, 538-544.	3.4	79
8	Role of nanoparticles on microalgal cultivation: A review. Fuel, 2020, 280, 118598.	3.4	72
9	Single-step pyrolysis of phosphoric acid-activated chitin for efficient adsorption of cephalexin antibiotic. Bioresource Technology, 2019, 280, 255-259.	4.8	70
10	Preparation of a heterogeneous catalyst from moringa leaves as a sustainable precursor for biodiesel production. Fuel, 2021, 284, 118983.	3.4	70
11	Stabilized ladle furnace steel slag for glycerol carbonate synthesis via glycerol transesterification reaction with dimethyl carbonate. Energy Conversion and Management, 2017, 133, 477-485.	4.4	68
12	Adsorption of Cationic Dyes on Dacryodes edulis Seeds Activated Carbon Modified Using Phosphoric Acid and Sodium Chloride. Environmental Processes, 2020, 7, 1151-1171.	1.7	54
13	Glycerol carbonate synthesis from glycerol and dimethyl carbonate using trisodium phosphate. Journal of the Taiwan Institute of Chemical Engineers, 2016, 68, 51-58.	2.7	53
14	Disposable baby diapers waste derived catalyst for synthesizing glycerol carbonate by the transesterification of glycerol with dimethyl carbonate. Journal of Cleaner Production, 2019, 211, 330-341.	4.6	52
15	Promotional effect of calcination temperature on structural evolution, basicity, and activity of oil palm empty fruit bunch derived catalyst for glycerol carbonate synthesis. Energy Conversion and Management, 2019, 179, 192-200.	4.4	47
16	Biodiesel byproduct glycerol upgrading to glycerol carbonate over lithiumâ€"oil palm ash zeolite. Energy Conversion and Management, 2017, 151, 472-480.	4.4	45
17	Continuous biodiesel production: A review of advances in catalysis, microfluidic and cavitation reactors. Fuel, 2022, 307, 121821.	3.4	43
18	Transesterification of biodiesel byproduct glycerol and dimethyl carbonate over porous biochar derived from pyrolysis of fishery waste. Energy Conversion and Management, 2018, 165, 794-800.	4.4	39

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19	Box-Behnken optimization of glycerol transesterification reaction to glycerol carbonate over calcined oil palm fuel ash derived catalyst. Renewable Energy, 2020, 146, 2676-2687.	4.3	32
20	Microwave-assisted transesterification of glycerol with dimethyl carbonate over sodium silicate catalyst in the sealed reaction system. Energy Conversion and Management, 2018, 164, 543-551.	4.4	30
21	A review: silicate ceramic-polymer composite scaffold for bone tissue engineering. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 180-195.	1.8	29
22	Advances in activated carbon modification, surface heteroatom configuration, reactor strategies, and regeneration methods for enhanced wastewater treatment. Journal of Environmental Chemical Engineering, 2021, 9, 105626.	3.3	29
23	A review on recent trends in reactor systems and azeotrope separation strategies for catalytic conversion of biodiesel-derived glycerol. Science of the Total Environment, 2020, 719, 134595.	3.9	25
24	Dark-Fenton oxidative degradation of methylene blue and acid blue 29 dyes using sulfuric acid-activated slag of the steel-making process. Journal of Environmental Chemical Engineering, 2021, 9, 104831.	3.3	24
25	A review on cyanobacteria cultivation for carbohydrate-based biofuels: Cultivation aspects, polysaccharides accumulation strategies, and biofuels production scenarios. Science of the Total Environment, 2021, 794, 148636.	3.9	23
26	Energy and nutrients recovery from wastewater cultivated microalgae: Assessment of the impact of wastewater dilution on biogas yield. Bioresource Technology, 2021, 341, 125755.	4.8	23
27	Aragonite precipitated calcium carbonate from magnesium rich carbonate rock for polyethersulfone hollow fibre membrane application. Journal of Cleaner Production, 2018, 195, 79-92.	4.6	21
28	Activated carbon from wasp hive for aqueous electrolyte supercapacitor application. Journal of Electroanalytical Chemistry, 2021, 901, 115777.	1.9	20
29	Activated carbons obtained by environmentally friendly activation using solar energy for their use in neutral electrolyte supercapacitors. Journal of Energy Storage, 2022, 52, 104888.	3.9	20
30	Recycling industrial wastewater for improved carbohydrate-rich biomass production in a semi-continuous photobioreactor: Effect of hydraulic retention time. Journal of Environmental Management, 2021, 284, 112065.	3.8	19
31	Long-term semi-continuous production of carbohydrate-enriched microalgae biomass cultivated in low-loaded domestic wastewater. Science of the Total Environment, 2021, 798, 149227.	3.9	19
32	Natural and Low-Cost P. turgidum for Efficient Adsorption of Hg(II) Ions from Contaminated Solution: Isotherms and Kinetics Studies. Journal of Polymers and the Environment, 2021, 29, 304-312.	2.4	18
33	A Review on Current Trends in Biogas Production from Microalgae Biomass and Microalgae Waste by Anaerobic Digestion and Co-digestion. Bioenergy Research, 2022, 15, 77-92.	2.2	18
34	Polymer superabsorbent from disposable diaper as a sustainable precursor for the development of stable supercapacitor electrode. Journal of Energy Storage, 2021, 40, 102760.	3.9	18
35	Utilization of milk of lime (MOL) originated from carbide lime waste and operating parameters optimization study for potential precipitated calcium carbonate (PCC) production. Environmental Earth Sciences, 2016, 75, 1.	1.3	16
36	Using Diaper Waste to Prepare Magnetic Catalyst for the Synthesis of Glycerol Carbonate. International Journal of Polymer Science, 2020, 2020, 1-9.	1.2	14

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37	Utilization of biochars as sustainable catalysts for upgrading of glycerol from biodiesel production. Journal of Environmental Chemical Engineering, 2021, 9, 104768.	3.3	13
38	Continuous synthesis of precipitated calcium carbonate using a tubular reactor with the aid of aloe vera (Aloe barbadensis Miller) extract as a green morphological modifier. Journal of Cleaner Production, 2017, 150, 104-111.	4.6	12
39	Application of corncob residue-derived catalyst in the transesterification of glycerol with dimethyl carbonate to synthesize glycerol carbonate. BioResources, 2020, 15, 142-158.	0.5	12
40	A review on bi/multifunctional catalytic oxydehydration of bioglycerol to acrylic acid: Catalyst type, kinetics, and reaction mechanism. Canadian Journal of Chemical Engineering, 2022, 100, 2956-2985.	0.9	11
41	A review on bioenergetic applications of Leucaena leucocephala. Industrial Crops and Products, 2022, 182, 114847.	2.5	9
42	Development of reusable composite eggshell-moringa leaf catalyst for biodiesel production. Fuel, 2022, 324, 124601.	3.4	8
43	Valorization of biodiesel byproduct glycerol to glycerol carbonate using highly reusable apatite-like catalyst derived from waste Gastropoda Mollusca. Biomass Conversion and Biorefinery, 2023, 13, 619-631.	2.9	6
44	Microporous Erionite-activated Carbon Composite From Oil Palm Ash for Doxycycline Antibiotic Removal. Environmental Processes, 2021, 8, 1501-1515.	1.7	6
45	Understanding the heterogeneous catalytic mechanisms of glycerol carbonate synthesis on oil palm ash surface: A density functional theory approach. Fuel, 2022, 307, 121874.	3.4	6
46	Thermocatalytic routes and reactor strategies for valorization of biodiesel-derived glycerol to fuels. Applied Thermal Engineering, 2022, 214, 118901.	3.0	6
47	Carbodiimide-Assisted Synthesis of High Purity Bis(cyclic carbonate) Under Atmospheric Conditions for Preparation of Non-Isocyanate Polyurethane. Journal of Polymers and the Environment, 2021, 29, 1880-1893.	2.4	4
48	Water glass derived catalyst for the synthesis of glycerol carbonate via the transesterification reaction between glycerol and dimethyl carbonate. Journal of the Serbian Chemical Society, 2019, 84, 609-622.	0.4	2
49	Calcium extraction and synthesis of precipitated calcium carbonate from Mg-rich dolomite. Materials Today: Proceedings, 2019, 17, 1093-1099.	0.9	0
50	Trends in Sonochemical and Hydrodynamic Reactor Strategies for Catalytic Production of Biodiesel: Effects of the Influencing Process Parameters and Kinetics. European Journal of Sustainable Development Research, 2021, 5, em0164.	0.4	0