

## Publications 2021

1. Abeykoon, A.M.C.N., Herath, H.M.T. & Jayasinghe, M. A. (2021). *In-vitro Analysis of Trypsin and Alpha – Amylase Inhibitory Activities in Selected Legume Varieties in Sri Lanka.* *Asian Food Science Journal* 20(1):1-19.
2. Amarasiri, S.S., Attanayake, A.P., Arawwawala, L.D.A.M., Jayatilaka, K.A.P.W. & Mudduwa, L.K.B. (2021). Nephroprotective activity of *Vetiveria zizanioides* (L) Nash supplement in doxorubicin induced nephrotoxicity model of Wistar rats. *Journal of Food Bio-Chemistry* 45(10).
3. Amunugoda, P.N.R.J., De Silva, A.B.G.C.J., Gunawardane, K.V.T., Pitipanaarachchi, R., Silva, A.M.C.U. & Thilina, D.G.W. (2020). Spray Drying of Ginger and Physical and Micro Powder – An Advance Food Material. *Frontiers in Advanced Materials Research*:9-17.
4. Amunugoda, P.N.R.J., Wilson, W.R.S., Senanayake, S.A.M.A.N.S., Kulathunaga, K.D. G. (2021). Performance of Prototype Solar Tunnel Drier developed by University of Hohenheim under Local Environmental conditions in Sri Lanka. *Front Adv Mat Res*: 44-55.
5. Dilhara, D.G.N, Dharmadasa, R.M., Abeysinghe, D.C., Wijekara, R.G.S., Prathapasinghe, G. & Somea T. (2021). Ethnopharmacological Survey on Medicinal Plants Used for Cosmetic Treatments in Traditional and Ayurveda Systems of Medicine in Sri Lanka. *Evidence-Based Complementary and Alternative Medicine*. 5599654 | <https://doi.org/10.1155/2021/5599654>.
6. De Costa, M.D.R., De Silva, R.C.L., Nayanajith, L.D.C., Colombage, H.C.D.P., Milani, M.D.Y., Rosa, S.R.D. & Kottekoda, I.R.M. (2021). Electrochemical performance and material characterization of reduced graphemeoxide (rGO) / titanium dioxide (TiO<sub>2</sub>) composite as electrodes for supercapacitors. *Sri Lankan Journal of Physics* 22(2):1–12.
7. De Silva, G.B.V.U., Dharmadasa, R.M., Senanayake, R.A.S.P. & Lintha, A. (2021). Selection of Superior Quality *Cymbopogon nardus* (L.) Rendle (Poaceae) Populations by Means of Quantity and Quality of Essential Oils. *World Journal of Agricultural Research* 9(1): 1-8.
8. Divisekera, D.M.W.D., Madage, S.S.K., Jayawardana, T.M.D.A., Medis, W.U.D., Indunil, R.K.P.N. & Gooneratne, J. (2021). Pathogenic and spoilage causing microorganisms associated with traditional seafood product Jaadi manufactured in the southern and western coastal belt of Sri Lanka. *Asian Food Science Journal* 20(10):25-35.

9. Divisekera, D.M.W.D., Samarasekera, J.K.R.R., Hettiarachchi, C., Maharajan, R., Gooneratne, J., Choudhary, M.I., Gopalakrishnan, S., Wahab, A.T. & Mazumdar, S.D. (2021). Oral toxicity evaluation of probiotic strains isolated from Finger millet [*Eleusine coracana* (L.) Gaertn.] in Wistar rat models (in vivo). *Archives of Ecotoxicology* 3(3): 91-102.
10. Gamage, D.G.N.D., Dharmadasa, R.M., Abeysinghe, D.C., Wijesekara, R.G.S., Prathapasinghe, G.A. & Takao, S. (2021). Assessment of Phytochemical Contents and Total Antioxidant Capacity of Five Medicinal Plants with Cosmetic Potential under Three Different Drying Methods. *World Journal of Agricultural Research* 9(1): 24-28.
11. Gamage, D.G.N.D., Dharmadasa, R.M., Abeysinghe, D.C., Wijesekara, R.G.S., Prathapasinghe, G.A. & Takao, S. (2021). Effect of Drying Methods and Type of Packaging Materials on Phytochemical Content and Total Antioxidant Capacity of Five Medicinal Plants with Cosmetic Potential over Three Months Storage at Ambient *World Journal of Agricultural Research* 9(2):73-79.
12. Gamage, D.G.N.D., Dharmadasa, R.M., Abeysinghe, D.C., Wijesekara, R.G.S., Prathapasinghe, G.A. & Takao, S. (2021). Emerging herbal cosmetic production in Sri Lanka: Identifying possible interventions for the development of the herbal cosmetic industry. *Scientifica* 10.
13. Gunathilaka, M.D.T.L., Dilrangi, K.H., Ranasinghe, P., Samarakoon, K.W. & Peiris, L.D.C. (2021). Mechanistic Insight into Apoptotic Induction in Human Rhabdomyosarcoma and Breast Adenocarcinoma Cells by *Chnoospora minima*: A Sri Lankan Brown Seaweed. *Pharmaceuticals* 14:1154.
14. Hewageegana, H.G.S.P., Hewageegana, A.U. & Arawwawala, L.D.A.M. (2021). Purification, detoxification and incineration methods of minerals and metals in Traditional medicine. *Evidence Based Complementary and Alternative Medicine* <https://doi.org/10.1155/2021/6634553>
15. Jayasinghe, M.D. & Hewajulige, I.G.N. (2021). King coconut - The golden nut of Sri Lanka. *Sri Lanka Journal of Food and Agriculture* 7(1): 9-12.
16. Jayasuriya, W.J.A.B.N., Jayaweera, N.D., Adurapotha, H., Meedin, F.D., Uluwaduge, D.I. & Arawwawala, L.D.A.M. (2021). Antimicrobial effect of polyphenols enriched fractions of *Moringa oleifera* Lam. Leaves at the flowering stage against microbial strains causing oral and wound infections. *Pharmaceutical Journal of Sri Lanka* 11(1): 27 – 40.
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- Gaertn.) flour incorporated biscuits. *Food Science and Technology International* 28(5): 430-439.
18. Jayawardana, S. A. S., Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M., Gooneratne, J., Choudhary, M. I., Jabeen, A. (2021). Anti-inflammatory and antioxidant properties of finger millet (*Eleusine coracana* (L.) Gaertn.) varieties cultivated in Sri Lanka. *BioMed Research International*:1-10.
  19. Jayaweera, V., Liyanage, W.L.N.C., Silva, R.C.L.D., Rosa, S.R.D. & Kotegoda, I.R.M., (2021). Reduced Graphene Oxide-sno<sub>2</sub>-Polyaniline Ternary Composite for High-Performance Supercapacitors. *Material Science Research India* 18(2):206-216.
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  21. .Karunaratne, T.D.N., Arawwawala, L.D.A.M., Sugatharatana, K., Ariyawansa, H.S. & De Silva, H.A. (2021). In vitro antioxidant activities of poly-herbal preparation: Sarasvatha Choorna. *Free Radicals and Antioxidants* 11(2):35-37.
  22. Kulatunga, W.M.S.S.K. & Arawwawala, L.D.A.M. (2021). Chemical analysis of anti-venom herbal paste use in Sri Lanka. *South Asian Research Journal of Natural Products* 4(4): 1-7.
  23. Kulatunga, W.M.S.S.K., Arawwawala, L.D.A.M. & Herath, H.M.D.R. (2021). Chemical analysis of a traditional herbal analysis use in Sri Lanka for snake bite treatments. *Asian Journal of Applied Chemistry Research* 10 (3-4): 6-11.
  24. Liang, Y.D.Y., Nilusha, T., Ritigala, R.T. & Wei, Y. (2021). Prediction of the Long-Term Effect of Iron on Methane Yield in an Anaerobic Membrane Bioreactor Using Bayesian Network Meta-Analysis. *Membranes* 11: 100.
  25. Liyanaarachchi, G., Samarasekara, R., Mahanama, K. R. R. & Hemalal, K. D. P. (2021). Bioactive constituents isolated from the Sri Lankan endemic plant *Artocarpus nobilis* and their potential to use in novel cosmeceuticals. *phytochemistry letters* 184.
  26. Liyanaarachchi, G., Samarasekara, R., Mahanama, K. R. R. & Hemalal, K. D. P. (2021). In vitro anti-inflammatory, anti-cholinesterase and anti-diabetic activity of *Artocarpus nobilis*, *Artocarpus heterophyllus* and *Artocarpus altilis*. *Journal of Applied Research on Medicinal and Aromatic Plants* 25:1-3.

27. Mapalagama, O.V., Amunugoda, P.N.R.J. & Ranaweera, K.K.D.S.(2021). Decontamination of pineapple (*Ananas cosmosus*) juice using ozone as a non-thermal sterilization method. *Future of Food: Journal on Food, Agriculture and Society* 9 (5).
28. Nandakumar, J., Prabagar, S. & Thuraisingam, S. (2021). Qualitative Survey on Medicinal Plants of Jaffna Peninsula, Sri Lanka, Identification of Endangered Species and Concerns for Their Conservation World. *Journal of Agricultural Sciences* 17 (5): 409-417.
29. Navoda, N.P.G.D., Samaranayake, M.D.W., Liyanage, S.L., Herath, H.M.T. & Jayasinghe, J.M.J.K. (2021). Determination of Functional Properties of Sri Lankan Ambarella (*Spondias dulcis* Forst. syn. *Spondias cytherea* Sonn.) Fruit and Development of Vacuum Dried Ambarella Fruit Powder and Incorporated Soup Mix. *Asian Food Science Journal* 20(11):113-122.
30. Nilusha, R.T. & Wei, Y. (2021). New Insights into the Microbial Diversity of Cake Layer in Yttria Composite Ceramic Tubular Membrane in an Anaerobic Membrane Bioreactor (AnMBR). *Membranes* 11:108.
31. Nilusha, R.T., Yu, D., Zhang, J., Abeynayaka, A. & Wei, Y. (2021). Insights into the ambient temperature startup of an anaerobic ceramic membrane bioreactor with thermally hydrolyzed inoculum for domestic wastewater treatment. *Case Studies in Chemical and Environmental Engineering* 4.
32. Perera, D.S.M., De Silva, R.C.L., Nayanajith, L.D.C., Colombage, H.C.D.P., Suresh, T.S., Abeysekera, W.P.K.M. & Kottekoda, I.R.M. (2021). Anti-Inflammatory and Antioxidant Properties of Coffea Arabica/Reduced Graphene Oxide Nanocomposite prepared by green synthesis. *Material Science Research India* 18(3):305-317.
33. Prabagar, S., Dharmadasa, R.M., Lintha, A., & Thuraisingam, S. (2021). Accumulation of heavy metals in grape fruit, leaves, soil and water: A study of influential factors and evaluating ecological risks in Jaffna. *Sri Lanka Environmental and Sustainability Indicators* 12(9).
34. Premasiri, D.L.D.A.S., Rajawardana, D.U., Mudannayake, D.C. & Hewajulige, I.G.N. (2021). Isolation, characterization and identification of industrially beneficial probiotic lactic acid bacteria from goat milk. *The Journal of Agricultural Sciences - Sri Lanka* 16 (2):369-382.
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36. Silva, P.A.S.N., Arawwawala, L.D.A.M., Kumari, M.W.S.J. & Galappatthy, P. (2021). Effect of curcumin on diabetes and its complications: A mini review. *Journal of Ayurvedic Herbal Medicine* 7(2): 109 – 118. Thilakarathna, G.C., Navaratne, S.B., Wickramasinghe, S.B.I., Ranasinghe, P., Samarkoon, S.R. & Samarasekera, J.K.R.R. (2021).
37. The effect of Salacia reticulata, Syzygium cumini, Artocarpus heterophyllus, and Cassia auriculata on controlling the rapid formation of advanced glycation end-products. *Journal of Ayurveda and Integrative medicine* 12:261-268.
38. Viyanage, M.P., Manage, T.R.T., De Silva, R.C.L., Nayanajith, L.D.C., Milani, M.Y.D. & Kotegoda, I.R.M. (2021). Mechanical property evaluation of natural rubber/ vein graphite composites. *Sri Lankan Journal of Physics* 22(1):29.
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42. Wijayawardhana, N.M., Cooray, M.M.D.U., Meedin, D.F.D., Uluwaduge, D.I., Arawwawala, L.D.A.M., & Jayasuriya, W.J.A.B.N. (2021). Antimicrobial activity of a combination of three natural plant extracts and development of a herbal soap. *Pharmaceutical Sciences Asia* 48(6): 523-534.