Charles Oluwaseun Adetunji

List of Publications by Year
in descending order

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126 papers	1,927 citations	331642 21 h-index	345203 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 Acalypha wilkesiana 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 Vitis: 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 Pseudomonas aeruginosa 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 Pseudomonas aeruginosa C1501 and phytotoxic metabolite from Lasiodiplodia pseudotheobromae C1136 on Amaranthus hybridus L. and Echinochloa crus-galli 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 Pseudomonas aeruginosa (C1501) and its ecotoxicological evaluation on soil. Environmental Technology and Innovation, 2019, 13, 304-317.	6.1	38
15	Prolonging the shelf life of â€˜Agege Sweetâ€™ orange with chitosanâ€“rhamnolipid coating. Horticulture Environment and Biotechnology, 2018, 59, 687-697.	2.1	32
16	Isolation and Characterization of a Cholesterol-Lowering Bacteria from Bubalus bubalis Raw Milk. Fermentation, 2022, 8, 163.	3.0	27
17	Environmental fate and effects of granular pesta formulation from strains of Pseudomonas aeruginosa C1501 and Lasiodiplodia pseudotheobromae 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 Lasiodiplodia pseudotheobromae C1136 for sustainable weeds management in organic agriculture. Environment, Development and Sustainability, 2020, 22, 1977-1990.	5.0	24
20	Hesperetinâ€™s health potential: moving from preclinical to clinical evidence and bioavailability issues, to upcoming strategies to overcome current limitations. Critical Reviews in Food Science and Nutrition, 2022, 62, 4449-4464.	10.3	24
21	Research and Development of Biopesticides: Challenges and Prospects. Outlooks on Pest Management, 2019, 30, 267-276.	0.2	24
22	Efficacy of crude and immobilizedenzymes from Bacillus licheniformis for production of biodegraded feather meal and their assessment on chickens. Environmental Technology and Innovation, 2018, 11, 116-124.	6.1	23
23	Wild vegetable Rumex acetosa Linn.: Its ethnobotany, pharmacology and phytochemistry â€“ A review. South African Journal of Botany, 2019, 125, 149-160.	2.5	22
24	Mushrooms-Rich Preparations on Wound Healing: From Nutritional to Medicinal Attributes. Frontiers in Pharmacology, 2020, 11, 567518.	3.5	20
25	Application of molecular biotechnology to manage biotic stress affecting crop enhancement and sustainable agriculture. Advances in Agronomy, 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. Turkish Journal of Pharmaceutical Sciences, 2019, 16, 437-443.	1.4	18
28	Nutritional assessment of mycomeat produced from different agricultural substrates using wild and mutant strains from Pleurotus sajor-caju during solid state fermentation. Animal Feed Science and Technology, 2017, 224, 14-19.	2.2	17
29	Influence of chitosan edible coating on postharvest qualities of Capsicum annum L. during storage in evaporative cooling system. Croatian Journal of Food Science and Technology, 2019, 11, 59-66.	0.3	17
30	Influence of eco-friendly phytotoxic metabolites from Lasiodiplodia pseudotheobromae C1136 on physiological, biochemical, and ultrastructural changes on tested weeds. Environmental Science and Pollution Research, 2020, 27, 9919-9934.	5.3	16
31	Production of Phytotoxic Metabolites with Bioherbicidal Activities from Lasiodiplodia pseudotheobromae Produced on Different Agricultural Wastes Using Solid-State Fermentation. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 1163-1175.	1.5	15
32	Potency of agricultural wastes in mushroom (Pleurotus sajor-caju) biotechnology for feeding broiler chicks (Arbor acre). International Journal of Recycling of Organic Waste in Agriculture, 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?. Concepts and Strategies in Plant Sciences, 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. Journal of Basic and Clinical Physiology and Pharmacology, 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. Organic Agriculture, 2018, 8, 195-205.	2.4	13
38	Phytochemistry, pharmacology and perceived health uses of non-cultivated vegetable Cyphostemma adenocaule (Steud. ex A. Rich.) Desc. ex Wild and R.B. Drumm: A review. Scientific African, 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 Trichoderma: Boom for Agriculture Production and Management of Soil- and Root-Borne Plant Pathogens. , 2020, , 245-256.		12
41	Effect of Thaumatococcus daniellii leaf rat-feed on potassium bromate induced testicular toxicity. Asian Pacific Journal of Reproduction, 2016, 5, 500-505.	0.4	11
42	Climate Change and Pesticides: Their Consequence on Microorganisms. Microorganisms for Sustainability, 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. Microorganisms for Sustainability, 2021, , 57-81.	0.7	11
46	Biochemical Role of Beneficial Microorganisms: An Overview on Recent Development in Environmental and Agro Science. Microorganisms for Sustainability, 2021, , 21-33.	0.7	11
47	Effect of Lasiodiplodia pseudotheobromae Isolates, a Potential Bioherbicide for Amaranthus hybridus L. in Maize Culture. Notulae Scientia Biologicae, 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 Trichoderma: A Powerful Fungal Isolate with Diverse Potentials for the Attainment of Food Safety, Management of Pest and Diseases, Healthy Planet, and Sustainable Agriculture. Soil Biology, 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. Concepts and Strategies in Plant Sciences, 2021, , 169-189.	0.5	9
54	Bioaugmentation: A Powerful Biotechnological Techniques for Sustainable Ecorestoration of Soil and Groundwater Contaminants. Microorganisms for Sustainability, 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. Microorganisms for Sustainability, 2021, , 227-245.	0.7	5
74	A Study on the Application of Bayesian Learning and Decision Trees IoT-Enabled System in Postharvest Storage. Internet of Things, 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 (Bubalus bubalis), South-East-Asia. Brazilian Journal of Biology, 2022, 84, e259094.	0.9	5
77	The Process of Methanogenesis by Rumen Microorganisms: State of Art. Soil Biology, 2022, , 13-20.	0.8	5
78	Novel Microorganisms Involved in the Production of Sustainable Biogas Production. Soil Biology, 2022, , 123-130.	0.8	5
79	Roles of Beneficial Microorganisms for the Effective Production of Commercial Animal Feed. Soil Biology, 2022, , 285-296.	0.8	5
80	Biotechnology of Rumen Microorganisms: Recent Advances. Soil Biology, 2022, , 1-11.	0.8	5
81	Recent Trends in Utilization of Biotechnological Tools for Environmental Sustainability. Microorganisms for Sustainability, 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. Internet of Things, 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. Advances in Science, Technology and Innovation, 2021, , 337-348.	0.4	3

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91	Recent Advances in Application of Microbial Enzymes for Biodegradation ofÂWaste and Hazardous Waste Material. Microorganisms for Sustainability, 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 aÂBiological 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. Microorganisms for Sustainability, 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. Microorganisms for Sustainability, 2021, , 189-206.	0.7	2
99	Use of agro-wastes for Lasiodiplodia pseudotheobromae (C1136) production with sustainable bioefficacy. Environment, Development and Sustainability, 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. Cellular and Molecular Biology, 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. Microorganisms for Sustainability, 2021, , 265-279.	0.7	1
105	Arbuscular Mycorrhizae: Under-Tapped Potential Benefits and Perspective on Africa. OnLine Journal of Biological Sciences, 2021, 21, 12-25.	0.4	1
106	Multiomics 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