

# Oseweuba Valentine Okoro

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

797  
citations

430442

18  
h-index

525886

27  
g-index

43  
all docs

43  
docs citations

43  
times ranked

598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Hydrogel-Based Bio-Inks for 3D Bioprinting in Tissue Engineering: A Review. <i>Gels</i> , 2022, 8, 179.	2.1	89
2	Meat processing waste as a potential feedstock for biochemicals and biofuels – A review of possible conversion technologies. <i>Journal of Cleaner Production</i> , 2017, 142, 1583-1608.	4.6	62
3	Desulphurisation of Biogas: A Systematic Qualitative and Economic-Based Quantitative Review of Alternative Strategies. <i>ChemEngineering</i> , 2019, 3, 76.	1.0	55
4	Alginate modification via click chemistry for biomedical applications. <i>Carbohydrate Polymers</i> , 2021, 270, 118360.	5.1	50
5	3D Bioprinting of Lignocellulosic Biomaterials. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001472.	3.9	42
6	Three-Dimensional Printing of Hydroxyapatite Composites for Biomedical Application. <i>Crystals</i> , 2021, 11, 353.	1.0	37
7	Fungal exopolysaccharides: Properties, sources, modifications, and biomedical applications. <i>Carbohydrate Polymers</i> , 2022, 284, 119152.	5.1	34
8	Protein-Based 3D Biofabrication of Biomaterials. <i>Bioengineering</i> , 2021, 8, 48.	1.6	28
9	Meat processing dissolved air flotation sludge as a potential biodiesel feedstock in New Zealand: A predictive analysis of the biodiesel product properties. <i>Journal of Cleaner Production</i> , 2017, 168, 1436-1447.	4.6	27
10	Polysaccharide-based hydrogels: properties, advantages, challenges, and optimization methods for applications in regenerative medicine. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 1319-1333.	1.8	26
11	Kinetic modelling of the solid-liquid extraction process of polyphenolic compounds from apple pomace: influence of solvent composition and temperature. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	26
12	Catalyst-Free Biodiesel Production Methods: A Comparative Technical and Environmental Evaluation. <i>Sustainability</i> , 2018, 10, 127.	1.6	25
13	Fruit pomace-lignin as a sustainable biopolymer for biomedical applications. <i>Journal of Cleaner Production</i> , 2021, 328, 129498.	4.6	24
14	New trends in biotechnological applications of photosynthetic microorganisms. <i>Biotechnology Advances</i> , 2022, 59, 107988.	6.0	22
15	The characterisation of biochar and biocrude products of the hydrothermal liquefaction of raw digestate biomass. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2947-2961.	2.9	21
16	Prognostic Assessment of the Viability of Hydrothermal Liquefaction as a Post-Resource Recovery Step after Enhanced Biomethane Generation Using Co-Digestion Technologies. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2290.	1.3	20
17	Evaluating refinery configurations for deriving sustainable aviation fuel from ethanol or syncrude. <i>Fuel Processing Technology</i> , 2021, 219, 106879.	3.7	19
18	Techno-Economic Assessment of a Scaled-Up Meat Waste Biorefinery System: A Simulation Study. <i>Materials</i> , 2019, 12, 1030.	1.3	18

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19	Polyphenol rich green tea waste hydrogel for removal of copper and chromium ions from aqueous solution. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100167.	2.1	16
20	Systematic cost evaluations of biological and thermochemical processes for ethanol production from biomass residues and industrial off-gases. <i>Energy Conversion and Management</i> , 2021, 243, 114398.	4.4	14
21	Evaluation of Biorefining Scenarios for Advanced Fuels Production from Triticale Grain. <i>Energy &amp; Fuels</i> , 2020, 34, 11003-11013.	2.5	12
22	Temperature responsive hydrogel for cells encapsulation based on graphene oxide reinforced poly(N-vinylcarbazole) hydrogels. <i>Journal of Materials Chemistry B</i> , 2021, 9, 12345-12356.	0.9	12
23	Valorization of Waste Apple Pomace for Production of Platform Biochemicals: A Multi-Objective Optimization Study. <i>Waste and Biomass Valorization</i> , 2021, 12, 6887-6901.	1.8	11
24	Optimization of Exopolysaccharide (EPS) Production by <i>Rhodotorula mucilaginosa</i> sp. GUMS16. <i>ChemEngineering</i> , 2021, 5, 39.	1.0	11
25	Waste Apple Pomace Conversion to Acrylic Acid: Economic and Potential Environmental Impact Assessments. <i>Fermentation</i> , 2022, 8, 21.	1.4	11
26	Circumventing Unintended Impacts of Waste N95 Facemask Generated during the COVID-19 Pandemic: A Conceptual Design Approach. <i>ChemEngineering</i> , 2020, 4, 54.	1.0	10
27	Enhanced keratin extraction from wool waste using a deep eutectic solvent. <i>Chemical Papers</i> , 2022, 76, 2637-2648.	1.0	10
28	Exopolysaccharide from the yeast <i>Papiliotrema terrestris</i> PT22AV for skin wound healing. <i>Journal of Advanced Research</i> , 2023, 46, 61-74.	4.4	10
29	Thermal depolymerization of biogas digestate as a viable digestate processing and resource recovery strategy. <i>Journal of Cleaner Production</i> , 2019, 217, 277-308.		9
30	Comparative Assessment of Thermo-Syngas Fermentative and Liquefaction Technologies as Waste Plastics Repurposing Strategies. <i>AgriEngineering</i> , 2020, 2, 378-392.	1.7	9
31	Experimental evaluation of a polystyrene sulphonic acid resin catalyst in the hydrolysis of low-grade lipids from the meat processing industry. <i>Biomass and Bioenergy</i> , 2018, 116, 49-59.	2.9	7
32	A fast method for in vitro biomineralization of PVA/alginate/biphasic calcium phosphate hydrogel. <i>Materials Letters</i> , 2022, 308, 131182.	1.3	7
33	Anionic exopolysaccharide from <i>Cryptococcus laurentii</i> 70766 as an alternative for alginate for biomedical hydrogels. <i>International Journal of Biological Macromolecules</i> , 2022, 212, 370-380.	3.6	6
34	Scaled-Up Biodiesel Production from Meat Processing Dissolved Air Flotation Sludge: A Simulation Study. <i>AgriEngineering</i> , 2018, 1, 17-43.	1.7	4
35	Lipases for Biofuel Production. <i>Journal of Applied Microbiology</i> , 2019, 126, 150-157.		4
36	Biopolymer-Based Hydrogels for 3D Bioprinting. <i>Journal of Materials Chemistry B</i> , 2021, 9, 12345-12356.		2

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37	Anisotropic PLGA microsphere/PVA hydrogel composite with aligned macroporous structures for directed cell adhesion and proliferation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 397-406.	1.8	2
38	An Investigation into the Applicability of Pyrolyzed Tyre Char and Tyre Crumb for the Recovery of Gold from Acidic Solutions. <i>Waste and Biomass Valorization</i> , 2021, 12, 2609-2621.	1.8	1
39	Thermal Depolymerisation of Digestate for Biofuel and Biomaterial Production. , 0, , .		1
40	Breathable and adaptive thermo-responsive personal protective clothing. , 2022, , 377-394.		0