

# Alagarsamy Arun

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,850  
citations

279778

23  
h-index

289230

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 $\alpha$ -tetra- <i>N</i> -Derived Cobalt(III) Complex with a <i>N,N</i> -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        |

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|----|---|------|-----------|
| 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.) habitated 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 <sub>2</sub> ) and bioplastic (poly- $\beta$ -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        |

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|----|--|-----|-----------|
| 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 <sub>2</sub> O <sub>3</sub> -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 &amp; 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 rossman fold in Debaryomycetaceae 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 <sub>2</sub> ZnO <sub>4</sub> heterogenous 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 <sub>2</sub> -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        |

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|----|--|-----|-----------|
| 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 <sub>2</sub> 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- $\beta$ -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       |

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