**Individual Biodata**



Name : S. Aruna

Designation : Assistant Professor

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Qualification : Ph.D

Field of Specialization :

Major : Aquatic Environment Management

Specializing field : Nutrient Management

Experience (in years) : 12 years

Current projects : (Please provide max 5)

| Sl.No. | Title of the Project | Year | PI & Co- PI of the Project | Funds (in Rs) | Funding Agency |
|---|---|---|---|---|---|
| 1. | TANII scheme Artificial Coral Reef / Live Rock (ACR / LR) and Fish Aggregating Artificial Reef (FAAR) to Enhance Fish Diversity and Biomass in the Sea Near Pulicat Lake Towards Fishing Pressure Reduction and Livelihood Improvement of Fisherfolk in the Lake Region | 2021 | PI | 430.66 | TANII |

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|---|---|---|---|---|---|
| 2. | Study on the fishery resources and its productivity to assess the ecosystem services in the critical ecosystems along East Coast of India | 2022 | PI | 123.91 | NCCR |
| 3. | Socio – economic and environmental impact study of shrimp farms and Hatcheries in selected districts of Tamil Nadu | 2021 | Co-PI | 14.98 | RCF |
| 3. | Self finance scheme for the water quality testing laboratory | 2016 | PI | 0.4 | TNJFU |

Completed projects : (Please provide max 10)

| Sl.No. | Title of the Project | Year | PI & Co- PI of the Project | Funds (in Rs) | Funding Agency |
|---|---|---|---|---|---|
| 1. | The effect of ionic concentration of low saline waters on growth characteristics of *Litopenaeus vannamei* | 2016 | PI | - | TNJFU |
| 2. | Plankton diversity in pulicat lake of TamilNadu region | 2017 | PI | - | TNJFU |

Research publications (max – 10) :
(You may provide your recent 10 best publications in bibliography format)

1. Mangesh M Bhosale, Felix, S, Mahadevi, S, **Aruna**, S, Cheryl Antony and Gopalakannan, A. 2017. Induced breeding of African Jewelfish *Hemichromis bimaculatus* (Gill, 1862) using gonadotropic signaling molecular analogue WOVA-FH. *J. Entomol. Zool. Stud.* 5(6): 2547-2551

2. S Felix, MM Bhosale, CBT Rajagopalsamy, S Aruna. 2020.RAS based culture system for continuous production of Rotifers (*Brachionus calyciflorus*) in mass. *Indian J. Animal Sci.* 90 (6): 954-959.
3. Mangesh M. Bhosale, Felix, S and **Aruna, S.** Mass production of rotifers (*Brachionus calyciflorus*) in outdoor culture system for aquariculture. 2020. *Journal of Food, Agriculture & Environment Vol. 1 8 ( 2 ) : 59-63*
4. Keerthivarman G. Subramanian, Manikandavelu Dhanushkodi, **Aruna Satyapriyan,** Muralidharan Nagarajan, Govarthanan Muthusamy, 2023. Deciphering Microalgal Diversity of Peculiar Lentic Ecosystem in Chennai, South India: A Way Towards Sustainability. *Molecular Biotechnology.* https://doi.org/10.1007/s12033-023-00825-9.
5. Keerthivarman G. Subramanian, Manikandavelu Dhanushkodi, **Aruna Satyapriyan,** Muralidharan Nagarajan, P. Muthuvinayagam, Moulitharan Nallathambi, Elangovan Prabu, Dhinesh Rajendiran, Govarthanan Muthusamy, 2023. An Intensive Study on Algal Diversity in the Ancient Man-Made Aquatic Ecosystem of Tiruvallur, South India: Exploration for Sustainable Development. *Molecular Biotechnology.* https://doi.org/10.1007/s12033-023-00817-9.

6. Keerthivarman G. Subramanian, Manikandavelu Dhanushkodi, **Aruna Satyapriyan**, Muralidharan Nagarajan, Meivelu Moovendhan, P. Muthuvinayagam, Velmurugan Ragavan, Pavinkumar P and Dhinesh Rajendiran , 2024. Assessment of algal diversity and carbon sequestration potential of *Arthrospira platensis* and *Scenedesmus vacuolatus* isolated from the urban gravel pit lake, South India-a biomass production approach from the noval areas. *Biomass Conversion and Biorefinery*. https://doi.org/10.1007/s13399-024-05704-0.
7. Rajendran Dhinesh, **Satyapriyan Aruna**, D.Manikandavelu, Krishnan Ravaneswaran, Subramoniapillai Sethulekhsmi Kirthiga, Khalid A. Al-Ghanim. Subramanian G. Keerthivarman and Chinnaperumal Kamaraj, 2024. Aquatic weed *Eichhornia crassipes* as sustainable feedstocks for biochar production: A potential of ammonium adsorption and kinetic models. *Journal of Cleaner Production.*

8. Rajendran Dhinesh, **Satyapriyan Aruna**, D.Manikandavelu, Krishnan Ravaneswaran, Subramoniapillai Sethulekhsmi Kirthiga, Khalid A. Al-Ghanim and Chinnaperumal Kamaraj, 2024. Naturally derived organic biochar as an alternative to commercially activated carbon in the oxygen removal of seafood processing wastewater. *Journal of Chemical Technology and Biotechnology*.

9. **S. Aruna**, D. Manikandavelu,, A. Uma, Cheryl Antony and N. Jayakumar, 2023. Isolation of Phosphorus Solubilizing Bacteria from Mangrove

Rhizospheric Sediment and its Potential Application in Aquaculture. *Indian Journal of Animal research*. Vol. 1-8.10.18805/IJAR.B-5228.

10. **S. Aruna,** D. Manikandavelu, A. Uma, Cheryl Antony and N. Jayakumar, 2023. Assessment of Phosphorus Mobilizing Capacity of *Bacillus* spp. Isolated from Mangrove Rhizospheric Sediment and its Potential Application in Aquaculture. *Indian Journal of Animal research*. Vol. 1-6. 10.18805/IJAR.B-5172

Honours and Awards
(Including patents)