Dr. B. VASEEHARAN
Professor and Head

Contact

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Website	:	https://vaseeslab.org/

Academic Qualifications

Degree	Institution	Year	Branch	Class
D. Sc	Periyar University, Salem	2022	Zoology	Awarded
Ph.D.	University of Madras, Chennai	2002	Zoology	Awarded
M. Phil.	Manonmaniam Sundaranar University, Tirunelveli	1994	Zoology	First
M.Sc.	Manonmaniam Sundaranar University, Tirunelveli	1993	Zoology	First
B. Ed	Madurai Kamaraj University, Madurai	1992	Biology and Education	First
B. Sc	Madurai Kamaraj University, Madurai	1990	Zoology	First

Teaching Experience: 25 Years

Position	Institution	Duration
Professor and Head	Alagappa University, Karaikudi	March 2013-till date
Associate Professor		May 2011-March 2013
Reader		May 2008-May 2011
Senior Lecturer	VIT University, Vellore	October 2007-May 2008
Lecturer	Sivanthi Adithanar College, Nagercoil	March 1995-April 1996

Research Experience: 28 Years

Position	Institution	Duration
Professor and Head	Department of Animal Health and Management, Alagappa University, Karaikudi	March 2013-till date
Associate Professor		May 2011-March 2013
Reader		May 2008-May 2011
Post Doctoral fellow	National Taiwan Ocean University, Taiwan	July 2004 to July 2007
Post Doctoral fellow	National Tsing Hua University, Taiwan	October 2003 to May 2004

Academic and Additional Responsibilities

S. No	Position	University Bodies	Period	
			From	To
Academic Position				
1.	Registrar (i/c)	Alagappa University, Karaikudi.	2020	2021
2.	Member of Senate		2021	till date
3.	Dean - Research		2023	till date
4.	Head of the Department	Department of Animal Health and Management, Alagappa University, Karaikudi.	2013	till date
5.	Research Fellow	INIT International University, Malaysia	2023	2025
6.	Director	Directorate of On-line Programme, Alagappa University, Karaikudi.	2019	2020
7.		Collaborative Programme, Alagappa University, Karaikudi	2017	2020
8.	Co-ordinator	Waste treatment technology for sustainable and eco-friendly environment, Alagappa University	2017	2019
9.	Chairman	Board of Studies in Animal Health and Management, Alagappa University	2017	2020
10.	Director	University Scientific Instrumentation Centre, Alagappa University	2016	2017

11.	Chief Warden	Alagappa University Hostels, Alagappa University	2016	2017
12.	Co-ordinator	University Business Collaboration Centre, Alagappa University, Karaikudi	2015	2019
13.	Chairperson	Board of Studies in B. Sc Microbiology and Clinical Lab Technology for affiliated colleges of Alagappa University	2012	2015
14.		Board of Studies in B. Sc Advanced Zoology and Animal Biotechnology for affiliated colleges of Alagappa University	2012	2015
15.		Board of Studies in M. Phil Zoology for affiliated colleges of Alagappa University	2011	2020
Administrative Roles				
16.	External Member	Doctoral Advisory committee, VIT, Vellore	2023	2023
17.	Coordinating committee	NAAC 4th cycle, Alagappa University	2023	till date
18.	Member of IQAC	Ethical committee, Alagappa University, Karaikudi.	2023	till date
19.		Library Committee	2023	till date
20.	Nominee of Acadamic Council	Thassim Beevi College for Women, Kilakarai, Ramanathapuram.	2022	2025
21.	Member of Board of Studies	M. Phil., Zoology Alagappa University, Karaikudi	2022	2025
22.		M. Sc., Zoology Alagappa University, Karaikudi	2022	2025
23.	Member	Constituted for change of PCP Classes from conventional mode to virtual classes mode for DDE at Alagappa University	2020	2021
24.	External expert in Doctoral committee	CMST, M. S. University for up gradation of BSR candidates from JRF to SRF	2018	2018
25.	Member of Board of Studies	M. Sc. Zoology for affiliated colleges of Alagappa University, Karaikudi	2017	2020
26.		B. Sc Zoology for affiliated colleges of Alagappa University, Karaikudi.	2017	2020
27.	Member of Board of Studies	Zoology, DDE, Alagappa University, Karaikudi	2016	till date
28.		Zoology, M. Sc. and M. Phil Zoology-Department of Animal Health and Management, Alagappa University, Karaikudi	2016	till date
29.		Zoology, DDE, Alagappa University, Karaikudi	2015	2018
30.	Member Research Advisory committee	Alagappa University, Karaikudi	2008	2010

Areas of Research

Broad Subject : Aquatic Animal Health Biotechnology
Area of Specialization : Crustacean Molecular Biology &Genomics, Molecular Biology & Immunology and Nanoscience &Technology

Current Research focus

- Dr. B. Vaseeharan's lab research focuses on the Aquatic Animal Health Biotechnology, Crustacean Molecular Biology and Genomics, Molecular Biology & Immunology and Nanoscience &Technology. My research team has sequenced the immune related genes of α2-macroglobulin, β-1, 3-glucan binding protein, serine proteinase, Fein-Penaeidin and penaeidin-3 from various crustaceans along the coastal waters of India. My research team has constructed Green Fluorescent Protein (GFP) tagged *Vibrio parahaemolyticus* (shrimp pathogen) and reported the pathogen interactions and localization in the tissues of *Fenneropenaeus indicus*, that facilitate real-time monitoring of host–pathogen interactions which is the first report in India. Moreover, my research team use extracts of medicinal plants, probiotic bacteria, seaweeds and animal proteins to formulate nanocomposite with ZnONPs dietary supplements that enhance the immunity of the aquatic organisms. With this platform, using our research knowledge to build powerful contributions in research to improve the economic status of aqua industry through less toxic, low cost and eco-friendly probiotic, medicinal plant extract and prebiotic to enhance the immune system of aquatic organism and prevent the spread of disease in commercially important cultured species. Currently, my research team are working on the degradation of microplastics and assessing their toxicity in aquatic environment. Similarly, the impact of nanomaterials and pharmaceutical drugs and their adverse effects on aquatic organisms towards their metabolic capacity underexposure conditions and environmental changes were analyzed. Overall, Dr. B. Vasee's lab works actively to enhance immunity, improving stress tolerance and disease resistance in aquatic animals under laboratory conditions which would help to achieve high yield in aqua farming and to protect the aquatic environment from toxic pollutants.

Patents Filed

S. No.	Title of Patent/ Tech. Transfer/ Product /Process	Author(s)	Patent Number	Date	Status (Filed/ Published / Granted)
1.	Probiotic enriched goat milk composition for enhanced digestive health	Dr. S. Bhavani Ramya, Ms. A. M. Sibiya, **Dr. B. Vaseeharan**	G24074DE	March 2024	Published

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	**PDF**	**04**	**02**
	Ph.D.	**18**	**07**
	M.Phil.	**11**	**-**
Project	**PG**	**59**	**7**

Publications

International		National		Others
Journals	**Conferences**	**Journals**	**Conferences**	**Books/ Chapters/ Monographs/ Manuals**
250	**95**	**03**	**49**	**17**

Cumulative Impact Factor (as per JCR) : 754
h-index : 60
i10 index : 196
Citations : 12139

Funded Research Projects

Completed Projects: (Total Fund received: 106.31 Lakhs)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	RUSA-EIR	2023	2024	Evaluation and commercialization of collagen based ZnO curcumin incorporated smart wound dressing device for wound healing	4.97
2.	RUSA-TBRP-1	2022	2023	Purification and molecular characterization of bioactive metabolites from cnidarians to fight against mosquito vectors and nosocominal pathogens	4.50

3.	RUSA-TBRP-2	2019	2020	Purification and molecular characterization of bioactive metabolites from cnidarians to fight against mosquito vectors and nosocominal pathogens	4.31
4.	DBT	2015	2018	Purification, characterization, functional analysis and structural elucidation of pattern recognition molecule β-1, 3-glucan binding protein and antimicrobial peptides from crustaceans	58.00
5.	CSIR	2012	2015	cDNA cloning mRNA transcript and functional analysis of novel immune related genes prophenoxidase and peroxinectin from the white shrimp *Fenneropeneaus indicus*.	22.00
6.	Indo-Ireland	2011	2013	Silencing key virulence proteins in the liver fluke, *Fasciola hepatica*: development of a novel control strategy.	6.40
7.	Indo-UK	2010	2012	Ultrastructural histochemical and epidemiological studies on amphistomes in India and Northern Ireland, United Kingdom	6.00
8.	Indo-UK	2010	2012	Silencing key virulence proteins in the liver fluke, *Fasciola hepatica:* development of a novel control strategy	6.00
9.	DST	2010	2012	Antimicrobial activity of silver nanoparticles (Ag-Nps) against pathogenic Vibrio spp. Isolated from aquaculture environments"	9.00
10.	UGC	2009	2012	Molecular characterization of Indigenous and exotic probiotic strains and its effective treatment on Bacterial diseases in aquaculture	9.50
11.	DST	2009	2012	Molecular cloning and characterization of novel gene lipopolysaccharide- and β-1, 3-glucan binding protein (LGBP) from *Feneropenaeus indicus* and its mRNA transcript analysis when animals are treated with immunostimulants	15.75
12.	DBT	2009	2012	Genome characterization and mRNA transcript analysis of novel immune related genes α 2 macroglobulin and serine proteinase from *Feneropenaeus indicus*.	22.85

Other Fund Received as Research Mentor: (Total Fund received: 119.85 Lakhs)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	UGC-Kothari	2021	2024	Production of immunity builders from goat milk protein-based tablet to focus the geriatric population as diet supplements.	22.44
2.	UGC-Kothari	2021	2024	Characterization of novel antimicrobial components derived from marine microorganisms and its use for preventing Aeromonas infection in carp aquaculture.	22.44

3.	RUSA-EIR	2023	2024	Production of plant based nano gel for diabetic wound healing activity.	4.97
4.	UGC-Kothari	2009	2012	Exploration of new Antioxidative molecules from *Artemia parthenogenetica* against cellular oxidative damage.	12.00
5.	DST-SERB	2009	2012	Development of nano pesticide using *Bacillus thuringiensis* and botanicals for the control of Pulse beetle, *Callosobruchus chinensis*.	38.80
6.	DST-SERB	2009	2012	Evaluation of anti-vibrio efficacy of conjugated seaweed polysaccharide in shrimp *Liptopenaeus vannamei*.	19.20

Distinctive Achievements / Awards

Year	Award	Awarded by
2023	Life-time Achievement award	Journal of Fisheries and Life Sciences, College of Fisheries, Mangalore
2023	Outstanding Academic and Research Excellence award	Alagappa University, Karaikudi
2022	Short-term Visiting Scholar fellowship award	Mahidol University, Thailand
2022	J.L. Bhaduri Memorial Medal	Zoological Society of Kolkata
2022	Dr. M. Swaminathan Best Fisheries Scientist Award, 2019	PFGF, ICAR-CIFRI
2021	Best Scientist Award- Journal of Fisheries and Life Sciences by College of Fisheries	Journal of Fisheries and Life Sciences, College of Fisheries, Mangalore
2019	Tamilnadu National Scientists Award	Tamil Nadu State Council for Science and Technology, Chennai

Events Organized and Fund Generated from Various Funding Agency

Number of Seminars / Conferences / Workshops / Events organized: 12

International			
Position	**Programme**	**Duration**	**Institution**
Convenor and Organizing Secretary	International Conference on Recent Trends in Vaccines and Biomaterials for Animal Health (RTVBAH-2024)	Feb.1st and 2nd, 2024	
Chairperson	International Conference on "Innovative and Emerging Trends in Botany (ICIETB – 2019)	Nov. 6th - 7th, 2019	

Convener	2nd international conference on Molecular physiology, therapeutics, and experimental medicine (MP-TEM 2019)	July. 24th -25th, 2019	Alagappa University, Tamil Nadu, India
Organizing Chairman	International Workshop on "Molecular Physiology, Therapeutics and Experimental Medicine" - 2016	Sep. 6th -7th, 2026	
Co-Convener	International Conference on "Recent Trends in Biosciences" IRTB - 2016	Apr. 7th - 9th, 2016	
Organizing Secretary	International Seminar On "Recent Trends in Aquatic Animal Biotechnology" (RTAAB- 2013)	Oct. 21st-22nd, 2013	
Organizing Secretary	International seminar on "Applications of Confocal Microscopy Techniques in Animal Health Management" (ACAH'2010)	Mar. 29th -30th, 2010	
Organizing Secretary	International colloquium on "Emerging biotechnologies in Agriculture, Animal Health and Productivity" ICEB 2009	Feb. 23rd - 27th, 2009	
National			
Chairperson	3rd National Seminar on "Next Generation Technology for Sustainable Fisheries"	Mar. 18th - 19th, 2024	Alagappa University, Tamil Nadu, India
Co-ordinator	UBCC in 2nd Training Programme on "Business Opportunities in Aquaculture and Vermiculture Technology"	Mar. 02nd - 08th, 2018	
Coordinator	Tamizha Ariviyal Paeravai "Tamizhkathin Sakthi Valam" 2009 – Department of Animal Health and Management	Sep. 11th -13th, 2009	
Organizing Secretary	National seminar on "Application of genomics and bioinformatics in Animal health and Management" NSGB 09	Mar. 25th -26th, 2009	

Events Participated

Number of Conferences / Seminars / Workshops: 217

Overseas Exposure / Visits

27th Feb 2023 to 1st March 2023	University of Birmingham, UK- Focused meeting on AMR,
15th-16th June 2019	Zhejiang University, Hangzhou, China- Lab visit
10th–14th June 2019	City University, Hongkong- 9th International Conference on Marine pollution and Ecotoxicology
27th–31st January 2019	Binary University, Malaysia-Meeting on Implementation of MOA
23rd-28th June 2018	Open University Malaysia-Research discussion in Biodiversity
3rd-7th August 2016	Asian Fisheries Society, Bangkok, Thailand-10th Symposium on disease in Asian Aquaculture

21st May-2nd June 2016	Mahidol University, Bangkok, Thailand-International Conference on 11th Asian Fisheries and Aquaculture Forum
20th May-15th June 2014	
5th –20th June 2012	Queens University of Belfast- Indo Ireland scientific cooperation programme
26th-30th June 2011	European Microbiological Association, Switzerland- 4th European Microbiological Association Conference
15th-30th Nov 2009	National Taiwan Ocean University- Post Doctoral fellow
June 26th2009-July 7th2009	
June 06th 2010-July 10th 2010	

Membership

Professional Bodies

1. 2023- Joint Secretary and Life Member, Asian Society of Aquaculture Academics (ASAA), Chennai
2. 2022-Life Member, The Zoological Society, Kolkata
3. 2021-Life Member, Institute of Immunology, and Immunotherapy, Bactivac, University of Birmingham, UK
4. 2021-Life Member, The Journal of Fisheries and Life sciences, Mangalore
5. 2009-Life The Indian Science Congress Association, India
6. 2011-Life Member, International Society for Salt Lake Research (ISSLR)
7. 2010-Life Member, The Science Advisory Board, India.
8. 2015- Life Member, Asian Fisheries Society

Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2023	BoS- Ayya Nadar Janaki Ammal College	Member subject expert
2023	BoS in Zoology-TNSCHE, Chennai	Chairperson
2021	BoS - Department of Marine Science/Microbiology, Manonmaniam Sundaranar University, Tirunelveli.	Member external expert
2021	BoS - M.Sc. Zoology, Manonmaniam Sundranar University, Tirunelveli.	Member
2020	BoS - Zoology – PG (Affiliated Colleges), Manonmaniam Sundaranar University, Tirunelveli	Member subject expert
2020	BoS- B. Sc Zoology, Ayya Nadar Janaki Ammal College, Sivakasi	Member subject expert
2019	BoS- M.Sc. Zoology, Tamilnadu state council for higher education, Chennai	Chairperson
2018	BoS -M.Sc. Zoology, TANSCHE Chennai	Chairperson
2017-2019	BoS in Zoology- Scott Christian College (Autonomous), Nagercoil	Member

2018-till date	BoS in Zoology for M. Phil and Ph D course work papers- Manonmanium Sundarnar University, Nagercoil	Member
2017-2020	BoS- M.Sc. and M.Phil. Zoology, Department of Animal Science, Bharathidasan University, Tiruchirappalli	Member
2016	BoS- M.Sc. Integrated Zoology/Zoology, Manonmaniam Sundranar University, Tirunelveli	Member
2013-2016	BoS in Zoology, Scott Christian College (Autonomous), Nagercoil	Member illustrious Alumnus
2015	BoS- M.Sc. Zoology and M.Phil. Zoology, Manonmaniam Sundranar University	Member
2010-2013	BoS in Zoology (G&P)- University of Madras, Chennai	Member

Ph.D. Thesis Evaluated / Viva Voce Conducted

1. No. of Ph.D. Thesis evaluated : 98
2. No. of Ph.D. Public Viva Voce Examination conducted : 51

List of Research Articles / Recent Publications (Total Number of Publications: 253)

S. No	Author Details and Title of Paper	Impact Factor
1.	Jeyavani, J., Al-Ghanim, K. A., Govindarajan, M., Nicoletti, M., Malafaia, G., & **Vaseeharan, B**. Bacterial screening in Indian coastal regions for efficient polypropylene microplastics biodegradation. *Science of The Total Environment*, 918, 170499. (2024)	9.8
2.	Shiammala, P. N., Duraimutharasan, N. K. B., **Vaseeharan, B**., Alothaim, A. S., Al-Malki, E. S., Snekaa, B., ... & Selvaraj, C. Exploring the artificial intelligence and machine learning models in the context of drug design difficulties and future potential for the pharmaceutical sectors. *Methods*. (2023).	4.8
3.	Velusamy, P., Su, C. H., Ramasamy, P., Arun, V., Rajnish, N., Raman, P., Gopinath, S. C ... & **Vaseeharan, B**. Volatile organic compounds as potential biomarkers for noninvasive disease detection by nanosensors: A comprehensive review. *Critical Reviews in Analytical Chemistry*, *53*(8), 1828-1839. (2023).	5
4.	Ishwarya, R., Tamilmani, G., Al-Ghanim, K. A., Govindarajan, M., Nicoletti, M., & **Vaseeharan, B.** Biosynthesis of zinc oxide nanoparticles from molted feathers of *Pavo cristatus* and their antibiofilm and anticancer activities. *Green Processing and Synthesis*, *12*(1), 20230090. (2023).	3. 9
5.	Ganesan, V., Mani, M. K., Narayanan, V., Shanmugasundram, E., Vellaisamy, K., **Vaseeharan, B**., ... & Thambusamy, S. Synthesis, characterization of 4, 4′-((1E, 1′ E)-hydrazine-1, 2-diylidenebis (methanylylidene)) diphenol and the inclusion complex with γ-cyclodextrin as a fluorescent probe for detection of Al3+. *Journal of Photochemistry and Photobiology A: Chemistry*, *442*, 114814. (2023).	4.4
6.	Sibiya, A., Al-Ghanim, K. A., Govindarajan, M., Nicoletti, M., Sachivkina, N., & **Vaseeharan, B.** Biochemical Patterns and Genotoxicity of the Endocrine Disruptor Metformin in the Freshwater Fish *Labeo rohita*. *Fishes*, *8*(7), 380.	4.4

	(2023).	
7.	Priya, A. S., Sivakamavalli, J., **Vaseeharan, B**., Rajamohan, R., Lee, Y. R., & Thambusamy, S. Interaction of torsemide with native cyclodextrin through inclusion complexation: In-vitro drug release, antibacterial and antibiofilm activities. *Journal of Molecular Structure*, *1286*, 135624. (2023).	3.6
8.	Jeyavani, J., Sibiya, A., Stalin, T., Vigneshkumar, G., Al-Ghanim, K. A., Riaz, M. N., ... & **Vaseeharan, B**. Biochemical, genotoxic and histological implications of polypropylene microplastics on freshwater fish *Oreochromis mossambicus*: An aquatic eco-toxicological assessment. *Toxics*, *11*(3), 282. (2023).	4.4
9.	Jeyavani, J., & **Vaseeharan, B**. Combined toxic effects of environmental predominant microplastics and ZnO nanoparticles in freshwater snail *Pomaceae paludosa*. *Environmental Pollution*, *325*, 121427. (2023).	8
10.	Sibiya, A., Jeyavani, J., Saravanan, M., Albeshr, M. F., Nicoletti, M., Govindarajan, M., & **Vaseeharan, B.** Response of hepatic biochemical parameters and neurotoxicity to carbamazepine and ibuprofen in *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*, *49*(5), 787-799. (2023).	3
11.	Lakshmi, S., Rubeena, A. S., Subramaniyan, S. B., Raman, T., **Vaseeharan, B**., Arockiaraj, J., ... & Preetham, E. Hybrid of *Metapenaeus dobsoni* lectin and platinum nanoparticles exert antimicrobial and immunostimulatory effects to reduce bacterial bioburden in infected Nile tilapia. *Scientific Reports*, *13*(1), 525. (2023).	4.9
12.	Ishwarya, R., Tamilmani, G., Jayakumar, R., Albeshr, M. F., Mahboob, S., Shahid, D., ... & **Vaseeharan, B**. Synthesis of zinc oxide nanoparticles using *Vigna mungo* seed husk extract: An enhanced antibacterial, anticancer activity and eco-friendly bio-toxicity assessment on algae and zooplankton. *Journal of Drug Delivery Science and Technology*, *79*, 104002. (2023).	5.0
13.	Radhakrishnan, A., **Vaseeharan, B**., Ramasamy, P., & Jeyachandran, S. Oral vaccination for sustainable disease prevention in aquaculture—An encapsulation approach. *Aquaculture International*, *31*(2), 867-891. (2023).	2.9
14.	Abinaya, M., Gnanaprakasam, P., Govindarajan, M., Wadaan, M. A., Mahboob, S., Wadaan, A. M., ... & **Vaseeharan, B**. Antibacterial and Antibiofilm Potential of Microbial Polysaccharide Overlaid Zinc Oxide Nanoparticles and Selenium Nanowire. *Fermentation*, *8*(11), 637. (2022).	5.1
15.	Vinotha, V., & **Vaseeharan, B**. Bio-fabricated zinc oxide and cry protein nanocomposites: Synthesis, characterization, potentiality against Zika, malaria and West Nile virus vector's larvae and their impact on non-target organisms. *International Journal of Biological Macromolecules*, *224*, 699-712. (2023).	8.2
16.	Jeyavani, J., Sibiya, A., Gopi, N., Mahboob, S., Al-Ghanim, K. A., Al-Misned, F., ... & **Vaseeharan, B**. Ingestion and impacts of water-borne polypropylene microplastics on *Daphnia similis*. *Environmental Science and Pollution Research*, *30*(5), 13483-13494. (2023).	5.1
17.	Nivetha, K., Vinotha, V., Albeshr, M. F., Mahboob, S., Manzoor, I., Govindarajan, M., & **Vaseeharan, B**. Synthesis and characterization of Vitis vinifera exocarp-mediated ZnO nanoparticles: An evaluation of biological potential and ecotoxicity. *Journal of Drug Delivery Science and Technology*, *77*, 103846. (2022).	5.6
18.	Vanajothi, R., Bhavaniramya, S., Vijayakumar, R., Alothaim, A. S., Alqurashi, Y. E., Vishnupriya, S., Umadevi, M... & **Vaseeharan, B**. In silico and In vitro	2.4

	Analysis of Nigella sativa Bioactives Against Chorismate Synthase of Listeria monocytogenes: a Target Protein for Biofilm Inhibition. *Applied Biochemistry and Biotechnology*, *195*(1), 519-533. (2023).	
19.	Ishwarya, R., Jeyavani, J., Jayakumar, R., Alarifi, S., Govindarajan, M., Nicoletti, M., & **Vaseeharan, B**. *Citrullus lanatus*-encased zinc oxide nanoparticles as potential anti-diabetic, anti-inflammatory and antibacterial agents: A new strategy towards biocompatible nano-drugs. *Journal of the Indian Chemical Society*, *99*(10), 100703. (2022).	0.2
20.	Sibiya, A., Gopi, N., Jeyavani, J., Mahboob, S., Al-Ghanim, K. A., Sultana, S., ... & **Vaseeharan, B.** Comparative toxicity of silver nanoparticles and silver nitrate in freshwater fish *Oreochromis mossambicus*: A multi-biomarker approach. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, *259*, 109391. (2022).	4.5
21.	Yazhiniprabha, M., Banu, S., Ishwarya, R., Vinotha, V., Govindarajan, M., Wadaan, M. A., ... & **Vaseeharan, B.** Biomimetically synthesized *Physalis minima* fruit extract-based zinc oxide nanoparticles as eco-friendly biomaterials for biological applications. *Journal of Drug Delivery Science and Technology*, *73*, 103475. (2022).	3.9
022.	Vijayakumar, S., Chen, J., Divya, M., Durán-Lara, E. F., Prasannakumar, M., & **Vaseeharan, B**. A review on biogenic synthesis of selenium nanoparticles and its biological applications. *Journal of Inorganic and Organometallic Polymers and Materials*, *32*(7), 2355-2370. (2022).	3.5
23.	Gopi, N., Iswarya, A., Vijayakumar, S., Jayanthi, S., Nor, S. A. M., Velusamy, P., & **Vaseeharan, B**. Protective effects of dietary supplementation of probiotic Bacillus licheniformis Dahb1 against ammonia induced immunotoxicity and oxidative stress in *Oreochromis mossambicus*. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, *259*, 109379. (2022).	4.5
24.	Ishwarya, R., Jayakumar, R., Govindan, T., Govindarajan, M., Alharbi, N. S., Kadaikunnan, S., ... & **Vaseeharan, B**. Swift synthesis of zinc oxide nanoparticles using unripe fruit extract of *Pergularia daemia*: An enhanced and eco-friendly control agent against Zika virus vector *Aedes aegypti*. *Acta Tropica*, *232*, 106489. (2022).	3.1
25.	Velusamy, P., Su, C. H., Ramasamy, P., Arun, V., Rajnish, N., Raman, P., **Vaseeharan, B** ... & Gopinath, S. C. Volatile organic compounds as potential biomarkers for noninvasive disease detection by nanosensors: A comprehensive review. *Critical Reviews in Analytical Chemistry*, *53*(8), 1828-1839. (2023).	6.5
26.	Jeyavani, J., Sibiya, A., Gopi, N., Mahboob, S., Riaz, M. N., & **Vaseeharan, B.** Dietary consumption of polypropylene microplastics alter the biochemical parameters and histological response in freshwater benthic mollusc *Pomacea paludosa*. *Environmental Research*, *212*, 113370. (2022).	6.4
27.	Vinotha, V., Yazhiniprabha, M., Jeyavani, J., & **Vaseeharan, B**. Synthesis and characterization of cry protein coated zinc oxide nanocomposites and its assessment against bacterial biofilm and mosquito vectors. *International Journal of Biological Macromolecules*, *208*, 935-947. (2022).	6.9
28.	Sebastiammal, S., Fathima, A. S. L., Alarifi, S., Mahboob, S., Henry, J., Kavipriya, M. R., ... & **Vaseeharan, B**. Synthesis and physicochemical characteristics of Ag-doped hydroxyapatite nanoparticles, and their potential biomedical applications. *Environmental Research*, *210*, 112979. (2022).	6.4
29.	Sibiya, A., Jeyavani, J., Santhanam, P., Preetham, E., Freitas, R., & **Vaseeharan, B.** Comparative evaluation on the toxic effect of silver (Ag) and zinc oxide	3.7

	(ZnO) nanoparticles on different trophic levels in aquatic ecosystems: A review. *Journal of Applied Toxicology*, *42*(12), 1890-1900. (2022).	
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Contribution in book/ chapters – 14

S. No	Particulars	Publisher and year
	Books Edited	
1.	**Vaseeharan Baskaralingam**, Rapeepun Vanichviriyakit, Vitellogenin in Fishes-Diversification, Biological Properties, and Future Perspectives (ISMN: 978-981-99-5339-4)	Springer Nature Singapore, 2023
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Resource Persons in Various Capacities

National Conferences	:	45
International Conferences	:	20
Invited Lectures	:	26

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