

PROFESSIONAL PROFILE AND ACHIEVEMENTS

Permanent Residential address:

Dr. Jayachandran P. R.
Paravanparambil (H)
South Paravoor (P.O)
Udayamperoor, Tripunithura
Ernakulam, Kerala, Pin: 682307
Phone: +91 9447726421 (Mob.)
Email: jayachandran2701@gmail.com



Official address:

Dr. Jayachandran P.R.
Post Doctoral Fellow
Applied Research Center for Environment and Marine Studies (ARC-EMS)
King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, Saudi Arabia
Mobile: +966 500841540 | Office: +966 (13) 860-5307
Email: j.rajakumar@kfupm.edu.sa

Age, Date of Birth	:	37 yrs, 13.03.1987
Sex	:	Male
Marital status	:	Married
Born	:	Cherthala, Alappuzha District, Kerala, India
Passport No.	:	N2176839
Place of issue	:	Cochin
Date of Issue	:	19/08/2015
Date of expiry	:	18/08/2025

Research interests

I have 15 years of research experience in various positions, including Junior Project Fellow, Senior Research Fellow, Project Scientist, Post-Doctoral Fellow and Assistant Professor. Throughout my career, I have made significant contributions to the field of aquatic ecology and marine biology. My research work has been published in 50 research articles in SCI journals. Additionally, I have edited 6 books/training manuals, published 7 book chapters, 4 conference proceedings, and 5 other articles. My work has received 527 citations and I have achieved a h-index of 13. I am recognized as a subject editor for the journal One Ecosystem, published by Pensoft Publishers, and I have also more peer reviewed more than 87 SCI journal articles. Furthermore, I have participated in organizing national and international conferences and training programs, contributing to the dissemination of scientific knowledge and the development of the research community. In terms of my educational background, I hold a BSc. in Aquaculture, where I graduated with the highest rank. I have also qualified the ICAR NET (Fisheries Science) examination. In 2019, I was honored with the "Distinguished Researcher Award" by CUSAT.

During my PhD program, I conducted an extensive assessment of ecology and temporal changes in benthic communities in the Kodungallur Azhikode estuary, which is located in the northern region of the Vembanad Kol wetland (a Ramsar site). I have identified benthic indicator species in the estuary, contributing to our understanding of the ecosystem. I have also participated in Arctic expeditions as part of the national polar research program. These expeditions focused on studying the ecology of benthic communities in Arctic fjords between 2016 and 2018. This experience provided valuable insights into the dynamics of marine ecosystems in extreme environments. Another significant research project I undertook involved assessing the ecology and fish production potential of the Kodungallur-Azhikode backwater ecosystem. This project was funded by the Kerala State Council for Science, Technology, and Environment. Furthermore, I have contributed to our scientific knowledge on heavy metal contamination in the Cochin coast through a field and laboratory-based ecotoxicology program. The findings of this program have informed the proposal of national draft seawater quality guidelines for heavy metals to the Ministry of Earth Sciences. I have gained extensive field experience, ranging from Arctic fjords to coastal backwaters, mangrove habitats, coral reef ecosystems, and seagrass beds. Additionally, I am a trained PADI certified open water SCUBA diver, which has further enhanced my ability to explore and understand marine environments. In terms of taxonomy, I have described 1 new genus of clam and 4 new species (including clams, amphipod, and tardigrade) using both conventional and molecular approaches. I have also documented numerous marine organisms along the Indian and Kerala coasts, including invasive species like *Mytella strigata* for the first time from Indian waters. My research interests lie in the study of functional diversity and community ecology of aquatic communities in estuaries, mangroves, seagrass-seaweed beds, and deep-sea ecosystems. Current research focusing on Invasive Alien Species (IAS) diversity and its impact in the Arabian Gulf using eDNA metabarcoding. I have proficiency in using software such as R packages, MAPINFO, SPSS, CANOCO, Arc-GIS, MAPWINDOW, SURFER, and PRIMER (Plymouth Routines In Multivariate Ecological Research) for data analysis and ecological research. Overall, my extensive research experience, publication record, ecological fieldwork, and expertise in data analysis and software make me a highly qualified researcher in the field of aquatic ecology and marine biology.

Education

Post Doctoral Fellow at KFUPM, Saudi Arabia (26th March 2023 to date)

Topic: Bio-invasion ecology

Post Doctoral Fellow at CUSAT, Kerala, India (1st July 2019 to June 2022)

Topic: Bio-invasion ecology

Ph.D. in Faculty of Marine Sciences (2018) (Marine Biology)

Cochin University of Science and Technology

Title of Ph.D. Thesis: Bioecological study of benthic communities in the Kodungallur-Azhikode estuary, Southwest coast of India

MSc. Marine Biology (2009)

Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Cochin University of Science and Technology, Kerala, India.

Passed in first class.

BSc. Aquaculture (2007)

St. Albert's College, Ernakulam, Mahatma Gandhi University, Kerala, India.

Passed in first rank with distinction

V.H.S.C. Fisheries: Fish Processing Technology (2004)

Government Vocational Higher Secondary School, Perumbalam, Alappuzha, Kerala, India. Passed in first class.

Professional Experience

Research (total): 15 years:

1. **26.03.2023 to till: Post Doctoral Fellow (KFUPM, Saudi Arabia):** Research Topic: Invasive Alien Species (IAS) diversity and its impact in the Arabian Gulf using eDNA metabarcoding.
2. **01.06.2022 to 17.03.2023: Assistant Professor (Govt. Guest),** St. Alberts College, Ernakulam
3. **01.07.2019 to 31.05.2022: Post Doctoral Fellow (CUSAT):** *Topic of research: Invasive Alien Species (IAS) diversity and its impact on coastal marine ecosystems of southwest coast of India*
4. **01.11.2018 to 30.06.2019: Post Doctoral Fellow:** Kerala State Pollution Control Board funded project on Study on the impact of heavy floods on the environmental characteristics of Vembanad backwaters”.
5. **01.11.2014 to 30.04.2017: Project Scientist – II:** National Centre for Coastal Research /ICMAM-Project Directorate, Ministry of Earth Sciences (ICMAM-MoES) funded project on Sea water quality criteria toxicity effects of selected heavy metals and pesticides on marine organisms.
6. **01.02.2013 to 31.10.2014: Senior Research Fellow:** National Centre for Coastal Research /ICMAM-Project Directorate, Ministry of Earth Sciences (ICMAM-MoES) funded project on Sea water quality criteria toxicity effects of selected heavy metals and pesticides on marine organisms
7. **21.06.2012 to 13.12.2017: Research for PhD degree** under the Faculty of Marine Sciences on the topic “*Bioecological study of benthic communities in the Kodungallur-Azhikode estuary, South west coast of India*”
8. **19.06.2009 to 20.06.2012: Junior Project Fellow:** Kerala State Council for Science, Technology and Environment (KSCSTE) funded project on *Ecology and Fish Production Potential of the Kodungallur-Azhikode Backwater Ecosystem.*

Teaching experience

1. 01.06.2022 to present: **Assistant Professor (Government Guest),** St Alberts College, Ernakulam, Kerala

2. **01.02.2013 to 31.10.2014: Senior Research Fellow**, School of Marine Sciences, Cochin University of Science and Technology, Cochin, Kerala
3. **01.11.2014 to 30.04.2017: Project Scientist-II**, School of Marine Sciences, Cochin University of Science and Technology, Cochin, Kerala
4. **01.07.2019- ongoing: Post-Doctoral Fellow**, School of Marine Sciences, Cochin University of Science and Technology, Cochin, Kerala

Field research experience

1. Arctic polar ecosystems: Participated in Indian Arctic Expedition **2016** (25th August to 26th September), **2017** (14th July to 25th August) **2018** (28th June to 30th July).
2. Coastal marine ecosystems of Kerala: Monthly field cruises on board different boats / ships and CUSAT research vessels in the coastal Marine ecosystems of India **2009 to 2019**.
3. Seagrass beds and coral reefs of Lakshadweep Islands (Minicoy, Kavaratti, Agatti, Bangaram) **2009-2012, 2019**.
4. Mangroves of Kerala, Tamil Nadu and Lakshadweep Islands **2009-2018**
5. Ecotoxicological related studies in Cochin Backwaters **2012-2017**

Administrative experience

1. **Programme coordinator/Organising secretary:** One day Nature Education camp at Mangalavanam Bird Sanctuary, Kochi” on 2nd February 2022 organised by the Research Department of Fisheries and Aquaculture (RDFA), St. Albert’s College (Autonomous), Ernakulam and Kerala State Forest and Wildlife Department in connection with world Wetland Day.
2. **Programme coordinator/Organising secretary:** One day workshop on “Mangrove Restoration as Nature-based Solution for Climate Resilience in Kochi” on 26th July 2022 at St. Albert’s Collage (Autonomous) and Mangalavanam Bird Sanctuary, Ernakulam organised by the Research Department of Fisheries and Aquaculture (RDFA), St. Albert’s College (Autonomous), Ernakulam in connection with International Day for the Conservation of the Mangrove Ecosystem 2022.
3. **Programme coordinator:** Skill Development Programme “PADI Pro meet 2022: An introduction to SCUBA diving” 16th June, 2022 at St. Albert’s Collage (Autonomous) organised by Research Department of Fisheries & Aquaculture, St. Albert’s Collage (Autonomous) in collaboration with Research and Environmental Education Foundation (REEF), Lakshadweep, India and the Conservation Research Group (SRG), Kerala.
4. **Programme coordinator: World Oceans Day photography competition 2022** from 8th to 12th June, 2022 organised by Research Department of Fisheries & Aquaculture, St. Albert’s Collage (Autonomous) in collaboration with Research and Environmental Education Foundation (REEF), Lakshadweep, India and the Conservation Research Group (SRG), Kerala.

5. **Organizing member Primer 7 and Permanova + workshop.** 2-13th August, 2021 at the School of Marine Science, CUSAT, Kochi.
6. **Project Scientist–II (01.11.2014 to 30.04.2017):** ICMAM-Project Directorate, Ministry of Earth Sciences (CMAM-MoES) funded project on Sea water quality criteria toxicity effects of selected heavy metals and pesticides on marine organisms
7. **Associate organizing Secretary:** 1st International Training Workshop on Taxonomy of Bivalve Molluscs, Kochi, India. 10-16th May, 2016 at the School of Marine Science, CUSAT, Kochi.
8. **Associate organizing Secretary:** 2nd International Training Workshop on Meiofauna, Kochi, India. 6th-9th February, 2018 at School of Marine Science, CUSAT, Kochi.
9. **Organizing member:** International Conference on Benthos 2019 on 14th to 16th March 2019, at the School of Marine Sciences, Cochin University of Science and Technology.
10. **Organizing member:** Seminar on “Mangrove propagation and conservation” on 12th July 2012, at the School of Marine Sciences, Cochin University of Science and Technology.
11. **Organizing member:** Lab to field Programme - Planting of Mangroves” on 12th July 2012, at Mangalavanam Bird Sanctuary, Cochin.

Professional training

International

1. Participated *in* the International **Training Workshop on Polar bear and weapon for protection course** held at Ny-Alesund, Spitsbergen organized by Kings Bay AS (Marzena KAczmarska, Instructor) on 09-09 2016 **(1day)**.
2. Participated in the International **Open Water Diver** Training course of the Professional Association of Diving Instructors (PADI), Australia (Sikandar Hussain, 467306) from 1st to 20th March 2016 **(20 days)**.
3. Participated *in the* **International Training Workshop on Taxonomy of Bivalve Molluscs** held at School of Marine Sciences, CUSAT organized by Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Cochin University of Science and Technology in collaboration with the National Museum of Wales and School of Ocean Sciences, Bangor University, North Wales, United Kingdom and Department of Aquatic Biology and Fisheries, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala, India on May 10-14, 2016 **(5 days)**.
4. Participated *in* the **International Training Workshop on Meiofauna** held at the School of Marine Sciences, CUSAT organized by the Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Cochin University of Science and Technology on 6-9 February 2018 **(4 days)**.

National

1. One month training as Quality Controller at Bhatsons Aquatic Products, Exporters of frozen marine aquatic products, Thoppumpady, Cochin - 05. 2nd August 2006 to 08th September 2006 (30 days)
2. Participated as a trainee in the Workshop on Taxonomy of Marine Algae organized by Krishnamurthy Institute of Algology, Chennai at CSMCRI Marine Algal Research Station, Mandapam Camp from 17th to 21st November 2010. (5days).
3. Participated as a trainee in the Climate Change and Geospatial Technology organized by CSIR-National Institute of Science Communication and Information Resources (NISCAIR), New Delhi 110 012 from 12th to 18th March 2012. (7days).
4. Participated as a trainee in the Use of open-source GIS package in coastal zone management held at Integrated Coastal and Marine Area Management (ICMAM), Chennai (Ministry of Earth Sciences) from 30th January to 3rd February 2012. (5days).
5. Participated as a trainee in the Molecular Markers for Genetic Variability Analysis organized by National Bureau of Fish Genetic Resources, ICAR at NBFGR Kochi Unit, CMFRI Campus, Kochi from 12th to 19th December 2012. (7days).
6. Participated in training on Gas chromatography at Perkin Elmer, Customer Knowledge Centre, Thane, (Mumbai) on 26 & 27 March 2014. (2days).
7. Participated in a Training workshop on “Statistical Tools for Marine Biologists” at Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, CUSAT, Kochi-16 from 27th to 31st March 2017 (5 days)
8. Participated in a six-day workshop on “Coastal and Estuarine Ecosystem Conservation and Management” (Environmental Management Training -EMT 2018) conducted by the Department of Botany, Maharaja’s College from 3rd to 8th December 2018 (7days).

Professional affiliation

1. Member, UN Regular Process PoE for Global Marine Environment Assessment
2. Member, Estuarine & Coastal Sciences Association (membership number 3135)
3. Member, Marine Biology Alumni Association, India
4. Member, Society of Wetland Scientists, Madison (Member ID: 076670)
5. Member, Svalbard Science Forum (RIS ID: 10327 and 10325)
6. Member, British Ecological Society
7. Lifetime Member, Society of Marine Biologists, India (SOMB/ER/678/05/080)
8. Lifetime Member, Mangrove Society of India
9. Lifetime Member, Association of Fisheries Graduates (AFG/M/2020-21/409)

Honors/ Awards/ Professional recognitions

1. **FIRST RANK**, BSc Aquaculture, M.G. University, 2007
2. **ICAR NET**, Fishery Resource Management, 2012
3. **Distinguished Researcher Award 2018**, Cochin University of Science and Technology
4. **Reviewer Recognition Award 2022**, Ecological Indicators, Elsevier
5. **Journal Subject Editor**: One Ecosystem, Pensoft Publishers

Fund / Sponsorship / Consultancy Received

1. Sponsorship from Research and Environmental Education Foundation (REEF) Lakshadweep, India received (Rs. 5000/-) for prize money and conduct of World Oceans Day Photography competition 2022.

PUBLICATIONS

1. M. N. Suhaana, Jaime Gómez-Gutiérrez, **P. R. Jayachandran**, P. Hari Praved, S. Bijoy Nandan (2024) A review on the parasitic isopod genus *Notophryxus* G. O. Sars, 1883 (Crustacea: Isopoda), and first report of *Notophryxus globularis* G. O. Sars, 1885 from Lakshadweep Sea (Amini Island). *Acta Oceanol. Sin.*, 2024, Vol. 43, No. 2, P. 1–12. <https://doi.org/10.1007/s13131-023-2217-3>. (in press)
2. Joydas, T.V., Manokaran S., Gopi, **Jayachandran, P.R.**, Yu-Jia, Heinle, Nazal, Manikandan, Qashqari, P. Mohandas, A. Hussain, Maneja, Qasem, Lozano-Cortés and Abuzaid (2024) Advancing Ecological Assessment of the Arabian Gulf through eDNA Metabarcoding: Opportunities, Prospects, and Challenges. *Frontiers in Marine Science. Marine Ecosystem Ecology*, 11, doi: 10.3389/ fmars.2024. 1276956 (in press).
3. Bhavya Kachiprath, Solly S, Jayanath G, **Jayachandran P. R.**, Jabir T, Manomi S, Anjali SM, Puthumana Jayesh, Chaithanya E. R, Rosamma Philip (2024) Exploring bacterial diversity in Arctic fjord sediments: A 16S rRNA based metabarcoding portrait. ***Brazilian Journal of Microbiology*** (in press). (IF: 2.2).
4. M. Jima, **P. R. Jayachandran**, J. Rojin, P. Anulakshmi, N. K. Aswathy, S. Bijoy Nandan, M. Harikrishnan, and K. P. Krishnan (2023) Meiofaunal Assemblage Pattern in Krossfjord, Svalbard Archipelago. ISSN 1063-0740, ***Russian Journal of Marine Biology***, 2023, Vol. 49, No. 6, pp. 507–518. (IF: 0.6).
5. Rani, V., Nandan, S. B., **Jayachandran, P. R.**, Preethy, C. M., Sreelekshmi, S., Joseph, P., & Asha, C. V. (2023). Carbon stock in biomass pool of fragmented mangrove habitats of Kochi, Southern India. *Environmental Science and Pollution Research*, 1-17. (IF: 5.8; Q1 journal)
6. Vishnudattan, N. K., Tait, D. R., Nandan, S. B., Aravind, E. H., Babu, D. S., & **Jayachandran, P. R.** (2023). The seasonal distribution and pollution potential of dissolved heavy metals and nutrients in subterranean estuaries in southern India. *Marine pollution bulletin*, 194, 115339. (IF: 5.8; Q1 journal)

7. Jima, M., **Jayachandran, P. R.**, Rojin, J., Anulakshmi, N., Aswathy, N. K., Nandan, S. B., & Harikrishnan, M. (2023). Assessing the spatial distribution of meiofaunal communities in Krossfjord, Svalbard Archipelago: Foraminifera diversity as a key component. *Regional Studies in Marine Science*, 103153. (IF: 2.1; Q2 journal)
8. Praved, P. H., Neethu, K. V., Govindarajan, A. F., Nandan, S. B., Aneesh, B. P., & **Jayachandran, P. R.** (2023). Introduction of the euryhaline epibenthic hydromedusa *Vallentinia gabriellae* Vannucci Mendes, 1948 (Hydrozoa: Limnomedusae) to Indian waters. *Journal of the Marine Biological Association of the United Kingdom*, 103, e61. (IF: 1.559)
9. Rani, V., Schwing, P. T., **Jayachandran, P. R.**, Preethy, C. M., Sreelekshmi, S., Joseph, P., & Nandan, S. B. (2023). Carbon stocks and sequestration rate in mangroves and its major influencing factors from highly urbanized port city, southern India. *Journal of Environmental Management*, 335, 117542. <https://doi.org/10.1016/j.jenvman.2023.117542>
10. Praved, P. H., Oliveira, O. M. P., Neethu, K. V., Suhaana, N. M., Nandan, S. B., & **Jayachandran, P. R.** (2023). Unusual blooming of invasive ctenophore *Beroe ovata* (Bruguère, 1789) and geographical range expansion based on morphology and molecular analysis. *Regional Studies in Marine Science*, 60, 102837. <https://doi.org/10.1016/j.rsma.2023.102837>
11. Aswathy, N. K., Krishnapriya, P. P., Neenu, P., Nandan, S. B., Jima, M., **Jayachandran, P. R.**, Harikrishnan, M., & Krishnan, K. P. (2022). Spatial dynamics of macrofauna with special reference to bivalve molluscs in the Arctic Kongsfjord, Svalbard, Norway. *Polar Science*, 100916. <https://doi.org/10.1016/j.polar.2022.100916>
12. **Jayachandran, P. R.**, Velasquez, M., & Jima, M. (2022). A new species of wood-boring bivalve (Mollusca: Xylophagaidae) from the Eastern Arabian Sea. *Marine Biodiversity*, 52(7). <https://doi.org/10.1007/s12526-021-01245-1>
13. **Jayachandran, P. R.**, Radhika, R., Aneesh, B. P., Santu, K. S., Jima, M., & Nandan, S. B. (2021). Biological invasion of medically important bladder snail *Physella acuta* Draparnaud, 1805 (Gastropoda, Physidae) in the freshwater habitat of Kerala, India. *Proceedings of the Zoological Society*. <https://doi.org/10.1007/s12595-021-00419-w>
14. Jima, M., **Jayachandran, P. R.**, & Nandan, S. B. (2022). Modern benthic foraminiferal diversity along the fjords of Svalbard Archipelago: diversity evaluation. *Thalassas*, 38, 647–664. <https://doi.org/10.1007/s41208-021-00356-7>
15. Xavier, N. D., Nandan, S. B., **Jayachandran, P. R.**, et al. (2021). Eliciting heavy metal contamination on selected native organisms from Cochin estuary using contemporary biomarker approach. *Journal of Earth System Science*, 130, 174. <https://doi.org/10.1007/s12040-021-01676-1>
16. Krishnapriya, P. P., Aswathy, N. K., Dhanya, M. M., Jima, M., **Jayachandran, P. R.**, Nandan, S. B., Harikrishnan, M., & Krishnan, K. P. (2021). Protective role of carbon sequestration by free living nematodes in Arctic Kongsfjord (intermediate zone), Svalbard

- in the emerging climate change scenario. *Journal of Earth System Science*, 130, 138. <https://doi.org/10.1007/s12040-021-01639-6>
17. Vishnudattan, N. K., Nandan, S. B., Hansen, J. G., & **Jayachandran, P. R.** (2021). A new Tardigrade species, *Stygarctus keralensis* sp. nov. (Arthrotardigrada: Stygarctidae) from the intertidal zone of Southwest coast of India. *Zootaxa*, 4985(3), 381–391. <https://doi.org/10.11646/zootaxa.4985.3.5>
 18. Praved, P. H., Morandini, A. C., Maronna, M. M., Suhana, N. M., Jima, M., Aneesh, B. P., Nandan, S. B., & **Jayachandran, P. R.** (2021). Report of Mauve Stinger *Pelagia cf. noctiluca* (Cnidaria: Scyphozoa) Bloom from Northeastern Arabian Sea (NEAS). *Thalassas*. <https://doi.org/10.1007/s41208-021-00304-5>
 19. Jima, M., **Jayachandran, P. R.**, Nandan, S. B., Krishnapriya, P. P., Aswathy, N. K., Krishnan, K. P., Harikrishnan, M., & Radhakrishnan, C. K. (2021). Stable isotopic signatures of sediment carbon and nitrogen sources and its relation to benthic meiofaunal distribution in the Arctic Kongsfjord. *Marine Ecology - An Evolutionary Perspective*, 42(6), e12660. <https://doi.org/10.1111/maec.12660>
 20. Joseph, P., Nandan, S. B., Sreelekshmi, S., **Jayachandran, P. R.**, Varghese, R., Preethy, C. M., V., Asha C., & J., Adarsh K. (2021). Benthic biocoenosis: Influence of edaphic factors in the tropical mangroves of Cochin, Southern India. *Tropical Ecology*, 62(2), 246-257. <https://doi.org/10.1007/s42965-021-00050-0>
 21. Yesudas, A., **Jayachandran, P. R.**, Parameswaran, U. V., Vidyalakshmi, D., & Priyaja, P. (2021). Report on the association of valviferan isopod *Synidotea variegata* Collinge 1917 and regular sea urchin *Stomopneustes variolaris* Lamarck, 1816 from rocky subtidal regions of Vizhinjam, southwest coast of India. *Symbiosis*. Advance online publication. <https://doi.org/10.1007/s13199-021-00759-3>
 22. Prabhakaran, M. P., **Jayachandran, P. R.**, & Nandan, S. B. (2020). The occurrence of vulnerable seagrass species *Halophila beccarii* Ascherson, 1871 from restored mangrove of Koduvally estuary, south-west coast of India. *Lakes & Reservoirs: Research & Management*, 25(4), 328-332. <https://doi.org/10.1111/lre.12292>
 23. **Jayachandran, P. R.**, Jima, M., Philomina, J., et al. (2020). Assessment of benthic macroinvertebrate response to anthropogenic and natural disturbances in the Kodungallur-Azhikode estuary, southwest coast of India. *Environmental Monitoring and Assessment*, 192(10), 626. <https://doi.org/10.1007/s10661-020-08582-x>
 24. Neethu, K. V., Nandan, S. B., Xavier, N. D., **Jayachandran, P. R.**, Anu, P. R., Midhun, A. M., Mohan, D., & Marigoudar, S. R. (2020). A multibiomarker approach to assess lead toxicity on the black clam, *Villorita cyprinoides* (Gray, 1825), from Cochin estuarine system (CES), South West Coast, India. *Environmental Science and Pollution Research*, 27(30), 38052-38061. <https://doi.org/10.1007/s11356-020-10524-6>
 25. **Jayachandran, P. R.**, Nandan, S. B., Jima, M., Sreedevi, O. K., Joseph, P., & Prabhakaran, M. P. (2019). Bioecology of Macro-benthic Communities in the Microtidal

Monsoonal Kodungallur-Azhikode Estuary, Southwest Coast of India. *Lakes & Reservoirs: Research & Management*, 24(4), 295-303. <https://doi.org/10.1111/lre.12292>

26. Rahayu, D. L., **Jayachandran, P. R.**, Jima, M., Nandan, S. B., Hershey, R., & Prabhakaran, M. P. (2019). Notes on *Neorhynchoplax alcocki* (Kemp, 1917) and *Neorhynchoplax demeloi* (Kemp, 1917) from the Kochi backwater, India (Crustacea: Decapoda: Brachyura: Hymenosomatidae). *Thalassas*, 35(2), 327-333. <https://doi.org/10.1007/s41208-019-00176-w>
27. **Jayachandran, P. R.**, Aneesh, B., Oliver, P. G., Joseph, P., Jima, M., Krishnan, K. H., & Nandan, S. B. (2019). First record of an alien invasive biofouling mussel *Mytella strigata* (Hanley, 1843) (Mollusca: Mytilidae) from Indian waters. *BioInvasions Records*, 8(4), 828-837. <https://doi.org/10.3391/bir.2019.8.4.11>
28. Joseph, P., Nandan, S. B., Adarsh, K. J., Anu, P. R., Varghese, R., Sreelekshmi, S., Preethy, C. M., **Jayachandran, P. R.**, & Joseph, K. J. (2019). Heavy metal contamination in representative surface sediments of mangrove habitats of Cochin, Southern India. *Environmental Earth Sciences*, 78(18), 490. <https://doi.org/10.1007/s12665-019-8499-2>
29. Hershey N., R. N., Nandan, S. B., **Jayachandran, P. R.**, Vijay, A., Vasu, K. N., & Sudheesh, V. (2019). Nitrous oxide flux from a Tropical estuarine system (Cochin estuary, India). *Regional Studies in Marine Science*, 30, 100725. <https://doi.org/10.1016/j.rsma.2019.100725>
30. **Jayachandran, P. R.**, Nandan, S. B., Jima, M., Joseph, P., Sreedevi, O. K., Prabhakaran, M. P., & Joseph, K. J. (2019). Macrobenthic functional feeding groups in a microtidal monsoonal estuary (Kodungallur-Azhikode estuary, India). *Regional Studies in Marine Science*, 25. <https://doi.org/10.1016/j.rsma.2018.100444>
31. Oliver, P. G., Hallan, A., **Jayachandran, P. R.**, Joseph, P., Sanu, V. F., & Nandan, S. B. (2018). Taxonomy of myid bivalves from fragmented brackish-water habitats in Indian Backwaters, with a description of a new genus *Indosphenia* (Myida, Myoidea, Myidae). *ZooKeys*, 799, 21-46. <https://doi.org/10.3897/zookeys.799.25843>
32. Xavier, N. D., Nandan, S. B., **Jayachandran, P. R.**, Anu, P. R., Midhun, A. M., & Mohan, D. (2019). Chronic effects of Copper and Zinc on the fish, *Etroplus suratensis* (Bloch, 1790) by Continuous Flow Through (CFT) bioassay. *Marine Environmental Research*, 143, 141-157. <https://doi.org/10.1016/j.marenvres.2018.11.002>
33. Anu, P. R., Nandan, S. B., **Jayachandran, P. R.**, Xavier, N. D., Midhun, A. M., & Mohan, D. (2018). Toxicity effects of zinc on two marine diatoms, under varying macronutrient environment. *Marine Environmental Research*, 142, 275-285. <https://doi.org/10.1016/j.marenvres.2018.10.013>
34. Joseph, P., Nandan, S. B., & **Jayachandran, P. R.** (2018). New species of *Victoriopisa* Karaman & Barnard, 1979 (Crustacea: Amphipoda: Eriopisidae) from Vembanad backwaters, Southwest coast of India. *Zootaxa*, 4433(1), 69-70. <https://doi.org/10.11646/zootaxa.4433.1.3>

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39. **Jayachandran, P. R.**, Nandan, S. B., Sanu, V. F., Jima, M., Anu, P. R., Xavier, N. D., Joseph, P., Midhun, A. M., & Asha, C. V. (2018). Authentication of *Nassodonta insignis* H. Adams, 1867 (Gastropoda: Nassariidae) from the Kodungallur - Azhikode backwater, southwest coast of India using mitochondrial COI marker. *Indian Journal of Geo-Marine Sciences*, 47(3), 623-628. Retrieved from nopr.niscair.res.in/handle/123456789/44121
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Other publications

1. **Jayachandran, P. R.**, Aneesh, B. P., Hallan, A., Vishnudattan, N. K., Jima, M., Radhika, R., & Nandan, S. B. (2021). Note on planorbid snail genus *Amerianna* Strand, 1928 (Gastropoda, Planorbidae) in India. *Records of the Zoological Survey of India*, 121(4), 487–492. Retrieved from <http://recordsofzsi.com/index.php/zsoi/article/view/159888/115324>

2. **Jayachandran, P. R.**, Nandan, S. B., Sreedevi, O. K., & Sanu, V. F. (2013). Influences of environmental factors on fish assemblage in the tropical estuary of the south-west coast of India: A case study of Kodungallur-Azhikode Estuary. *International Journal of Marine Science*, 3(2), 4-16. doi: 10.5376/ijms.2013.03.0002
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4. **Jayachandran, P. R.**, Prabhakaran, M. P., Asha, C. V., Vijay, A., & Nandan, S. B. (2015). First report on mass reproductive swarming of a polychaete worm, *Dendronereis aestuarina* (Annelida, Nereididae) Southern 1921, from a freshwater environment in the southwest coast of India. *International Journal of Marine Science*, 5(3), 1-7. doi: 10.5376/ijms.2015.05.0003
5. Nandan, S. B., Krishnapriya, P. P., Vijay, A., Asha, C. V., **Jayachandran, P. R.**, & Krishnan, K. P. (2016). Benthic faunal assemblage of the Arctic Kongsfjorden System, Norway. *International Journal of Marine Science*, 6(54), 1-8. doi: 10.5376/ijms.2016.06.0054
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Papers published in Seminars/Symposia Proceedings

1. Sanu, V. F., **Jayachandran, P. R.**, Sreedevi, O. K., & Nandan, S. B. (2010). Fishery catch structure of Kodungallur-Azhikode estuary and its sustainable management. In C. Cherian, N. Chandramohanakumar, S. B. Nandan, O. V. Reethamma, I. Neerakkal, & A. Augustine (Eds.), *Green Path to Sustainability: Prospects and Challenges* (pp. 223-231). ISBN: 978-81-907269-9-3.
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3. Jima, M., Nandan, S. B., Sanu, V. F., Radhika, R., & **Jayachandran, P. R.** (2015). Community structure and systematics of arrow worms (Phylum Chaetognatha) from the lagoons of Lakshadweep archipelago, India. In *Biodiversity and evaluation: perspectives and paradigm shifts* (pp. 296-298). In B. Nandan, S. Kumar, M. K. D., & R. Babu (Eds.). ISBN: 978-93-80095-70-7.

Popular articles (Malayalam)

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2. നീർക്കരയിയുടെ ലോകം: ബഹിരാകാശത്തോളം [Newspaper article]. (2021, August 21). Deshabhimani. Retrieved from <https://epaper.deshabhimani.com/m5/3202240/Kilivathil/Thiruvananthapuram-21st-August-2021>

Book chapters

1. Mydhili, G. S., Kumar, B. S., & **Jayachandran, P. R.** (2022). Note on Impact of Aquaculture on Environment and Vice Versa. *EIACP: Geodiversity and Impact on Environment*, 27(2), 22-25. eISSN: 0974-1356, pISSN: 0974-1364.
2. **Jayachandran, P. R.**, Nandan, S. B., Jima, M., Philomina, J., & Vishnudattan, N. K. (2022). Benthic organisms as an ecological tool for monitoring coastal and marine ecosystem health. In P. G. Salom Gnana Vincent & S. Krishnakumar (Eds.), *Ecology and Biodiversity of Benthos* (pp. 417). Elsevier. ISBN: 9780128211618.
3. Nandan, S. B., Asha, C. V., Vijay, A., & **Jayachandran, P. R.** (2013). Benthic faunal assemblage - Diversity and Time Scale Changes in the ice cold Kongsfjorden Arctic Ecosystem. In S. Sundaresan, P. Gupta, K. M. Santosh, & R. Boojh (Eds.), *Climate change and Himalayan Informatics* (pp. 184). Scientific Publishers (India). ISBN: 978-81-7233-846-6; eISBN: 978-93-86237-65-1.
4. Prabhakaran, M. P., Pillai, N. G. K., **Jayachandran, P. R.**, & Nandan, S. B. (2013). Species Composition and Distribution of Sponges (Phylum: Porifera) in the Seagrass Ecosystem of Minicoy Atoll, Lakshadweep, India. In K. Venkataraman, C. Sivaperuman, & C. Raghunathan (Eds.), *Ecology and Conservation of Tropical Marine Faunal Communities* (pp. 43-54). Springer Berlin Heidelberg. ISBN 978-3-642-38199-7, ISBN 978-3-642-38200-0 (eBook) DOI 10.1007/978-3-642-38200-0.
5. Prabhakaran, M. P., **Jayachandran, P. R.**, & Nandan, S. B. (2015). Species composition, distribution and abundance of fishes of the order Perciformes in seagrass ecosystem of Minicoy Lagoon, Lakshadweep. In A. Biju, P. A. Koshy, & R. Sreeja (Eds.), *Marine and Coastal Biodiversity* (pp. 76-84). APH Publishing Company (India). ISBN 978-93-313-2566-2.
6. Nandan, S. B., **Jayachandran, P. R.**, & Asha, C. V. (2016). Sampling techniques for molluscan fauna. In S. B. Nandan, P. G. Oliver, P. R. Jayachandran, & C. V. Asha (Eds.), *Training manual -1st International Training Workshop on Taxonomy of Bivalve Molluscs* (pp. 105-114). Directorate of Public Relations and Publications.
10. **Jayachandran, P. R.**, Jima, M., Krishnapriya, P. P., Aswathy, N. K., & Nandan, S. B. (2018). Bioecological Characteristics of Meiofauna. In S. B. Nandan, J. Sharma, & P. R. Jayachandran (Eds.), *Monograph on Benthic Meiofauna - Training manual of*

International Workshop on Meiofauna (pp. 189-204). Directorate of Public Relations and Publications, CUSAT, Kochi, India.

11. Nandan, S. B., Joseph, P., & **Jayachandran, P. R.** (2019). The recent benthic observations from coastal wetlands of central Kerala, India. In S. B. Nandan, P. Priyaja, & P. R. Jayachandran (Eds.), *Compendium on advances in benthic studies: souvenir of the International Conference on Benthos (ICB 2019)* (pp. 272). Directorate of Public Relations and Publications, CUSAT, Kochi, India. ISBN 978-81-936217-6-9.

Training manuals

1. Sharma, J., Annapurna, C., Ansari, K. G. M. T., Khan, S. A., Ingole, B., Krishnan, H. K., Jaleel, A. K. U., Minu, M., **Jayachandran, P. R.**, Jima, M., Krishnapriya, P. P., Aswathy, N. K., & Nandan, S. B. (2018). Monograph on Benthic Meiofauna - Training manual of International Workshop on Meiofauna. In S. B. Nandan, J. Sharma, & **Jayachandran P. R.** (Eds.), Directorate of Public Relations and Publications, CUSAT, Kochi, India. (pp. 250). ISBN 978-93-80095-88-2.
2. Ramakrishna, N. V., Subba Rao, K., Mohamed, S., Sasikumar, G., Appukuttan, K. K., Kumar, A. B., Ravinesh, R., Krishnan, H., Arjun, J. K., Nandan, S. B., **Jayachandran, P. R.**, Asha, C. V., Oliver, P. G., Apte, D., Dutta, S., & Babu, I. (2016). Training manual - 1st International Training Workshop on Taxonomy of Bivalve Molluscs. In S. B. Nandan, P. G. Oliver, P. R. Jayachandran, C. V. Asha (Eds.), Directorate of Public Relations and Publications, CUSAT. (pp. 349). ISBN 978-93-80095-79-0.

Reports submitted

1. KSCSTE. (2013). Ecology and Fish Production Potential of the Kodungallur-Azhikode Backwater Ecosystem.
2. ICMAM-PD. (2018). Project on Sea Water Quality Criteria Toxicity Effects of Selected Heavy Metals and Pesticides on Marine Organisms.

Subject editor assignments (Journal)

- One Ecosystem (Pensoft Publishers)

Books edited

1. Sharma, J., Annapurna, C., Ansari, T., Khan, S. A., Ingole, B., Krishnan, H., Jaleel, A. K. U., Minu, M., **Jayachandran, P. R.**, Jima, M., Krishnapriya, P. P., Aswathy, N. K., & Nandan, S. B. (2018). Monograph on Benthic Meiofauna – Training manual of International Workshop on Meiofauna (B. Nandan, J. Sharma, & P. R. Jayachandran, Eds.). Directorate of Public Relations and Publications, CUSAT.
2. Ramakrishna, N. V., Subba Rao, K., Mohamed, S., Sasikumar, G., Appukuttan, K. K., Kumar, A. B., Ravinesh, R., Krishnan, H., Arjun, J. K., Nandan, S. B., **Jayachandran, P. R.**, Asha, C. V., Oliver, P. G., Apte, D., Dutta, S., & Babu, I. (2016). Training manual - 1st International Training Workshop on Taxonomy of Bivalve Molluscs (S. B. Nandan, P. G. Oliver, P. R. Jayachandran, C. V. Asha, Eds.). Directorate of Public Relations and Publications, CUSAT.

3. Nandan, S. B., Priyaja, P., Antony, S. P., Padmakumar, K. B., Harikrishnan, M., Sreerekha, P. R., & **Jayachandran, P. R.** (2019). Abstract proceedings - International Conference on Benthos. Directorate of Public Relations and Publications for Department of Marine Biology, Microbiology and Biochemistry, CUSAT.
4. Nandan, S. B., Priyaja, P., & **Jayachandran, P. R.** (2019). Compendium on advances in benthic studies: souvenir of the International Conference on Benthos (ICB 2019). Directorate of Public Relations and Publications, CUSAT.
5. Nandan, S. B., Priyaja, P., & **Jayachandran, P. R.** (Eds.). (2020). *Frontiers in Benthic Science*. Directorate of Public Relations and Publications, CUSAT.

Abstracts presented.

1. **Jayachandran, P. R.**, Nandan, S. B., Jima, M., Philomina, J., Praved, P. H., & Neethu, K. V. (2019). Is Cochin Backwater a Hot Spot of Biological Invasions? In *Advances in Coastal Research with Special Reference to Indo Pacific-2019* (pp. 17-19). NIOT Campus, Chennai.
2. **Jayachandran, P. R.**, & Nandan, S. B. (2010). Effect of pollution on benthic fauna in the Thane Creek, Mumbai. In National conference held at St. Joseph College for women, Alappuzha, Kerala (pp. 28-29).
3. **Jayachandran, P. R.**, & Nandan, S. B. (2010). Primary Production Pattern and Its influence on a Mesohaline Micro-tidal tropical Estuary. In *Lake 2010: Wetlands, Biodiversity and Climate Change* (pp. 22-24). Indian Institute of Science (IISc), Bangalore, India.
4. **Jayachandran, P. R.**, & Nandan, S. B. (2011). Spatio-temporal variability of hydrographic conditions in the Kodungallur Azhikode Estuary, West coast of India. In *23rd Kerala Science Congress 2011* (p. [page number]). Centre for Earth Science Studies, Akkulam, Thiruvananthapuram.
5. **Jayachandran, P. R.** (2018). Benthic meiofauna of Cochin backwaters. In *Coastal and estuarine ecosystem conservation and management (Environment Management Training -EMT 2018)* conducted by the Department of Botany, Maharajas College (pp. 3-8).
6. **Jayachandran, P. R.**, & Nandan, S. B. (2019). Macrobenthic biocoenosis in a microtidal monsoonal estuary (Kodungallur-Azhikode estuary, south-west coast of India). In *Abstract proceedings- International Conference on Benthos* (pp. 175). S. B. Nandan, P. Priyaja, S. P. Antony, K. B. Padmakumar, M. Harikrishnan, P. R. Sreerekha, & P. R. Jayachandran (Eds.). Directorate of Public Relations and Publications for Department of Marine Biology, Microbiology and Biochemistry, CUSAT, Kochi, India.

Reviewer assignments

1. Ecological Indicators, Elsevier B.V.
2. Marine Pollution Bulletin, Elsevier
3. Estuarine, Coastal and Shelf Science, Elsevier
4. Acta Ecologica Sinica, Elsevier
5. Wetland, Springer Nature Switzerland

6. Indian Journal of Geo-Marine Sciences, National Institute of Science Communication and Information Resources, CSIR, New Delhi
7. Journal of Threatened Taxa, Wildlife Information Liaison Development Society
8. Journal of Aquatic Biology & Fisheries, Department of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram 695 581, Kerala, India

Invited lectures / presentations / Training

1. Trainer at Hands on Training and Workshop on “**Software Packages in Ecological Research**” conducted by the Department of Botany and IQAC, Maharajas College on 22nd July 2022.
2. Invited speaker on the topic “An Insight into the Biological Carbon Cycle in the Ocean” in **Frontiers in Modern Zoology (FIMZ - 2021)** conducted by the Post Graduate and Research Department of Zoology, C. Abdul Hakeem College (Autonomous), Melvisharam, Tamil Nadu, India from 28th-29th October 2021.
3. Invited speaker on the topic “**Wetland Biodiversity: Why it matters**” in World Wetland Day, 2020 celebrations conducted by the Department of Zoology, K.K.T.M. College, Pullut, Kodungallur, Kerala on 5th February 2020.
4. Invited speaker on the topic “**Benthic meiofaunal of Cochin backwaters**” in Coastal and estuarine ecosystem conservation and management (Environment Management Training -EMT 2018) conducted by the Department of Botany, Maharajas College on 3rd to 8th December 2018.
5. Invited speaker on the topic “**Marine Pollution**” in a workshop on the impact of environmental pollution in marine systems conducted by the Central Board of Indirect Taxes and Customs, Government of India, at the Custom House, Willingdon Island, Cochin, Kerala, India on 27th June 2019.

Genus / Species described

Genus:

1. *Indosphenia* **nov. gen.** (Oliver, Hallan & **Jayachandran**, 2018)

Species:

2. *Indosphenia Kayalum* **nov. sp.** (Oliver, Hallan & **Jayachandran**, 2018)
3. *Victoriopisa cusatensis* **nov. sp.** (Philomina, Bijoy Nandan & **Jayachandran**, 2018)
4. *Stygarctus keralensis* Vishnudattan, Bijoy Nandan, Hansen & Jayachandran sp. nov.
5. *Xylophaga Nandani* Velasquez, **Jayachandran**, Jima (2021) **nov. sp.**

Participation in Seminar / Conference

1. National Seminar on “Impact of Sethusamudram project along the Kerala Coast” organised by Rajeev Gandhi chair in Contemporary studies, CUSAT on 18th October 2007.

2. National workshop "Environmental management reform for sustainable farming, fisheries and aquaculture (AquAgris)" organised by School of Industrial Fisheries, CUSAT on 16th November 2007.
3. National symposium "Conservation and management of aquatic ecosystems" organised by St. Albert's College, Ernakulam on 26th and 27th March 2007.
4. National seminar "Bioactive compounds from marine organisms" organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT from 14 to 15th March 2008.
5. National seminar "Perspective of remote sensing on earth resources" organised by Swasraya Bharath 2009 on 16th October 2009.
6. National Workshop on "Intellectual property rights and economic development in knowledge era" organised by Sophisticated Test and Instrumentation facility, CUSAT on 11th December 2009.
7. International workshops on "Climate change and environment" and "Climate change and Island vulnerability" National Institute of Science Communication and Information Resources, New Delhi 24th to 26th October 2010.
8. National Seminar on "Biodiversity" organised by Swasraya Bharath 2010 on 17th December 2010.
9. Seminar and workshop on "The use of alternatives to animals in life science education" organised by Rajeev Gandhi chair, CUSAT on 9th March 2010.
10. National symposium on "Impact of climate change on Aquatic ecosystems" NSICCAE 2010 on 18th -19th February 2010.
11. National seminar on "Greening the forest for safe life" organised by Swasraya Bharath 2011 on 16th December 2011.
12. National seminar on 'Harmful Algal Blooms (HAB)' organised by Swasraya Bharath 2011 on 8th December 2011.
13. Seminar and Lab to field program on "Mangrove propagation and conservation" organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT from 12th July 2012.
14. National seminar on 'Health and environment' organised by Swasraya Bharath 2012 on 23rd January 2013.
15. National seminar on "Bioinformatics in marine biology: next generation sequencing technology and applications" organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 23rd March 2013.
16. National seminar on "Climate change and marine ecosystems (CCME 2014)" organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 20th to 21st March 2014.

17. National seminar on “National seminar on marine ecosystem health (MEH)” organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 12th to 13st March 2015.
18. National workshop on “Status of Periyar River quality in eloor-edayar region and future plan” organised by Kerala pollution control board on 1st August 2015.
19. “World Ocean Science Congress 2015” organised by Swadeshi Science Movement and Kerala University of Fisheries and Ocean studies on 5th to 8th February 2015.
20. International conference on “Biodiversity evaluation: perspective and paradigm shifts” organised by Sree Sankara College Kalady on 2nd and 3rd December 2015.
21. National seminar on “Marine biodiversity and bio-prospecting for sustainable livelihood (MBBSL 2016)” organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 21st to 22nd March 2016.
22. National seminar on “National seminar on marine ecosystem health (MEH)” organised by the Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 16th to 17th March 2017.
23. National conference on “Polar Science 2017” organised by ESSO-National Centre for Antarctic and Ocean Research on 16th to 17th May 2017.
24. National conclave on ‘Mangrove conservation’ on 12 December 2017.
25. International coastal cleanup day celebration and coastal cleanup organised by Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 15th September 2018.
26. Clean Sea Campaign and coastal cleanup organised by Department of Marine Biology, Microbiology and Biochemistry, CUSAT on 21st September 2019.

References

1. **Prof. (Dr.) S. Bijoy Nandan**

Vice Chancellor (Kannur University, Kerala, India)
Senior Professor and Dean (Faculty of Marine Sciences, CUSAT)
Department of Marine Biology, Microbiology and Biochemistry
School of Marine Sciences
Cochin University of Science and Technology
Fine Arts Avenue, Kochi, 682 016, Kerala, India
Telephone: 09446022880
E-mail: bijoynandan@yahoo.co.in

2. **Prof. (Dr.) M. Harikrishnan**

Professor
School of Industrial Fisheries
Cochin University of Science and Technology
Fine Arts Avenue, Kochi, 682 016, Kerala, India
Telephone: 09746604222
E-mail: mahadevhari@hotmail.com

3. **Dr. Thadickal V. Joydas**

Research Scientist I & Leader, Marine Group,
Applied Research Center for Environment and Marine Studies (CEMS)
Research Institute, King Fahd University of Petroleum and Minerals
Dhahran 31261 Kingdom of Saudi Arabia,
Email: tvjoydas@kfupm.edu.sa

I hereby declare that the information given above is correct and true to the best of my knowledge.



Jayachandran P.R.

Important links:

<https://www.scopus.com/authid/detail.uri?authorId=55171470500>

<https://scholar.google.co.in/citations?user=6kXknmMAAAAJ&hl=en>