Individual Biodata



Name : T. Anand

Designation : Associate Professor and Head

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Qualification : M.FSc., PhD.

Field of Specialization : Aquatic Environment Management

Major : Bioflocs systems, Shrimp farming, Water quality management and Disease diagnosis in shrimp farming

Specializing field : Carbon amendments, water quality, nutrient dynamics in Bioflocs and Periphyton systems, Metagenomics of bioflocs systems, Cluster based shrimp farming practices with Bio-security measures

Experience (in years) : Professional experience – 25 years
Teaching, Research & Extension – 15 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	Effects of Mineral application on water quality, nutrient dynamics and growth characteristics of *Penaeus vannamei* culture systems at different salinities	2024	PI	1.00	VISHARAA BIOTECH, Chennai

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	E-fish health surveillance and monitoring network to improve fisheries production in Tamilnadu	2017 - 2020	Co-Principal investigator	With a financial outlay of 590.40 lakhs	Tamilnadu Innovation Initiatives (TANII)

2.	Development, demonstration and dissemination of solar energy operated aerators in shrimp farms	2019-2020	Co-Principal Investigator	Rs.21.25 lakhs	ICAR Extramural project

3.	Establishment of Fish and Shell Fish Health Certification and Disease Surveillance Laboratories in TamilNadu for Enhancement of Aquaculture Production	2016 – 2018	Co-Principal investigator	Rs. 491.075 lakhs	National Agriculture Development Programme (NADP)
4.	Dissemination of Better Management Practices and Biofloc Technology to enhance SPF *Litopenaeus vannamei* and *Penaeus monodon* shrimp production in Tamilnadu	2011- 2012	Co-Principal Investigator	21.22 lakhs	NADP
5.	Identifying suitable carbon source to augment the formation of bioflocs at farmers' pond level in *Litopenaeus vannamei* intensive culture systems in Sirkali taluk, Nagapattinam district	2 Years 28.03.2013 to31.03.2015	Principal investigator	2.1 lakhs	Corpus fund

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

1. **Anand, T**., A.Srinivasan, P. Padmavathy, P.Jawahar and J. Stephen SampathKumar (2021). Structure, proximate composition, nutrient dynamics and growth characteristics of *Penaeus vannamei* in indoor biofloc systems with three different salinities and carbon sources, Israeli Journal of Aquaculture -Bamidgeh, Vol. 73, pp 1-16. (NAAS 6.28).
2. **T. Anand**, A. Srinivasan, P. Padmavathy, P. Jawahar, J. Stephen Sampathkumar (2021). Nursery rearing of *Penaeus vannamei* in biofloc systems with different salinities and organic carbon sources, Indian Journal of Animal Research, DOI: 10.18805/IJAR.B-4753. (NAAS 6.40)
3. **Theivasigamani Anand***, Arasan Srinivasan, Pandurengan Padmavathy, Paulraj Jawahar and J Stephen Sampathkumar (2020). Metagenomics of biofloc from *Penaeus vannamei* biofloc systems with different salinity and carbon sources. Published a Bio-project submitted to National Centre for Biotechnology Information, U.S. (NCBI), Accession: PRJNA663309 ID: 663309 - https://www.ncbi.nlm.nih.gov/Traces/study/?acc=PRJNA663309
4. Akalesh P., G., Jeyasekaran, R., Jeyashakilaa, **T., Anand**, L., Wilwet, N.,Pathaka, A.H.,Malini, N., Neethiselvan, (2020). Prevalence of antibiotic resistant *Salmonella* spp. strains in shrimp farm source waters of Nagapattinam region in South India. Marine Pollution Bulletin, 155 (2020) 111171
5. Santhana Kumar V, P. K. Pandey, Saurav Kumar, **T. Anand**, Boriah Suryakumar, Rathi Bhuvaneswari (2019). Effect of periphyton (aqua mat installation) in the profitability of semi-intensive shrimp culture systems. Indian Journal of Economics and Development. January 2019, Vol 7 (1), 1-9. (NAAS rating 4.82)

6. A. Rathipriya, **T. Anand**, A. Uma and K. Karal Marx (2019). Prevalence of Diseases caused by White Spot Virus and *Enterocytozoon Hepatopenaei* in *Penaeus vannamei* Shrimp Farms in Nagapattinam District, Tamil Nadu, India. In: Int.J.Curr.Microbiol.App.Sci (2019) 8(6): 2616-2622. (NAAS Rating 5.38)

7. Santhana kumar V.,Pandey P.K., **Anand., T**., Bhuvaneswari, G.R., Dhinakaran, A. and S.Kumar (2018). Biofloc improves water, effluent quality and growth parameters of *Penaeus vannamei* in an intensive culture system. J.Environ Manage., Mar;21;215., pp206-215. (NAAS rating 10.01)
8. S.Monikandon, Kesavan.D. and **T.Anand** (2018). Critical review on acclimatization approach for enhanced survival of shrimp post-larvae in grow-out ponds. In: International Journal of Science, Environment and Technology, Vol. 7, No 4, 2018, 1467 – 1471
9. Santhana Kumar, V., P.K. Pandey, **T. Anand**, Rathi Bhuvaneswari and Saurav Kumar (2017). Effect of periphyton (aqua mat) on water quality, nitrogen budget, microbial ecology, and growth parameters of *Litopenaeus vannamei* in a semi-intensive culture system In: Aquaculture (479), pp 240-249. (NAAS rating 7.83)
10. **Anand, T**., B. Gunalan, P. Padmavathy, V. Rani and C. Anand. 2014. Influence of CN ratios on the heterotrophic activity of model freshwater systems. Int. J. of Res. In Agrl. Sci. 1(1):5-15
11. **Anand, T**., B. Gunalan, P. Padmavathy, V. Rani and C. Anand. 2014. Influence of CN ratios on the heterotrophic activity of model brackish water systems Int. J. of Fisheries & Aq. Studies 1 (3)12-21
12. Velmurugan, P., A. Srinivasan, A. Athithan, P. Padmavathy, D. Manimegalai and **T. Anand**. 2014. Diversity and seasonal variations of plankton in coastal waters receiving salt pan effluents of Thoothukudi, South –east coast of India. Indian J.Fish. 61(4), pp 60-67.
13. Poonkodi, A., P. Padmavathy, A. Srinivasan, R. Jeya Shakila and **T. Anand**. 2016. Water quality characteristics of *Litopenaeus vannamei* shrimp culture systems in Thoothukudi District. J.Exp.zool.India, 19(1)195-200

Honors and Awards (Including patents)

Sl. No.	**Name of the Medal/ Award**	**Issuing rganization/ Body**	**Date of Receipt**	**Purpose**
1.	BEST RESERCH PAPER AWARD.	National Institute of Technology (NIT) Trichy	Nov 19-20 '2021	For Research Paper entitled "Analyzing the nutrient status in the shrimp farm waste sludge" presented in Virtual International Conference on "Environmentally Benign Processes, Products and Materials for Sustainable Ecosystem" EBPPM-2021
2.	Best Paper Award	Agricultural Scientific Tamil Society, New Delhi	Dec'20 & 21 2020	For presenting research paper in the 6th National Conference on Agricultural Scientific Tamil
3.	Appreciation Award	TNJFU, Nagapattinam	24th June 2019	For coordinating the Farmers' meet and farm tour at WAS-APA 2019 held at Chennai during 19th to 21st of June 2019
4.	Best paper in Fishery Science section	TNAU, Coimbatore	23.08.214	In First National Agriculture Scientific Tamil Conference – Presented a paper entitled "Vanami eral valarpil biofloc technology – a revolution in production"

Patents Published / filed /granted

S.No.	Title and Patent NO.	Authors	Status
1	Gearbox design for combined aerators – No.372085-001, dt.06.10.2022	Anand Theivasigamani, Roshan Raju Umaselvi, Harini Ravi, **Kesavan**	Granted

		Devarayan, Monikandon 2Sukumaran, Ramar Marimuthu	
2	Grader for Shimp Nursery – No. 372078-001, 2022	**Anand Theivasigamani**, Mohammed Imthathullah, Jenifer Loumin S., Kesavan Devarayan, Monikandon Sukumaran, Ramar Marimuthu	Granted
3	Pocket-size Colorimeter. Granted, Design No.370129-001, 2022.	Kesavan Devarayan, Anand Theivasigamani, Monikandon Sukumaran, Ramar Marimuthu	Granted
4	Sandwich Structured Halochromic Sensor for Monitoring Spoilage of Packed Fish - Appl.No.202241048351, 2022.	Kesavan Devarayan, **Anand Theivasigamani**, Monikandon Sukumaran, Evon Umesh Siluvai John, Gangeswar Mohan, Yazhiniyan Palanisamy	Published
5	Pocket-size Colorimeter. Design Application - No.370129-001, 2022	Kesavan Devarayan, **Anand Theivasigamani,** Monikandon Sukumaran, Ramar Marimuthu	Granted
6	Capacitive Deionization - Design Application, Appl.No.370485-001, 2022.	Kesavan Devarayan, **Anand Theivasigamani,** Monikandon Sukumaran, Ramar Marimuthu	Filed
7	Piezoelectric Tiles - Design Application, 370291-001, 02.09.2022	Dr.M.Ramar, Dr.D.Kesavan, **Dr.T.Anand**, Er.S.Monikandon, B. Sanjay, M. Gowsick Kumar, P. Suwathi	GRANTED
8	Piezoelectric Component of Shoe - 370787-001, 13.09.2022.	Ramar Marimuthu, Kesavan Devarayan, **Anand Theivasigamani**, Monikandon Sukumaran	GRANTED
9	Aquatic Animal Habituation tank - Appl.No. 370865-001, 2022	Monikandon Sukumaran, Kesavan Devarayan, **Anand Theivasigamani**, Ramar Marimuthu	FILED
10	Aquatic Animal Harvester - Appl.No. 370867-001, 2022	Monikandon Sukumaran, **Kesavan Devarayan**, Anand Theivasigamani, Ramar Marimuthu,Anbarasan Rajmanickam, Balaji	FIELD

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