

Alagarsamy Arun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3738557/publications.pdf>

Version: 2024-02-01

73
papers

1,850
citations

279798

23
h-index

289244

40
g-index

78
all docs

78
docs citations

78
times ranked

1994
citing authors

#	ARTICLE	IF	CITATIONS
1	SARS-CoV-2 and its new variants: a comprehensive review on nanotechnological application insights into potential approaches. Applied Nanoscience (Switzerland), 2023, 13, 65-93.	3.1	8
2	Heterostructured two dimensional materials of MXene and graphene by hydrothermal method for efficient hydrogen production and HER activities. International Journal of Hydrogen Energy, 2023, 48, 6478-6487.	7.1	15
3	Green tea extract mediated biogenic synthesis of gold nanoparticles with potent anti-proliferative effect against PC-3 human prostate cancer cells. Materials Letters, 2022, 306, 130882.	2.6	24
4	Evaluation of antioxidant, anti-inflammatory, and anti-hyperglycemic effects of Wattakaka volubilis Linn. f. Process Biochemistry, 2022, 112, 183-191.	3.7	5
5	Wastewater substrates in microbial fuel cell systems for carbon-neutral bioelectricity generation: An overview. Fuel, 2022, 317, 123369.	6.4	19
6	Microbial nanotechnology in food industry: antimicrobial packaging. , 2022, , 311-329.		1
7	Microbes incorporated nanomaterials for water purification. , 2022, , 439-459.		1
8	Pathogen identification through surface marker recognition methods. , 2022, , 355-373.		1
9	Microbial bio-based polymer nanocomposite for food industry applications. , 2022, , 331-354.		1
10	Green nanotechnology for the environment. , 2022, , 461-478.		5
11	Enzymes incorporated nanotechnology for wastewater treatment. , 2022, , 415-438.		1
12	Extraction, identification, and environmental risk assessment of microplastics in commercial toothpaste. Chemosphere, 2022, 296, 133976.	8.2	25
13	Macrocyclic η^5 -Cp*Derived Cobalt(III) Complex with a N^2 -Disubstituted Hexadentate Ligand: Crystal Structure, Photonuclease Activity, and as a Photosensitizer. ACS Omega, 2022, 7, 669-682.	3.5	9
14	Studies on Optimization of Sustainable Lactic Acid Production by Bacillus amyloliquefaciens from Sugarcane Molasses through Microbial Fermentation. Sustainability, 2022, 14, 7400.	3.2	15
15	Enhanced biohydrogen production from sugar industry effluent using nickel oxide and cobalt oxide as cathode nanocatalysts in microbial electrolysis cell. International Journal of Energy Research, 2021, 45, 17431-17439.	4.5	12
16	Bioelectricity generation and analysis of anode biofilm metabolites from septic tank wastewater in microbial fuel cells. International Journal of Energy Research, 2021, 45, 17244-17258.	4.5	10
17	Efficacy of chemical factors on production and extraction of biodiesel by microalgae. International Journal of Energy Research, 2021, 45, 17080-17093.	4.5	9
18	Dark fermentative biohydrogen production from rice mill wastewater. International Journal of Energy Research, 2021, 45, 17233-17243.	4.5	16

#	ARTICLE	IF	CITATIONS
19	Dark fermentative biohydrogen production by <i>Acinetobacter junii</i> -AH4 utilizing various industry wastewaters. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11297-11304.	7.1	21
20	Impact of abiotic factors on biodiesel production by microalgae. <i>Fuel</i> , 2021, 284, 118962.	6.4	45
21	Antagonists and defense mechanisms of entomopathogenic nematodes and their mutualistic bacteria. <i>Biological Control</i> , 2021, 152, 104452.	3.0	15
22	A realistic scenario on microalgae based biodiesel production: Third generation biofuel. <i>Fuel</i> , 2021, 284, 118965.	6.4	97
23	Enhancement of biobutanol production using mixotrophic culture of <i>Oscillatoria</i> sp. in cheese whey water. <i>Fuel</i> , 2021, 284, 119008.	6.4	19
24	Simultaneous bioelectricity generation and water desalination using <i>Oscillatoria</i> sp. as biocatalyst in photosynthetic microbial desalination cell. <i>Science of the Total Environment</i> , 2021, 754, 142215.	8.0	34
25	Biohythane production from organic waste: Recent advancements, technical bottlenecks and prospects. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11201-11216.	7.1	22
26	Effect of C/N substrates for enhanced extracellular polymeric substances (EPS) production and Poly Cyclic Aromatic Hydrocarbons (PAHs) degradation. <i>Environmental Pollution</i> , 2021, 275, 116035.	7.5	62
27	Extraction of microplastics from commonly used sea salts in India and their toxicological evaluation. <i>Chemosphere</i> , 2021, 263, 128181.	8.2	59
28	In situ conservation of endangered tree species (<i>Elaeocarpus venustus</i> Bedd.) inhabited in Agasthiyamalai Biosphere Reserve, Southern Western Ghats, India. <i>Environmental Science and Pollution Research</i> , 2021, 28, 33958-33966.	5.3	1
29	Studies on the influence of natural resource utilization by humans on foraging behavior of honey bees at rural ecosystems. <i>Environmental Science and Pollution Research</i> , 2021, 28, 33942-33956.	5.3	0
30	Bioelectricity generation by natural microflora of septic tank wastewater (STWW) and biodegradation of persistent petrogenic pollutants by basidiomycetes fungi: An integrated microbial fuel cell system. <i>Journal of Hazardous Materials</i> , 2021, 412, 125228.	12.4	22
31	A critical review on different harvesting techniques for algal based biodiesel production. <i>Science of the Total Environment</i> , 2021, 780, 146467.	8.0	48
32	Production and characterization of biodegradable polyhydroxybutyrate by <i>Micrococcus luteus</i> isolated from marine environment. <i>International Journal of Biological Macromolecules</i> , 2021, 186, 125-134.	7.5	10
33	A crucial review on polycyclic aromatic Hydrocarbons - Environmental occurrence and strategies for microbial degradation. <i>Chemosphere</i> , 2021, 280, 130608.	8.2	144
34	Particle size influence on the composition of sugars in corncob hemicellulose hydrolysate for xylose fermentation by <i>Meyerozyma caribbica</i> . <i>Bioresource Technology</i> , 2021, 340, 125677.	9.6	12
35	Protective efficacy of <i>Capsicum frutescens</i> fruits in pancreatic, hepatic and renal cell injury and their attenuation of oxidative stress in diabetic Wistar rats. <i>Journal of Taibah University for Science</i> , 2021, 15, 1232-1243.	2.5	4
36	Simultaneous biohydrogen (H ₂) and bioplastic (poly- β -hydroxybutyrate-PHB) productions under dark, photo, and subsequent dark and photo fermentation utilizing various wastes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5840-5853.	7.1	70

#	ARTICLE	IF	CITATIONS
37	Zinc based iron mixed oxide catalyst for biodiesel production from <i>Enteromorpha intestinalis</i> , <i>Caulerpa racemosa</i> and <i>Hypnea musciformis</i> and antibiofilm analysis using leftover catalyst after transesterification. <i>Journal of King Saud University - Science</i> , 2020, 32, 1604-1611.	3.5	6
38	Integrated approach: Al ₂ O ₃ -CaO nanocatalytic biodiesel production and antibacterial potential silver nanoparticle synthesis from <i>Petalium murex</i> extract. <i>Journal of King Saud University - Science</i> , 2020, 32, 1503-1509.	3.5	14
39	Evaluation of antidiabetic activity of <i>Pleurotus pulmonarius</i> against streptozotocin-nicotinamide induced diabetic wistar albino rats. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 913-924.	3.8	32
40	Evaluation of Proximate Composition, Antioxidant Properties, and Phylogenetic Analysis of Two Edible Seaweeds. <i>Smart Science</i> , 2020, 8, 95-100.	3.2	5
41	Bioelectricity generation using iron(II) molybdate nanocatalyst coated anode during treatment of sugar wastewater in microbial fuel cell. <i>Fuel</i> , 2020, 277, 118119.	6.4	33
42	Mushroom-Derived Carbon Dots for Toxic Metal Ion Detection and as Antibacterial and Anticancer Agents. <i>ACS Applied Nano Materials</i> , 2020, 3, 5910-5919.	5.0	146
43	Supertough Poly(lactic acid) and Sustainable Elastomer Blends Compatibilized by PLLA- <i>b</i> -PMMA Block Copolymers as Effective A- <i>b</i> -C-Type Compatibilizers. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13956-13968.	3.7	18
44	In silico and in vitro comparison of nicotinamide adenine dinucleotide phosphate dependent xylose reductase <i>rossman</i> fold in <i>Debaryomycetaceae</i> yeast family. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101508.	3.1	1
45	Fermentative hydrogen production and bioelectricity generation from food based industrial waste: An integrative approach. <i>Bioresource Technology</i> , 2020, 310, 123447.	9.6	27
46	Optimization of media components and culture conditions for polyhydroxyalkanoates production by <i>Bacillus megaterium</i> . <i>Fuel</i> , 2020, 271, 117522.	6.4	49
47	Synthetic, Natural Derived Lipid Nanoparticles and Polymeric Nanoparticles Drug Delivery Applications. <i>Engineering Materials</i> , 2020, , 147-165.	0.6	2
48	An Overview of Nanotoxicological Effects Towards Plants, Animals, Microorganisms and Environment. <i>Engineering Materials</i> , 2020, , 113-146.	0.6	1
49	Marine Microbial Pharmacognosy: Prospects and Perspectives. , 2020, , 89-110.		1
50	Biodiesel production from <i>Ulva linza</i> , <i>Ulva tubulosa</i> , <i>Ulva fasciata</i> , <i>Ulva rigida</i> , <i>Ulva reticulata</i> by using Mn ₂ ZnO ₄ heterogeneous nanocatalysts. <i>Fuel</i> , 2019, 255, 115744.	6.4	17
51	Thermal-chemical and biodegradation behaviour of alginic acid treated flax fibres/ poly(hydroxybutyrate-co-valerate) PHBV green composites in compost medium. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101394.	3.1	30
52	Enhanced microbial biodiesel production from lignocellulosic hydrolysates using yeast isolates. <i>Fuel</i> , 2019, 256, 115932.	6.4	40
53	Comparative study on <i>Cronobacter sakazakii</i> and <i>Pseudomonas otitidis</i> isolated from septic tank wastewater in microbial fuel cell for bioelectricity generation. <i>Fuel</i> , 2019, 248, 47-55.	6.4	40
54	Environmental friendly synthesis of TiO ₂ -ZnO nanocomposite catalyst and silver nanomaterials for the enhanced production of biodiesel from <i>Ulva lactuca</i> seaweed and potential antimicrobial properties against the microbial pathogens. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 193, 118-130.	3.8	68

#	ARTICLE	IF	CITATIONS
55	Anaerobic Process for Biohydrogen Production using Keratin Degraded Effluent. Journal of Pure and Applied Microbiology, 2019, 13, 1135-1143.	0.9	6
56	Applications of microalgal paste and powder as food and feed: An update using text mining tool. Beni-Suef University Journal of Basic and Applied Sciences, 2018, 7, 740-747.	2.0	49
57	Biopolymer Synthesis and Biodegradation. , 2018, , 399-421.		1
58	Exploring multi potential uses of marine bacteria; an integrated approach for PHB production, PAHs and polyethylene biodegradation. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 55-65.	3.8	62
59	Comparison of integrated sustainable biodiesel and antibacterial nano silver production by microalgal and yeast isolates. Journal of Photochemistry and Photobiology B: Biology, 2018, 186, 232-242.	3.8	29
60	Size dependent magnetic and antibacterial properties of solvothermally synthesized cuprous oxide (Cu ₂ O) nanocubes. Journal of Materials Science: Materials in Electronics, 2018, 29, 17622-17629.	2.2	24
61	Studies on the diversity of macrofungus in Kodaikanal region of Western Ghats, Tamil Nadu, India. Biodiversitas, 2018, 19, 2283-2293.	0.6	3
62	Optimization (Substrate and pH) and Anaerobic Fermentative Hydrogen Production by Various Industrial Wastes Isolates Utilizing Biscuit Industry Waste as Substrate. Journal of Pure and Applied Microbiology, 2018, 12, 1587-1595.	0.9	7
63	Acinetobacter junii AH4-A Potential Strain for Bio-hydrogen Production from Dairy Industry Anaerobic Sludge. Journal of Pure and Applied Microbiology, 2018, 12, 1761-1769.	0.9	11
64	ANTIMICROBIAL ANALYSIS OF SCHIFF BASE LIGANDS PYRAZOLE AND DIKETONE METAL COMPLEX AGAINST PATHOGENIC ORGANISMS.. International Journal of Advanced Research, 2017, 5, 2656-2663.	0.0	5
65	Campus-Wide Floristic Diversity of Medicinal Plants in Indian Institute of Technology-Madras (IIT-M), Chennai. American Journal of Plant Sciences, 2017, 08, 2995-3012.	0.8	2
66	Biomedical Applications of Polyhydroxyalkanoates. Current Trends in Biomedical Engineering & Biosciences, 2017, 3, .	0.2	0
67	Polycyclic Aromatic Hydrocarbons (PAHs) Biodegradation: Role of lignolytic enzymes. , 2016, , .		0
68	RSM Based Optimization of Bioethanol Production by Zymomonas Mobilis using Orange Waste and Mahula Flower as Substrate. , 2016, , .		0
69	Biological corrosion inhibition of steel alloy by pani nano fiber. African Journal of Microbiology Research, 2015, 9, 886-891.	0.4	0
70	Comparative studies on lignin and polycyclic aromatic hydrocarbons degradation by basidiomycetes fungi. Bioresource Technology, 2011, 102, 8063-8070.	9.6	63
71	Microbial production of poly- β -hydroxybutyrate by marine microbes isolated from various marine environments. Bioresource Technology, 2009, 100, 2320-2323.	9.6	60
72	Polycyclic Aromatic Hydrocarbons (PAHs) Biodegradation by Basidiomycetes Fungi, Pseudomonas Isolate, and Their Cocultures: Comparative In Vivo and In Silico Approach. Applied Biochemistry and Biotechnology, 2008, 151, 132-142.	2.9	102

#	ARTICLE	IF	CITATIONS
73	Simultaneous saccharification and fermentation of cassava waste for ethanol production. Biofuel Research Journal, 0, , 196-202.	13.3	25