

Charles Oluwaseun Adetunji

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

1,927
citations

331670
21
h-index

345221
36
g-index

150
all docs

150
docs citations

150
times ranked

1773
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of hexavalent chromium on the environment and removal techniques: A review. Journal of Environmental Management, 2021, 280, 111809.	7.8	169
2	Allicin and health: A comprehensive review. Trends in Food Science and Technology, 2019, 86, 502-516.	15.1	127
3	Natural Products and Synthetic Analogs as a Source of Antitumor Drugs. Biomolecules, 2019, 9, 679.	4.0	117
4	Toxicity of Nanoparticles in Biomedical Application: Nanotoxicology. Journal of Toxicology, 2021, 2021, 1-21.	3.0	98
5	Silver nanoparticle synthesis by <i>Acalypha wilkesiana</i> extract: phytochemical screening, characterization, influence of operational parameters, and preliminary antibacterial testing. Heliyon, 2019, 5, e02517.	3.2	64
6	Phytochemicals in Prostate Cancer: From Bioactive Molecules to Upcoming Therapeutic Agents. Nutrients, 2019, 11, 1483.	4.1	59
7	Plants of the genus <i>Vitis</i> : Phenolic compounds, anticancer properties and clinical relevance. Trends in Food Science and Technology, 2019, 91, 362-379.	15.1	56
8	Characterization and optimization of a rhamnolipid from <i>Pseudomonas aeruginosa</i> C1501 with novel biosurfactant activities. Sustainable Chemistry and Pharmacy, 2017, 6, 26-36.	3.3	53
9	Pesticides, History, and Classification. , 2020, , 29-42.		49
10	Exopolysaccharides from bacteria and fungi: current status and perspectives in Africa. Heliyon, 2020, 6, e04205.	3.2	47
11	Environmental implications of petroleum spillages in the Niger Delta region of Nigeria: A review. Journal of Environmental Management, 2021, 293, 112872.	7.8	45
12	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. Environmental Science and Pollution Research, 2017, 24, 13700-13709.	5.3	43
13	Combination of essential oils in dairy products: A review of their functions and potential benefits. LWT - Food Science and Technology, 2020, 133, 110116.	5.2	43
14	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. Environmental Technology and Innovation, 2019, 13, 304-317.	6.1	38
15	Prolonging the shelf life of "Agege Sweet"™ orange with chitosan-rhamnolipid coating. Horticulture Environment and Biotechnology, 2018, 59, 687-697.	2.1	32
16	Isolation and Characterization of a Cholesterol-Lowering Bacteria from <i>Bubalus bubalis</i> Raw Milk. Fermentation, 2022, 8, 163.	3.0	27
17	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. Chemosphere, 2018, 195, 98-107.	8.2	26
18	Apium Plants: Beyond Simple Food and Phytopharmacological Applications. Applied Sciences (Switzerland), 2019, 9, 3547.	2.5	25

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19	Effect of carbon-to-nitrogen ratio on eco-friendly mycoherbicide activity from <i>Lasioidiplodia pseudotheobromae</i> C1136 for sustainable weeds management in organic agriculture. <i>Environment, Development and Sustainability</i> , 2020, 22, 1977-1990.	5.0	24
20	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> , 2022, 62, 4449-4464.	10.3	24
21	Research and Development of Biopesticides: Challenges and Prospects. <i>Outlooks on Pest Management</i> , 2019, 30, 267-276.	0.2	24
22	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> , 2018, 11, 116-124.	6.1	23
23	Wild vegetable <i>Rumex acetosa</i> Linn.: Its ethnobotany, pharmacology and phytochemistry – A review. <i>South African Journal of Botany</i> , 2019, 125, 149-160.	2.5	22
24	Mushrooms-Rich Preparations on Wound Healing: From Nutritional to Medicinal Attributes. <i>Frontiers in Pharmacology</i> , 2020, 11, 567518.	3.5	20
25	Application of molecular biotechnology to manage biotic stress affecting crop enhancement and sustainable agriculture. <i>Advances in Agronomy</i> , 2021, 168, 39-81.	5.2	19
26	Bionanomaterials for green bionanotechnology. , 0, , .		18
27	Flavonoids Isolated from <i>Vitex grandifolia</i>, an Underutilized Vegetable, Exert Monoamine A & B Inhibitory and Anti-inflammatory Effects and Their Structure-activity Relationship. <i>Turkish Journal of Pharmaceutical Sciences</i> , 2019, 16, 437-443.	1.4	18
28	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> , 2017, 224, 14-19.	2.2	17
29	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> , 2019, 11, 59-66.	0.3	17
30	Influence of eco-friendly phytotoxic metabolites from <i>Lasioidiplodia pseudotheobromae</i> C1136 on physiological, biochemical, and ultrastructural changes on tested weeds. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9919-9934.	5.3	16
31	Production of Phytotoxic Metabolites with Bioherbicidal Activities from <i>Lasioidiplodia pseudotheobromae</i> Produced on Different Agricultural Wastes Using Solid-State Fermentation. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2018, 42, 1163-1175.	1.5	15
32	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> , 2019, 8, 37-45.	2.0	15
33	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> , 2021, , 115-136.	0.5	15
34	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> , 2020, 31, .	1.3	14
35	Current Scenario of Nanomaterials in the Environmental, Agricultural, and Biomedical Fields. , 2021, , 129-158.		14
36	Application of biosurfactant for the production of adjuvant and their synergetic effects when combined with different agro-pesticides. , 2021, , 255-277.		14

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37	Isolation, identification, characterization, and screening of rhizospheric bacteria for herbicidal activity. <i>Organic Agriculture</i> , 2018, 8, 195-205.	2.4	13
38	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> , 2019, 2, e00053.	1.5	12
39	Strain improvement methodology and genetic engineering that could lead to an increase in the production of biosurfactants. , 2021, , 299-315.		12
40	Bio-fertilizer from <i>Trichoderma</i> : Boom for Agriculture Production and Management of Soil- and Root-Borne Plant Pathogens. , 2020, , 245-256.		12
41	Effect of <i>Thaumatococcus daniellii</i> leaf rat-feed on potassium bromate induced testicular toxicity. <i>Asian Pacific Journal of Reproduction</i> , 2016, 5, 500-505.	0.4	11
42	Climate Change and Pesticides: Their Consequence on Microorganisms. <i>Microorganisms for Sustainability</i> , 2021, , 83-113.	0.7	11
43	High industrial beneficial microorganisms for effective production of a high quantity of biosurfactant. , 2021, , 279-297.		11
44	Application of biosurfactant as a noninvasive stimulant to enhance the degradation activities of indigenous hydrocarbon degraders in the soil. , 2021, , 69-87.		11
45	Biological, Biochemical, and Biodiversity of Biomolecules from Marine-Based Beneficial Microorganisms: Industrial Perspective. <i>Microorganisms for Sustainability</i> , 2021, , 57-81.	0.7	11
46	Biochemical Role of Beneficial Microorganisms: An Overview on Recent Development in Environmental and Agro Science. <i>Microorganisms for Sustainability</i> , 2021, , 21-33.	0.7	11
47	Effect of <i>Lasiodiplodia pseudotheobromae</i> Isolates, a Potential Bioherbicide for <i>Amaranthus hybridus</i> L. in Maize Culture. <i>Notulae Scientia Biologicae</i> , 2017, 9, 131-137.	0.4	10
48	Biochemical and pharmacotherapeutic potentials of lycopene in drug discovery. , 2021, , 307-360.		10
49	Isolation, screening, and characterization of biosurfactant-producing microorganism that can biodegrade heavily polluted soil using molecular techniques. , 2021, , 53-68.		10
50	African Walnuts: A Natural Depository of Nutritional and Bioactive Compounds Essential for Food and Nutritional Security in Africa. , 2021, , 331-354.		10
51	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> , 2020, , 257-285.	0.8	10
52	Recent Trends in Organic Farming. , 2021, , 507-545.		10
53	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> , 2021, , 169-189.	0.5	9
54	Bioaugmentation: A Powerful Biotechnological Techniques for Sustainable Ecorestoration of Soil and Groundwater Contaminants. <i>Microorganisms for Sustainability</i> , 2021, , 373-398.	0.7	9

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55	A Critical Review of Microbial Transport in Effluent Waste and Sewage Sludge Treatment. Microorganisms for Sustainability, 2021, , 217-238.	0.7	9
56	Microbial Desalination. Advances in Science, Technology and Innovation, 2021, , 213-225.	0.4	9
57	Quinoa: From Farm to Traditional Healing, Food Application, and Phytopharmacology. , 2021, , 439-466.		9
58	Quantitative Estimation of Aflatoxin Level in Poultry Feed in Selected Poultry Farms. BioMed Research International, 2022, 2022, 1-7.	1.9	9
59	eHealth, mHealth, and Telemedicine for COVID-19 Pandemic. , 2022, , 157-168.		9
60	Ecorestoration of soil treated with biosurfactant during greenhouse and field trials. , 2021, , 89-105.		8
61	Bionanomaterials for biosensor technology. , 0, , .		8
62	Exopolysaccharides Derived from Beneficial Microorganisms: Antimicrobial, Food, and Health Benefits. , 2020, , 147-160.		7
63	Modified Cassava: The Last Hope That Could Help to Feed the Worldâ€™Recent Advances. , 2021, , 203-219.		7
64	Recent Advances in the Application of Biotechnology for Improving the Production of Secondary Metabolites from Quinoa. , 2021, , 373-396.		7
65	Internet of Health Things (IoHT) for COVID-19. , 2022, , 75-87.		7
66	General principle of primary and secondary plant metabolites: Biogenesis, metabolism, and extraction. , 2021, , 3-23.		6
67	Bioremediation of Polythene and Plastics Using Beneficial Microorganisms. Microorganisms for Sustainability, 2021, , 281-302.	0.7	6
68	Nexus Between Climate Change and Food Innovation Technology: Recent Advances. , 2020, , 289-299.		6
69	Diverse Techniques Applied for Effective Diagnosis of COVID-19. , 2022, , 45-58.		6
70	Machine Learning Approaches for COVID-19 Pandemic. , 2022, , 133-143.		6
71	Smart Sensing for COVID-19 Pandemic. , 2022, , 145-156.		6
72	Overview of the traditional systems of medicine in different continents during postwar recovery. , 2021, , 37-52.		5

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73	Utilization of Microbial Biofilm for the Biotransformation and Bioremediation of Heavily Polluted Environment. <i>Microorganisms for Sustainability</i> , 2021, , 227-245.	0.7	5
74	A Study on the Application of Bayesian Learning and Decision Trees IoT-Enabled System in Postharvest Storage. <i>Internet of Things</i> , 2022, , 467-491.	1.7	5
75	Application of biosurfactant for the management of Plasmodium parasites. , 2022, , 159-173.		5
76	Tracing probiotic producing bacterial species from gut of buffalo (<i>Bubalus bubalis</i>), South-East-Asia. <i>Brazilian Journal of Biology</i> , 2022, 84, e259094.	0.9	5
77	The Process of Methanogenesis by Rumen Microorganisms: State of Art. <i>Soil Biology</i> , 2022, , 13-20.	0.8	5
78	Novel Microorganisms Involved in the Production of Sustainable Biogas Production. <i>Soil Biology</i> , 2022, , 123-130.	0.8	5
79	Roles of Beneficial Microorganisms for the Effective Production of Commercial Animal Feed. <i>Soil Biology</i> , 2022, , 285-296.	0.8	5
80	Biotechnology of Rumen Microorganisms: Recent Advances. <i>Soil Biology</i> , 2022, , 1-11.	0.8	5
81	Recent Trends in Utilization of Biotechnological Tools for Environmental Sustainability. <i>Microorganisms for Sustainability</i> , 2021, , 239-263.	0.7	4
82	Medicinal Plants Used in the Treatment of Influenza A Virus Infections. , 2021, , 417-435.		4
83	Health Benefits of Isoflavones Found Exclusively of Plants of the Fabaceae Family. , 2020, , 473-508.		4
84	Effects of Toxicant from Pesticides on Food Security: Current Developments. , 2020, , 313-321.		4
85	IoT-Driven Bayesian Learning: A Case Study of Reducing Road Accidents of Commercial Vehicles on Highways. <i>Internet of Things</i> , 2022, , 391-418.	1.7	4
86	Role of biosurfactant in the destruction of pores and destabilization of the biological membrane of pathogenic microorganisms. , 2022, , 175-188.		4
87	Antibacterial and antifungal activities of lipopeptides. , 2022, , 189-204.		4
88	Targeting SARS-CoV-2 Novel Corona (COVID-19) Virus Infection Using Medicinal Plants. , 2021, , 461-495.		3
89	Medicinal Plants Used in the Treatment of Pulmonary Hypertension. , 2021, , 317-339.		3
90	Bioconversion of Poultry Waste into Added-Value Products. <i>Advances in Science, Technology and Innovation</i> , 2021, , 337-348.	0.4	3

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91	Recent Advances in Application of Microbial Enzymes for Biodegradation of Waste and Hazardous Waste Material. <i>Microorganisms for Sustainability</i> , 2021, , 35-56.	0.7	3
92	Environmental Impact and Ecotoxicological Influence of Biofabricated and Inorganic Nanoparticle on Soil Activity. , 2019, , 221-239.		3
93	Application of Nanoengineered Metabolites from Beneficial and Eco-friendly Microorganisms as a Biological Control Agents for Plant Pests and Pathogens. , 2019, , 273-302.		3
94	Aloe Species as Valuable Sources of Functional Bioactives. , 2020, , 337-387.		3
95	Rediscovering Medicinal Activity and Food Significance of Shogaol (4, 6, 8, 10, and 12): Comprehensive Review. , 2020, , 125-145.		2
96	Recent Advances in the Application of Genetically Engineered Microorganisms for Microbial Rejuvenation of Contaminated Environment. <i>Microorganisms for Sustainability</i> , 2021, , 303-324.	0.7	2
97	Recent Advances in the Utilization of Bioengineered Plant-Based Nanoparticles. , 2021, , 149-166.		2
98	Mechanism of Actions Involved in Sustainable Ecorestoration of Petroleum Hydrocarbons Polluted Soil by the Beneficial Microorganism. <i>Microorganisms for Sustainability</i> , 2021, , 189-206.	0.7	2
99	Use of agro-wastes for <i>Lasiodiplodia pseudotheobromae</i> (C1136) production with sustainable bioefficacy. <i>Environment, Development and Sustainability</i> , 2022, 24, 7794-7809.	5.0	2
100	Nanobubble technology for remediation of metal-contaminated soil. , 2021, , 427-441.		2
101	Insights on the anticancer potential of plant-food bioactives: A key focus to prostate cancer. <i>Cellular and Molecular Biology</i> , 2020, 66, 250.	0.9	2
102	Nanomaterials: Applications in Biomedicine and Biotechnology. , 2020, , 1-18.		2
103	Nanomaterials from Marine Environments: An Overview. , 2020, , 1-18.		2
104	Artificial Intelligence and Internet of Things in Instrumentation and Control in Waste Biodegradation Plants: Recent Developments. <i>Microorganisms for Sustainability</i> , 2021, , 265-279.	0.7	1
105	Arbuscular Mycorrhizae: Under-Tapped Potential Benefits and Perspective on Africa. <i>OnLine Journal of Biological Sciences</i> , 2021, 21, 12-25.	0.4	1
106	Multimomics approach for mycotoxins toxicology. , 2021, , 69-95.		1
107	Ethnopharmacological properties of Asian medicinal plants during conflict-related blockades. , 2021, , 53-68.		1
108	Nanosensors for detection and evaluation of organic compounds in soil. , 2021, , 205-219.		1

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109	Plastic-Eating Microorganisms: Recent Biotechnological Techniques for Recycling of Plastic. Microorganisms for Sustainability, 2021, , 353-372.	0.7	1
110	Potential Agrifood Applications of Novel and Sustainable Nanomaterials: An Ecofriendly Approach. , 2020, , 1-17.		1
111	Endophytic Microorganisms as Biological Control Agents for Plant Pathogens: A Panacea for Sustainable Agriculture. , 2019, , 1-20.		1
112	Influence of Heavy Metal on Food Security: Recent Advances. , 2020, , 257-267.		1
113	Ex situ studies on Macrotermes bellicosus as a potential bioremediation tool of polluted dump soil sites for Sub Saharan Africa. Soil and Sediment Contamination, 0, , 1-19.	1.9	1
114	Image Reconstruction for COVID-19 Using Multifrequency Electrical Impedance Tomography. , 2022, , 359-405.		1
115	Caffeine: Nutraceutical and Health Benefit of Caffeine-Containing Commodities and Products. , 2020, , 425-444.		0
116	Microbial Degradation of Chlorophenolic Compounds. Environmental and Microbial Biotechnology, 2021, , 313-349.	0.7	0
117	Nanomaterials for decontamination of organophosphorus compounds in soil. , 2021, , 301-315.		0
118	Application of nanoceutical technology for fast and efficient control of illness. , 2021, , 497-508.		0
119	Pharmafoods for body cleansing of toxic exposure to chemical and biological warfare agents. , 2021, , 239-255.		0
120	Application of Beneficial Microorganisms with High Efficient Biosorption Potential for the Bioremediation of Pesticide Contamination of Freshwater and Soil Environment. , 2021, , 233-254.		0
121	Recent Trends in the Utilization of Biosurfactant for the Treatment of Textile Waste and Industrial Effluents. Nanotechnology in the Life Sciences, 2020, , 481-500.	0.6	0
122	Production of Next-Generation Biodiesel from High Yielding Strains of Microorganisms: Recent Advances. Nanotechnology in the Life Sciences, 2020, , 31-43.	0.6	0
123	Nanopesticides, Nanoherbicides, and Nanofertilizers: The Greener Aspects of Agrochemical Synthesis Using Nanotools and Nanoprocesses Toward Sustainable Agriculture. , 2021, , 1-15.		0
124	Greener Composites from Plant Fibers: Preparation, Structure, and Properties. , 2021, , 1-19.		0
125	Potential of Plastic Waste in Enhancing the level of Pathogenicity of diverse Pathogens in the Marine Biota. , 2022, , 301-312.		0
126	Insights on the anticancer potential of plant-food bioactives: A key focus to prostate cancer. Cellular and Molecular Biology, 2020, 66, 250-263.	0.9	0