

# Charles Oluwaseun Adetunji

## List of Publications by Citations

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144  
papers

821  
citations

16  
h-index

25  
g-index

150  
ext. papers

1,185  
ext. citations

3  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
144	Natural Products and Synthetic Analogs as a Source of Antitumor Drugs. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	63
143	Allucin and health: A comprehensive review. <i>Trends in Food Science and Technology</i> , <b>2019</b> , 86, 502-516	15.3	62
142	Effect of hexavalent chromium on the environment and removal techniques: A review. <i>Journal of Environmental Management</i> , <b>2021</b> , 280, 111809	7.9	46
141	Characterization and optimization of a rhamnolipid from <i>Pseudomonas aeruginosa</i> C1501 with novel biosurfactant activities. <i>Sustainable Chemistry and Pharmacy</i> , <b>2017</b> , 6, 26-36	3.9	40
140	Plants of the genus <i>Vitis</i> : Phenolic compounds, anticancer properties and clinical relevance. <i>Trends in Food Science and Technology</i> , <b>2019</b> , 91, 362-379	15.3	35
139	Silver nanoparticle synthesis by extract: phytochemical screening, characterization, influence of operational parameters, and preliminary antibacterial testing. <i>Heliyon</i> , <b>2019</b> , 5, e02517	3.6	33
138	Synergetic effect of rhamnolipid from <i>Pseudomonas aeruginosa</i> C1501 and phytotoxic metabolite from <i>Lasiodiplodia pseudotheobromae</i> C1136 on <i>Amaranthus hybridus</i> L. and <i>Echinochloa crus-galli</i> weeds. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 13700-13709	5.1	32
137	Isolation, structural elucidation and bioherbicidal activity of an eco-friendly bioactive 2-(hydroxymethyl) phenol, from <i>Pseudomonas aeruginosa</i> (C1501) and its ecotoxicological evaluation on soil. <i>Environmental Technology and Innovation</i> , <b>2019</b> , 13, 304-317	7	27
136	Phytochemicals in Prostate Cancer: From Bioactive Molecules to Upcoming Therapeutic Agents. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	25
135	Prolonging the shelf life of Agege Sweet Orange with chitosan-rhamnolipid coating. <i>Horticulture Environment and Biotechnology</i> , <b>2018</b> , 59, 687-697	2	25
134	Toxicity of Nanoparticles in Biomedical Application: Nanotoxicology. <i>Journal of Toxicology</i> , <b>2021</b> , 2021, 9954443	3.1	25
133	Environmental fate and effects of granular pest formulation from strains of <i>Pseudomonas aeruginosa</i> C1501 and <i>Lasiodiplodia pseudotheobromae</i> C1136 on soil activity and weeds. <i>Chemosphere</i> , <b>2018</b> , 195, 98-107	8.4	19
132	Exopolysaccharides from bacteria and fungi: current status and perspectives in Africa. <i>Heliyon</i> , <b>2020</b> , 6, e04205	3.6	19
131	Pesticides, History, and Classification <b>2020</b> , 29-42		18
130	Combination of essential oils in dairy products: A review of their functions and potential benefits. <i>LWT - Food Science and Technology</i> , <b>2020</b> , 133, 110116	5.4	18
129	Efficacy of crude and immobilized enzymes from <i>Bacillus licheniformis</i> for production of biodegraded feather meal and their assessment on chickens. <i>Environmental Technology and Innovation</i> , <b>2018</b> , 11, 116-124	7	17
128	Nutritional assessment of mycomeat produced from different agricultural substrates using wild and mutant strains from <i>Pleurotus sajor-caju</i> during solid state fermentation. <i>Animal Feed Science and Technology</i> , <b>2017</b> , 224, 14-19	3	14

127	Wild vegetable <i>Rumex acetosa</i> Linn.: Its ethnobotany, pharmacology and phytochemistry [A] review. <i>South African Journal of Botany</i> , <b>2019</b> , 125, 149-160	2.9	14
126	Apium Plants: Beyond Simple Food and Phytopharmacological Applications. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3547	2.6	14
125	Production of Phytotoxic Metabolites with Bioherbicidal Activities from <i>Lasiodiplodia pseudotheobromae</i> Produced on Different Agricultural Wastes Using Solid-State Fermentation <b>2018</b> , 42, 1163-1175		11
124	Isolation, identification, characterization, and screening of rhizospheric bacteria for herbicidal activity. <i>Organic Agriculture</i> , <b>2018</b> , 8, 195-205	1.7	11
123	Research and Development of Biopesticides: Challenges and Prospects. <i>Outlooks on Pest Management</i> , <b>2019</b> , 30, 267-276	1.7	11
122	Mushrooms-Rich Preparations on Wound Healing: From Nutritional to Medicinal Attributes. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 567518	5.6	11
121	Potency of agricultural wastes in mushroom ( <i>Pleurotus sajor-caju</i> ) biotechnology for feeding broiler chicks (Arbor acre). <i>International Journal of Recycling of Organic Waste in Agriculture</i> , <b>2019</b> , 8, 37-45	3.1	11
120	Influence of eco-friendly phytotoxic metabolites from <i>Lasiodiplodia pseudotheobromae</i> C1136 on physiological, biochemical, and ultrastructural changes on tested weeds. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 9919-9934	5.1	10
119	Environmental implications of petroleum spillages in the Niger Delta region of Nigeria: A review. <i>Journal of Environmental Management</i> , <b>2021</b> , 293, 112872	7.9	10
118	Relevance of Biosensor in Climate Smart Organic Agriculture and Their Role in Environmental Sustainability: What Has Been Done and What We Need to Do?. <i>Concepts and Strategies in Plant Sciences</i> , <b>2021</b> , 115-136	0.5	10
117	Effect of <i>Lasiodiplodia pseudotheobromae</i> Isolates, a Potential Bioherbicide for <i>Amaranthus hybridus</i> L. in Maize Culture. <i>Notulae Scientia Biologicae</i> , <b>2017</b> , 9, 131-137	0.4	9
116	Biological, Biochemical, and Biodiversity of Biomolecules from Marine-Based Beneficial Microorganisms: Industrial Perspective. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 57-81	1.1	8
115	Effect of <i>Thaumatococcus daniellii</i> leaf rat-feed on potassium bromate induced testicular toxicity. <i>Asian Pacific Journal of Reproduction</i> , <b>2016</b> , 5, 500-505	1.1	7
114	Bionanomaterials for green bionanotechnology		7
113	Hesperetin's health potential: moving from preclinical to clinical evidence and bioavailability issues, to upcoming strategies to overcome current limitations. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 1-16	11.5	7
112	Influence of chitosan edible coating on postharvest qualities of <i>Capsicum annum</i> L. during storage in evaporative cooling system. <i>Croatian Journal of Food Science and Technology</i> , <b>2019</b> , 11, 59-66	0.8	6
111	Quinoa: From Farm to Traditional Healing, Food Application, and Phytopharmacology <b>2021</b> , 439-466		6
110	Exopolysaccharides Derived from Beneficial Microorganisms: Antimicrobial, Food, and Health Benefits <b>2020</b> , 147-160		6

109	Bionanomaterials for biosensor technology		6
108	Effect of carbon-to-nitrogen ratio on eco-friendly mycoherbicide activity from <i>Lasiodiplodia pseudotheobromae</i> C1136 for sustainable weeds management in organic agriculture. <i>Environment, Development and Sustainability</i> , <b>2020</b> , 22, 1977-1990	4.5	6
107	Application of Biosensor for the Identification of Various Pathogens and Pests Mitigating Against the Agricultural Production: Recent Advances. <i>Concepts and Strategies in Plant Sciences</i> , <b>2021</b> , 169-189	0.5	6
106	Climate Change and Pesticides: Their Consequence on Microorganisms. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 83-113	1.1	6
105	Bioaugmentation: A Powerful Biotechnological Techniques for Sustainable Eco restoration of Soil and Groundwater Contaminants. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 373-398	1.1	6
104	Recent Trends in Organic Farming <b>2021</b> , 507-545		5
103	Recent Advances in the Application of Biotechnology for Improving the Production of Secondary Metabolites from Quinoa <b>2021</b> , 373-396		5
102	Quinoa, The Next Biotech Plant: Food Security and Environmental and Health Hot Spots <b>2021</b> , 419-438		5
101	Flavonoids Isolated from , an Underutilized Vegetable, Exert Monoamine A & B Inhibitory and Anti-inflammatory Effects and Their Structure-activity Relationship. <i>Turkish Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 16, 437-443	1.1	5
100	A Critical Review of Microbial Transport in Effluent Waste and Sewage Sludge Treatment. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 217-238	1.1	5
99	Utilization of Microbial Biofilm for the Biotransformation and Bioremediation of Heavily Polluted Environment. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 227-245	1.1	5
98	Nexus Between Climate Change and Food Innovation Technology: Recent Advances <b>2020</b> , 289-299		4
97	Phytochemistry, pharmacology and perceived health uses of non-cultivated vegetable <i>Cyphostemma adenocaula</i> (Steud. ex A. Rich.) Desc. ex Wild and R.B. Drumm: A review. <i>Scientific African</i> , <b>2019</b> , 2, e00053	1.7	4
96	Biochemical and pharmacotherapeutic potentials of lycopene in drug discovery <b>2021</b> , 307-360		3
95	Isolation, screening, and characterization of biosurfactant-producing microorganism that can biodegrade heavily polluted soil using molecular techniques <b>2021</b> , 53-68		3
94	Eco restoration of soil treated with biosurfactant during greenhouse and field trials <b>2021</b> , 89-105		3
93	Application of biosurfactant as a noninvasive stimulant to enhance the degradation activities of indigenous hydrocarbon degraders in the soil <b>2021</b> , 69-87		3
92	Strain improvement methodology and genetic engineering that could lead to an increase in the production of biosurfactants <b>2021</b> , 299-315		3

91	Application of biosurfactant for the production of adjuvant and their synergetic effects when combined with different agro-pesticides <b>2021</b> , 255-277		3
90	Isolation and Characterization of a Cholesterol-Lowering Bacteria from Bubalus bubalis Raw Milk. <i>Fermentation</i> , <b>2022</b> , 8, 163	4-7	3
89	Quercetin modulates granulosa cell mRNA androgen receptor gene expression in dehydroepiandrosterone-induced polycystic ovary in Wistar rats via metabolic and hormonal pathways. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , <b>2020</b> , 31,	1.6	2
88	eHealth, mHealth, and Telemedicine for COVID-19 Pandemic <b>2022</b> , 157-168		2
87	Insights on the anticancer potential of plant-food bioactives: A key focus to prostate cancer. <i>Cellular and Molecular Biology</i> , <b>2020</b> , 66, 250	1.1	2
86	Aloe Species as Valuable Sources of Functional Bioactives <b>2020</b> , 337-387		2
85	Bio-fertilizer from Trichoderma: Boom for Agriculture Production and Management of Soil- and Root-Borne Plant Pathogens <b>2020</b> , 245-256		2
84	Health Benefits of Isoflavones Found Exclusively of Plants of the Fabaceae Family <b>2020</b> , 473-508		2
83	Environmental Impact and Ecotoxicological Influence of Biofabricated and Inorganic Nanoparticle on Soil Activity <b>2019</b> , 221-239		2
82	Application of Nanoengineered Metabolites from Beneficial and Eco-friendly Microorganisms as a Biological Control Agents for Plant Pests and Pathogens <b>2019</b> , 273-302		2
81	Nanofluids for Water Treatment <b>2021</b> , 503-523		2
80	High industrial beneficial microorganisms for effective production of a high quantity of biosurfactant <b>2021</b> , 279-297		2
79	Recent Trends in Utilization of Biotechnological Tools for Environmental Sustainability. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 239-263	1.1	2
78	Recent Advances in Application of Microbial Enzymes for Biodegradation of Waste and Hazardous Waste Material. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 35-56	1.1	2
77	Diverse Techniques Applied for Effective Diagnosis of COVID-19 <b>2022</b> , 45-58		1
76	Nanomaterials from Marine Environments: An Overview <b>2020</b> , 1-18		1
75	Modified Cassava: The Last Hope That Could Help to Feed the WorldRecent Advances <b>2021</b> , 203-219		1
74	Nanomaterials from Agrowastes: Past, Present, and the Future <b>2021</b> , 1-17		1

73	Potential Agrifood Applications of Novel and Sustainable Nanomaterials: An Ecofriendly Approach <b>2020</b> , 1-17		1
72	Endophytic Microorganisms as Biological Control Agents for Plant Pathogens: A Panacea for Sustainable Agriculture <b>2019</b> , 1-20		1
71	Benefits of Geochemistry and Its Impact on Human Health <b>2021</b> , 23-35		1
70	Microalgae for Biodiesel Production <b>2021</b> , 429-445		1
69	Biofertilizer Utilization in Agricultural Sector <b>2021</b> , 293-307		1
68	General principle of primary and secondary plant metabolites: Biogenesis, metabolism, and extraction <b>2021</b> , 3-23		1
67	Bioremediation of Polythene and Plastics Using Beneficial Microorganisms. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 281-302	1.1	1
66	Bioconversion of Poultry Waste into Added-Value Products. <i>Advances in Science, Technology and Innovation</i> , <b>2021</b> , 337-348	0.3	1
65	African Walnuts: A Natural Depository of Nutritional and Bioactive Compounds Essential for Food and Nutritional Security in Africa <b>2021</b> , 331-354		1
64	Ethnopharmacological properties of Asian medicinal plants during conflict-related blockades <b>2021</b> , 53-68		1
63	Plastic-Eating Microorganisms: Recent Biotechnological Techniques for Recycling of Plastic. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 353-372	1.1	1
62	Biochemical Role of Beneficial Microorganisms: An Overview on Recent Development in Environmental and Agro Science. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 21-33	1.1	1
61	Antibacterial and antifungal activities of lipopeptides <b>2022</b> , 189-204		1
60	Machine Learning Approaches for COVID-19 Pandemic <b>2022</b> , 133-143		1
59	Smart Sensing for COVID-19 Pandemic <b>2022</b> , 145-156		1
58	Ex situ studies on <i>Macrotermes bellicosus</i> as a potential bioremediation tool of polluted dump soil sites for Sub Saharan Africa. <i>Soil and Sediment Contamination</i> , 1-19	3.2	0
57	Quantitative Estimation of Aflatoxin Level in Poultry Feed in Selected Poultry Farms.. <i>BioMed Research International</i> , <b>2022</b> , 2022, 5397561	3	0
56	A Study on the Application of Bayesian Learning and Decision Trees IoT-Enabled System in Postharvest Storage. <i>Internet of Things</i> , <b>2022</b> , 467-491	1.3	0

55	Effects of Toxicant from Pesticides on Food Security: Current Developments <b>2020</b> , 313-321		○
54	IoT-Driven Bayesian Learning: A Case Study of Reducing Road Accidents of Commercial Vehicles on Highways. <i>Internet of Things</i> , <b>2022</b> , 391-418	1.3	○
53	Influence of Heavy Metal on Food Security: Recent Advances <b>2020</b> , 257-267		○
52	Rediscovering Medicinal Activity and Food Significance of Shogaol (4, 6, 8, 10, and 12): Comprehensive Review <b>2020</b> , 125-145		○
51	Marine Polysaccharides: Properties and Applications <b>2021</b> , 423-439		○
50	Overview of the traditional systems of medicine in different continents during postwar recovery <b>2021</b> , 37-52		○
49	Mechanism of Actions Involved in Sustainable Eco restoration of Petroleum Hydrocarbons Polluted Soil by the Beneficial Microorganism. <i>Microorganisms for Sustainability</i> , <b>2021</b> , 189-206	1.1	○
48	Use of agro-wastes for <i>Lasiodiplodia pseudotheobromae</i> (C1136) production with sustainable bioefficacy. <i>Environment, Development and Sustainability</i> , 1	4.5	○
47	Medicinal Plants Used in the Treatment of Influenza A Virus Infections <b>2021</b> , 417-435		○
46	Nanosensors for detection and evaluation of organic compounds in soil <b>2021</b> , 205-219		○
45	Internet of Health Things (IoHT) for COVID-19 <b>2022</b> , 75-87		○
44	Tracing probiotic producing bacterial species from gut of buffalo ( <i>Bubalus bubalis</i> ), South-East-Asia.. <i>Brazilian Journal of Biology</i> , <b>2022</b> , 84, e259094	1.5	○
43	Potential of Plastic Waste in Enhancing the level of Pathogenicity of diverse Pathogens in the Marine Biota <b>2022</b> , 301-312		○
42	Biotechnological Application of <i>Trichoderma</i> : A Powerful Fungal Isolate with Diverse Potentials for the Attainment of Food Safety, Management of Pest and Diseases, Healthy Planet, and Sustainable Agriculture. <i>Soil Biology</i> , <b>2020</b> , 257-285	1	○
41	Greener Composites from Plant Fibers: Preparation, Structure, and Properties <b>2021</b> , 1-19		○
40	Nanomaterials and Nanocoatings for Alternative Antimicrobial Therapy <b>2021</b> , 1-17		○
39	Phytochemical-Based Nanoparticles as Foes and Friends <b>2020</b> , 295-321		○
38	In Silico Modeling as a Tool to Predict and Characterize Plant Toxicity <b>2020</b> , 367-378		○

- 37 Recent Trends in the Utilization of Biosurfactant for the Treatment of Textile Waste and Industrial Effluents. *Nanotechnology in the Life Sciences*, **2020**, 481-500 1.1
- 36 Production of Next-Generation Biodiesel from High Yielding Strains of Microorganisms: Recent Advances. *Nanotechnology in the Life Sciences*, **2020**, 31-43 1.1
- 35 Nanopesticides, Nanoherbicides, and Nanofertilizers: The Greener Aspects of Agrochemical Synthesis Using Nanotools and Nanoprocesses Toward Sustainable Agriculture **2021**, 1-15
- 34 Nanomaterials: Applications in Biomedicine and Biotechnology **2020**, 1-18
- 33 Caffeine: Nutraceutical and Health Benefit of Caffeine-Containing Commodities and Products **2020**, 425-444
- 32 Role of Pesticide Applications in Sustainable Agriculture **2021**, 235-256
- 31 Applications of Geochemistry in Livestock: Health and Nutritional Perspective **2021**, 37-55
- 30 Application in Geochemistry Toward the Achievement of a Sustainable Agricultural Science **2021**, 57-72
- 29 Polysaccharides Derived From Natural Sources: A Panacea to Health and Nutritional Challenges **2021**, 701-738
- 28 Self-Healing Polymers **2021**, 511-529
- 27 Case Study on Biofertilizer Utilization in African Continents **2021**, 561-573
- 26 Microbial Degradation of Chlorophenolic Compounds. *Environmental and Microbial Biotechnology*, **2021**, 313-349 1.4
- 25 Recent Advances in the Application of Genetically Engineered Microorganisms for Microbial Rejuvenation of Contaminated Environment. *Microorganisms for Sustainability*, **2021**, 303-324 1.1
- 24 Artificial Intelligence and Internet of Things in Instrumentation and Control in Waste Biodegradation Plants: Recent Developments. *Microorganisms for Sustainability*, **2021**, 265-279 1.1
- 23 Targeting SARS-CoV-2 Novel Corona (COVID-19) Virus Infection Using Medicinal Plants **2021**, 461-495
- 22 Medicinal Plants Used in the Treatment of Pulmonary Hypertension **2021**, 317-339
- 21 Application of molecular biotechnology to manage biotic stress affecting crop enhancement and sustainable agriculture. *Advances in Agronomy*, **2021**, 168, 39-81 7.7
- 20 Nanomaterials for decontamination of organophosphorus compounds in soil **2021**, 301-315



- 19 Application of nanocetical technology for fast and efficient control of illness **2021**, 497-508
- 18 Recent Advances in the Utilization of Bioengineered Plant-Based Nanoparticles **2021**, 149-166
- 17 Application of Next-Generation Plant-Derived Nanobiofabricated Drugs for the Management of Tuberculosis **2021**, 81-100
- 16 Pharmafoods for body cleansing of toxic exposure to chemical and biological warfare agents **2021**, 239-255
- 15 Multiomics approach for mycotoxins toxicology **2021**, 69-95
- 14 Biogenic Nanoparticles Based Drugs Derived from Medicinal Plants **2021**, 103-122
- 13 Sustainable Synthesis of Greener Nanomaterials: Principles, Processes, and Products **2021**, 1-23
- 12 Nanobubble technology for remediation of metal-contaminated soil **2021**, 427-441
- 11 Application of Nanodrugs Derived from Active Metabolites of Medicinal Plants for the Treatment of Inflammatory and Lung Diseases: Recent Advances **2021**, 609-622
- 10 Microbial Desalination. *Advances in Science, Technology and Innovation*, **2021**, 213-225 0.3
- 9 Insights on the anticancer potential of plant-food bioactives: A key focus to prostate cancer. *Cellular and Molecular Biology*, **2020**, 66, 250-263 1.1
- 8 Role of biosurfactant in the destruction of pores and destabilization of the biological membrane of pathogenic microorganisms **2022**, 175-188
- 7 Application of biosurfactant for the management of Plasmodium parasites **2022**, 159-173
- 6 Image Reconstruction for COVID-19 Using Multifrequency Electrical Impedance Tomography **2022**, 359-405
- 5 Enzymes Involved with Digestion of Animal Nutrition: Role and Their Biotechnological Application. *Soil Biology*, **2022**, 217-224 1
- 4 The Process of Methanogenesis by Rumen Microorganisms: State of Art. *Soil Biology*, **2022**, 13-20 1
- 3 Novel Microorganisms Involved in the Production of Sustainable Biogas Production. *Soil Biology*, **2022**, 123-130 1
- 2 Roles of Beneficial Microorganisms for the Effective Production of Commercial Animal Feed. *Soil Biology*, **2022**, 285-296 1

1 Biotechnology of Rumen Microorganisms: Recent Advances. *Soil Biology*, **2022**, 1-11

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