

List of Publications

2026

- ✚ **Vignesh A., Janani G (2026).** Ecological Footprint Assessment of a Higher Education Institution: A Case Study of NGM College, Pollachi, India for Environmental Sustainability and Policy Development. *Discover Sustainability*, **Impact Factor: 5.2; (Q1 Journal); (SCIE Indexed).**
- ✚ **Menaka C., and Vignesh A., (2026).** Comprehensive nutritional profiling and Phytochemical characterization of *Anredera cordifolia* leaves with insights into their therapeutic properties. *Biocatalysis and Agricultural Biotechnology*, **Impact Factor: 4.6; (Q1 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Thoufeeq Ahamed I., Aldosari FM., Albakri GS., Kumar Yadav K (2026).** Exploring the potential of essential oil from *Oxalis latifolia* leaves against the bacterial skin disease impetigo by *in vitro* and *in silico* approaches. **South African Journal of Botany** 190, 481-503. **Impact Factor: 3.1; (Q2 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Amal TC., Soltane R, Eltayeb LB., Kumar Yadav K (2026).** A review on functional foods regulate the gut microbiota and mast cell function in inflammatory bowel disease (IBD). **Probiotics and Antimicrobial Proteins. Impact Factor: 5.3; (Q1 Journal); (SCIE Indexed).**

2025

- ✚ **Vignesh A., Amal TC., Vasanth K (2025).** Exploring the impact of post-COVID-19 taste loss on food-related experiences, quality of life, coping strategies, and rehabilitation. **Discover Food** 5(159) 1-15. **Impact Factor: 3.6; (Q2 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Dharani K., Selvakumar S., Vasanth K (2025).** Phytochemical composition, *in vitro* cytotoxicity and *in silico* ADME/Tox analysis of the active compounds of *Oxalis latifolia* Kunth. extracts with promising anticancer potential. **3 Biotech** 15, 19. **Impact Factor: 3.1; (Q1 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Amal TC., Shanmugam A., Selvakumar S., Vasanth K (2025).** Effects of dietary approaches to prevent hypertension and enhance cardiovascular health. **Discover Food** 5(9) 1-19. **Impact Factor: 3.6; (Q2 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Menaka C., Amal TC., Selvakumar S., Vasanth K (2025)** Exploring the Dual Impact of Nanoparticles on Human Well-being: A Comprehensive Review of Risks and Benefits. **Next Nanotechnology**, 8, 100223. **Impact Factor: 3.7; (Q2 Journal); (Scopus Indexed).**
- ✚ **G.Sathiyaraj, M.Akilesh, A.Vignesh, K.Naveen Kumar, S.Gopinath, S.Mohanapriya, J.M.Malecki, K.Kadirvelu, R.Shankar & N.Dharmaraj (2025).** Benzothiazole-based Schiff base for sensing Ca²⁺ ions: Synthesis, DFT studies, toxicity evaluation in Zebrafish embryo and *in silico* analysis of MMP-9 inhibition. **Journal of Photochemistry and Photobiology A: Chemistry**, 158, 15985. **Impact Factor: 4.4; (Q1 Journal); (SCIE Indexed).**
- ✚ **C.Menaka, A. Logamadevi, A. Vignesh (2025).** Unveiling the socio-cultural practices of medicinal plants used by the ethnic community of Soliga tribes in Tamil Nadu, India. **Phytomedicine Plus**, 191, 100799. **(Q2 Journal); (Scopus Indexed).**
- ✚ **Sarvalingam A., Vignesh A., Varatharaju G., Murugan M (2025).** Phytochemical screening and potential of antimicrobial and anti-inflammatory activity of organic extract derived from *Tragia plukenetii* Radcl. Sm. **The Journal of Indian Botanical Society**, 104, 1-8. **(Scopus Indexed).**

2024

- ✚ **Vignesh A., Amal TC., Vasanth K (2024).** Food contaminants: Impact of food processing, challenges and mitigation strategies for food security. **Food Research International** 191, 114739 **Impact Factor: 8.8; (Q1 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Amal TC., Sarvalingam A., Vasanth K (2024).** A Review on the Influence of Nutraceuticals and Functional Foods on Health. **Food Chemistry Advances** 5, 100749. **(Q1 Journal); (Scopus Indexed).**
- ✚ **Vignesh A., Amal TC., Sivalingam R., Selvakumar S., Vasanth K (2024).** Unraveling the Impact of Nanopollution on Plant Metabolism and Ecosystem Dynamics. **Plant Physiology and Biochemistry** 210, 108598. **Impact Factor: 6.2; (Q1 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Amal TC., Kalaiyarasan J., Selvakumar S., Vasanth K (2025).** An effective bio-inspired synthesis of palladium nanoparticles using *Crateva religiosa* G.Forst. leaf extract: a multi-functional approach for environmental and biomedical applications. **Biomass Conversion and Biorefinery.** **Impact Factor: 4.3; (Q2 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Amal TC., Sivalingam R., Selvakumar S., Vasanth K (2024).** Influence of ecological factors on the phytochemical composition and bioactivity of *Berberis tinctoria* Lesch. wild edible fruits. **Biochemical Systematics and Ecology** 112, 104771. **Impact Factor: 2.2; (Q3 Journal); (SCIE Indexed).**
- ✚ **Vignesh A., Menaka C., Amal TC., Vasanth K (2024).** Plant ecosystems and sustainable development in the Western Ghats, India. **Journal of Ecology and Conservation** 2(1) 1-4.
- ✚ **Vignesh A., Amal TC., Vasanth K (2024).** An Investigation into the Impact of Millets on Global Health and Sustainability. **Journal of Nutraceuticals and Health** 2(1) 25-26.

2023

- ✚ **Vignesh A., Amal TC., Selvakumar S., Vasanth K (2023).** Unraveling the role of medicinal plants and Gut microbiota in colon cancer: Towards microbiota- based strategies for prevention and treatment. **Health Science Review** 9, 100115. **(Q2 Journal); (Scopus Indexed).**
- ✚ **Vignesh A., Amal TC., Selvakumar S & Vasanth K (2023).** Conservation linkages of endangered medicinal plant and exploration of phytochemicals, pharmaceutical screening and *in silico* validation of *in vivo*-wild and *in vitro*-regenerated plant *Boucerosia diffusa* Wight. **3 Biotech** 13(7), 1-22. **Impact Factor: 3.1; (Q1 Journal); (SCIE Indexed).**
- ✚ **Sathiyaraj G., Vignesh A., Priyanka K., Neethu KS., Badhmapriya D., Preethi K., Dharmaraj N., Kaveri MV (2023).** Construction of 3-amino-9-ethylcarbazole scaffold for multifunctional applications: Chemosensor for copper(II) ions along with antibacterial, antioxidant and anti-inflammatory activity, **Results in Chemistry** 6, 101141. **Impact Factor: 5.8; (Q2 Journal); (SCIE Indexed).**
- ✚ **Raja K., Vignesh A., Lavanya P., Ravi M., Selvakumar S & Vasanth K (2023).** A New organosulfur compound identified from *Striga angustifolia* (D. Don) C.J. Saldanha inhibits lung cancer growth and induces apoptosis via p53/mTOR signaling pathway. **Applied Biochemistry and Biotechnology** 5, 1-21. **Impact Factor: 3.5; (Q2 Journal); (SCIE Indexed).**
- ✚ **Dipshika N., Vignesh A., Raja K., Selvakumar S & Vasanth K (2023).** Exploration of phytochemicals and probing potential effects of *Priva cordifolia* active extract on PACAP 38 and its nociceptor in the human trigeminovascular system. **3 Biotech** 13(39) 1-14. **Impact Factor: 3.1; (Q1 Journal); (SCIE Indexed).**
- ✚ **Janani K., Vignesh A., Pradeepa Veerakumari K., Vasanth K & Rakkiyappan R (2023).** Selecting the soil suitable for plant breeding and identifying the most endemic plant species in Nilgiris using the interval type 2 q-rung orthopair fuzzy Bonferroni mean operator. **Computational and Applied Mathematics** 42(55) 1-49. **Impact Factor: 2.4; (Q2 Journal); (SCIE Indexed).**

2022

- ✚ **Vignesh A., Selvakumar S & Vasanth K (2022).** Comparative LC-MS analysis of bioactive compounds, antioxidants and antibacterial activity from leaf and callus extracts of *Saraca asoca*. **Phytomedicine Plus** 2(1) 100167. **(Q2 Journal); (Scopus Indexed).**
- ✚ **Vignesh A., Sivalingam R & Vasanth K (2022).** Diversity of Woody Flora and Physico-chemical attributes of soil in the Nilgiri Hills, Tamil Nadu, India. **Proceedings of the national academy of sciences, India section b: biological sciences** 92(1): 95-103. **(Q2 Journal); (Scopus Indexed).**
- ✚ **Vignesh A., Sivalingam R., Selvakumar S & Vasanth K (2022).** A review on ethnomedicinal and phytopharmacological potential of traditionally wild and endemic plant *Berberis tinctoria* Leach. **Thai Journal of Pharmaceutical Sciences** 46(2): 137-148. **(Q3 Journal); (Scopus Indexed).**

2021

- ✚ **Vignesh A., Selvakumar S & Vasanth K (2021).** Green synthesis and characterization of zinc oxide nanoparticles using *Berberis tinctoria* Lesch. leaves and fruits extract of multi-biological applications. **Nanomedecine Research Journal** 6(2): 128-147. **(Q3 Journal); (Scopus Indexed).**
- ✚ **Vignesh A., Pradeepa Veerakumari, K., Selvakumar, S., Rakkiyappan, R & Vasanth, K (2021).** Nutritional assessment, antioxidant, anti-inflammatory and antidiabetic potential of traditionally used wild plant, *Berberis tinctoria* Lesch. **Trends in Phytochemical Research**, 5(2), 71-92. **(Q3 Journal); (Scopus Indexed).**

2014

- ✚ **Sivakumar S.R & Vignesh A (2014).** *In vitro* activity of seaweed extracts collected from Gulf of Mannar Coast Islands, Tamil Nadu on clinical isolates. **World Journal of Fish and Marine Sciences** 6 (6), 504-508.

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