

## Dr. SABU JOSEPH

Professor & Head,  
Dept. of Environmental Sciences  
Dean, Faculty of Applied Sciences & Technology  
University of Kerala (NAAC Grade A++), India

+91 471 2308146 (Off.)  
+91 94474 53063 (mobile)  
[jsabu@keralauniversity.ac.in](mailto:jsabu@keralauniversity.ac.in)  
[jsabu2020@gmail.com](mailto:jsabu2020@gmail.com)  
<http://www.keralauniversity.ac.in/dept/~sabu-joseph>  
<https://orcid.org/0000-0002-5415-588X>

H-index (Google Scholar) : 26

---

### RESEARCH INTERESTS

- Hydrogeochemistry, Isotope Hydrology, Ecosystem Service Valuation, Remote Sensing and GIS, Env. Geology

---

### EDUCATION

- Post-Ph.D.** (CSIR-RA) -1997-2001 in the Department of Geology, University of Kerala, India
- Ph.D.** - June 1997, Dept. of Geology, University of Kerala, India
- Master of Science** - Geology, 1988, **First Rank**, University of Kerala, India

---

### AWARDS AND HONOURS

- Senior Research Award in international conference ICEE-2021 by Jyothi Engineering College, Thrissur, India.
- Letter of Appreciation from Quds University and Hakim Sanaye University, Afghanistan, and from Vice Chancellor, University of Kerala for the efficient co-ordination of international students.
- Highest project grant award (2018-2019) offered by University of Kerala for bringing highest grant.
- Research Associateship (1997-2001) awarded by CSIR, New Delhi.
- Gold medal and merit certificate for First Rank in M. Sc Geology.

---

### EXECUTIVE SUMMARY OF SCIENTIFIC RESEARCH

h - index (Scopus)	: 21	Research Publication in Journals	: 97
h - index (Google Scholar)	: 26	Books published	: 4
i-10 index (Google Scholar)	: 38	Handbooks published	: 4
No. of citations (Research gate)	:1915	Book Chapters	: 15
No. of citations (Google Scholar)	:1994		
No. of citations ( Scopus )	:1234		

---

### PROFESSIONAL POSITIONS HELD

- NAAC Peer Team Member for assessment of universities and Colleges under UGC
- Dean, Faculty of Applied Sciences and Technology, University of Kerala (Since 2023)
- Head, Dept. of Environmental Science, University of Kerala (2017-2020; Since 2024)

- 
4. Hon. Director, Centre for Global Academics, University of Kerala (Since 2020)
  5. Hon. Director, University Finishing School, University of Kerala (Since 2017)
  6. Nodal Officer, Green Protocol Activities (Since 2021)
  7. Director, School of Earth System Sciences, University of Kerala (2020-2023)
  8. Chairman, Board of Studies in Env. Science, University of Kerala (2020-2023)
  9. Hon. Director, Consultancy Cell, University of Kerala (2019-June 2023)
  10. Member, Research Council, University of Kerala (Since 2018)
  11. Convener, Institution Innovation Council, University of Kerala (Since 2018)
  12. Member, Minority Cell, University of Kerala (Since 2021)
  13. Technical Committee Member in Kerala government departments - Suchithwa Mission; Biodiversity Board; Integrated Rural Technology Centre (IRTC)
  14. Advisory Committee Member of ENVIS-HUB, KSCSTE, Government of Kerala
  15. Advisory Committee Member of Environment and Ecology Committee, KSCSTE, Government of Kerala
  16. Expert Committee Member of SSW, KSCSTE, Government of Kerala
  17. Expert panel member in Kerala State Pollution Control Board
  18. Chairman of Academic Committee in Env. Science and Member of Academic Council at Sree Narayana Guru Open University, Kerala
  19. Board of Studies Member in various universities - CUSAT, Kochi; Calicut University, Calicut; Central University, Kasargod; Pondicherry University; Open University, Mysore; Christ College, Iringalakkuda.
  20. Governing Council & Academic Council Member, Mar Ivanios College, Trivandrum, Kerala (2020-2023)
- 

## **TEACHING EXPERIENCE**

- 22 years of teaching experience at Post Graduate level teaching following core subjects.
  - Environmental Impact Assessment-EIA (3 credit), Remote Sensing and GIS (4 credit), Environmental Geology (4 credit), Environmental Chemistry (4 credit), and Disaster Management- elective (2 credit).
- 

## **RESEARCH GUIDANCE**

- 13 students awarded Ph.D; Currently supervising 8 Ph.D Indian & one international student.
  - Mentor of three D.S. Kothari Postdoctoral Fellows and one University PDF.
  - Dissertation guidance given to 43 M.Phil and 47 M.Sc students. Currently guiding 6 M.Sc students.
- 

## **MOU INITIATED**

As Co-ordinator, MoU with Leibniz Centre for Tropical Marine Research (ZMT), Bremen, Germany.  
As Co-ordinator, MoU with Louisiana State University, USA.

---

## **PROFESSIONAL ASSOCIATIONS MEMBERSHIP AND ACTIVITIES**

1. Member of the International Water Association (IWA)
  2. Member, International Association of Hydrological Sciences (IAHS)
  3. Member, International Association of Hydrogeologists (IAH)
  4. Life Member Fellow of the Geological Society of India
-

- 
5. Executive Committee Member of Geological Society of Kerala, India
  6. Academic committee member of ACESSD, M.G University, Kerala, India
- 

### JOURNAL COMMITTEE

1. Editorial Board Member of Current World Environment Journal
2. Chief Editor of Journal of Integrated Earth Science
3. Reviewer of Spatial Information Research (Springer Journal), Groundwater for Sustainable Development (Elsevier Journal), Geothermics (Elsevier), Geoscience Frontiers, Environmental Science and Pollution Research, Geological Society of India etc.

### INTERNATIONAL PROJECT

Indo-Israel (UGC-ISF) 3 years (2017 – 2020) joint international project on "Ecosystem service evaluation of wetlands of Kerala" funded by Israel Science Foundation (ISF), Israel and University Grants Commission (UGC), India. **Rs. 6.45 million.**

---

### NATIONAL PROJECT

1. Two years project (2012-2023) on “Village level aquifer recharge – Amboory Village, Kerala” Funded by DOECC, Govt. of Kerala for **Rs. 2.1 million.**
  2. Major project (3 years; 2016 – 2019) Environmental isotope investigation to assess surface water-groundwater interactions in Karamana River Basin, Kerala. DAE-BRNS, Mumbai. **Total outlay of Rs. 2.7191 million.**
  3. Major project (3 years; 2012 - 2015) Nutrient influx and phytoplankton dynamics in Meenachil river and their impact on productivity of Vembanad lake, Kerala. UGC, New Delhi. **Total outlay of Rs. 1.066 million.**
  4. Major project (3 years; 2009 - 2015) entitled “Application of isotopic techniques in assessing the sedimentation rates and pattern of sedimentation in the Vellayani freshwater lake, Trivandrum, Kerala” Sponsored by: DST, New Delhi. **Total Outlay of Rs. 0.984 million.**
  5. One and half year project (Duration: 2011 - 2012). River bank mapping and sand budgeting of Vamanapuram river, Kerala, funded by Revenue Department, Govt. of Kerala, India. **Total outlay of Rs. 0.950 million.**
  6. Major project (3 years; 2005 - 2008) “Nutrient and pesticide analysis in surface and groundwater and sediments in Bharathapuzha river basin, Kerala” sponsored by UGC, New Delhi. **Total outlay of Rs. 0.435 million.**
- 

### BOOKS PUBLISHED

1. Sukanya S and **Sabu Joseph** (2023) Environmental Radon: A Tracer for Hydrological Studies. 184P. Springer Publication, Singapore. ISBN 9789819926718.
2. **Sabu Joseph** and Arunkumar K.S. (2022). Environmental Impact Assessment of Developmental Projects. Narendra Publications, New Delhi, India. 236p. ISBN 9789392851186.
3. S. Selvakumar, N. Chandrasekar and **Sabu Joseph** (2021). Hydrogeochemical Characteristics and Human Health Risk. Lap Lambert Academic Publishing. ISBN 978-620-4-71534-6.
4. Handbook on “Landslides and Landslips in Kerala (2022): Disaster Mitigation Strategies” published by Dept. of Env. Sciences, Univ. of Kerala. ISBN: 978-93-56205529.
5. Handbook on Solid Waste Management (2021). Editors: Sabu Joseph & Vishnu Sagar, M.K. Published by Southern Book Star. ISBN: 978-81-86660-39-3.
6. Handbook on “Biogeochemistry” (2014) Editors. Dr. Sabu Joseph, Dr. V. Salom Gnana Thanga and Jaya.
7. Handbook on “Environmental Impact Assessment” (2012). Editor. Dr. Sabu Joseph, Dept. of Env. Sciences.

---

## LIST OF BOOK CHAPTERS

1. Vishnu Sagar M.K, \***Sabu Joseph** and Others (2024). Ecosystem Service Valuation and Assessment of a Coastal Ramsar Site in South West India. In “Ecosystem valuation for sustainable development (eds. Sabu Joseph, A.P Pradeepkumar). Springer publication (in press).
  2. J. B. Jibitha and \***Sabu Joseph (2023)**. Land use/land cover change detection for climate-smart sustainable management in the selected river basins of Kerala, India. In Ecohydrology of River Catchments and Coastal Backwaters in Kerala, India. Elsevier publication (in press).
  3. Vishnu Sagar M.K, Sheela. A.M and **Sabu Joseph (2023)**. Identification of Pollution Potential Zones of a Coastal Lake System Using GIS Techniques. In Ecohydrology of River Catchments and Coastal Backwaters in Kerala, India. Elsevier publication (in press).
  4. **Sabu Joseph (2023)**. Climate change: concepts, impact in India and mitigations. PP. 42-62. In Climate change and Sustainable development (ed. Dr. Rani Pavithran). Barter Publishing. ISBN 9 788195 928071.
  5. Prajisha, C.K, Achu, A.L and **Sabu Joseph (2022)**. Book chapter entitled “Landslide susceptibility modeling using a generalized linear model in a tropical river basin of the Southern Western Ghats, India” in Science of Sustainable Systems “Water, Land, and Forest Susceptibility and Sustainability Geospatial Approaches and Modeling” Elsevier Publications. PP. 237-266. ISBN: 978-0-323-91880-0.
  6. Sukanya, S and **Sabu Joseph (2022)**. Climate change impact on water resources an overview in Visualization techniques for climate change with machine learning and artificial intelligence. Elsevier. DOI: <https://doi.org/10.1016/B978-0-323-99714-0.00008-X>
  7. **Sabu Joseph (2020)**. Solid Waste Management: an Overview. In a Handbook on Solid waste Management (eds. Sabu Joseph & Vishnu Sagar, M.K) published by Southern Book Star. ISBN: **978-81-86660-39-3**.
  8. Michael Sinclair, Andrea Ghermandi, Sheela A. Moses and **Joseph Sabu (2020)**. Ecosystem service assessment and mapping for sustainable management of wetlands in Kerala, India. In: Environmental Assessments: Scenarios, Modelling and Policy. Edited by KN Ninan. Edward Elgar Publishing. pp. 200-214. ISBN: 978 1 78897 686 2.
  9. **Sabu Joseph 2014**. Environmental impact assessment (EIA): In “Environment, Tourism and Development International Perspectives” 2014 (editor: Dr. B. Vijayakumar) pp.80-111. Published by Kerala Institute of Tourism and Travel Study (KITTS).
  10. **Sabu Joseph, Vinod, M.V and Prakash, T.N (2013)**. Studies on the beach erosion and accretion and textural characteristics of sediments of Androth island, Union territory of Lakshadweep, India in “Climate Change Impact on Ecosystem” (Editors: J. Sundaresan et al), SP Scientific Publishers India, 2013. PP. 38-51.
  11. **Sabu Joseph, Byma Benziger and Jobin Thomas (2009)**. Hydrochemistry and Environmental Status of Pazhayar River, Kanyakumari district, southern Tamil Nadu in Recent Trends in Water Research: Hydrochemical and Hydrological Perspectives (eds. S. Chidambaram, A.L. Ramanathan, K. Shivanna and R. Arthur James), I.K. International Publishing House, New Delhi.
  12. **Sabu Joseph and Thrivikramaji, K.P (2002)** The Neyyar river basin, Kerala, India: A Hydrogeochemical portrait in Water Quality (eds. A.L. Ramanathan and V. Subramanian), Capital Publishing company, New Delhi.
  13. Thrivikramaji K.P. and **Sabu Joseph (2001)** Solute variation in some minor watersheds, Kerala, India. Ecohydrology (eds. V. Subramanian and A.L. Ramanathan, JNU, New Delhi), Capital Publishing Company, New Delhi, PP.295-304.
-

## JOURNAL PUBLICATIONS

### Total List of Publications in International and National Journals : 97

1. Akhil R.V., **Sabu Joseph**, S. Sukanya (2024). Health risk assessment of radon in groundwater of a tropical river basin, SW India. Journal of Radioanalytical and Nuclear Chemistry. (IF= 1.6) <https://doi.org/10.1007/s10967-024-09426-5>.
2. Jibitha J.B., Achu, A.L, **Sabu Joseph** and Others (2024). Assessment of changes in land use/land cover and land surface temperature in a fast-growing urban agglomeration of Southern India. Environment, Development and Sustainability (IF= 4.7). <https://doi.org/10.1007/s10668-024-04494-9>.
3. Lakshmi, M, Jobin Thomas and **Sabu Joseph** (2024). Impacts of Recent Rainfall Changes on Agricultural Productivity and Water Resources within the Southern Western Ghats of Kerala, India. Environ Monit Assess. 196:115 (IF= 3.30). <https://doi.org/10.1007/s10661-023-12270-x>.
4. Anula Susan Varughese and **Sabu Joseph** (2023). Influence of invasive plant species on soil properties in tropical riparian zones. Pollution Research 42 (1) : 105-109. <http://doi.org/10.53550/PR.2023.v42i01.016>.
5. Kannan, N; Krishnakumar and **Sabu Joseph** (2022). Assessment of Deep Aquifer Groundwater Quality in a Geographically Unique Climatic Region of Southern Western Ghats, India using Water Quality Indices. Environmental Quality Management. Wiley Publications. <https://doi.org/10.1002/tqem.21953>.
6. Selvakumar Sellamuthu, **Sabu Joseph**, and others (2022). Appraisal of groundwater quality for drinking and irrigational purpose using multivariate statistical approach in a rapidly developing urban area in Tirunelveli, Tamil Nadu, India. Environmental Science and Pollution Research. (2022). (IF=5.2). <http://dx.doi.org/10.1007/s11356-022-23533-4>
7. Vishnu Sagar, **Sabu Joseph**, and others (2022). A coastal Ramsar site on transition to hypoxia and tracking pollution sources: a case study of south-west coast of India. Environ Monit Assess(2022) 195:45.(IF=3.307). <https://doi.org/10.1007/s10661-022-10602-x>
8. Anurani, **Sabu Joseph** and Selvakumar (2022). Seasonal and geological controls of radon (<sup>222</sup>Rn) in groundwater of Vamanapuram river basin, SW India. Geocarto International journal. Taylor and Francis (IF= 3.51). <https://doi.org/10.1080/10106049.2022.2142961>
9. Anula Susan and **Sabu Joseph** (2022). Influence of invasive plant species on soil properties in tropical riparian zones. Pollution Research. EM International. <https://doi.org/10.53550/PR.2023.v42i01.016>.
10. M.K Vishnu Sagar, **Sabu Joseph**, Arun Kumar, AM Sheela, Andrea Ghermandi and Amit Kumar (2022). A coastal Ramsar site on transition to hypoxia and tracking pollution sources: A case study of South-West coast of India. Environmental Monitoring and assessment. <https://doi.org/10.1007/s10661-022-10602-x> (IF= 3.52).
11. Kannan, N and **Sabu Joseph** (2022). Spatio-temporal variations in hydrochemistry and quality of surface water in Bharathapuzha River Basin, Kerala, India. Water Science, V.36 (1) pp.70-84. <https://doi.org/10.1080/23570008.2022.2127556>.
12. S. Sukanya, Jacob Noble, **Sabu Joseph** (2022). Application of radon (<sup>222</sup>Rn) as an environmental tracer in hydrogeological and geological investigations: An overview. Chemosphere, V.303, Part 3, September 2022, 135141. <https://doi.org/10.1016/j.chemosphere.2022.135141>. Elsevier: (IF= 8.94).
13. S Chithra, **Sabu Joseph** and N Kannan (2022). A study on salt water intrusion in Kallada river, Southwest coast of India. Water Supply. Water Supply. 22 (2), 2194-2211.DOI: <http://10.2166/ws.2021.367>. (IF= 1.768).
14. B S Anzamol and **Sabu Joseph** ((2022). Evaluation of eutrophication status of Poovar estuary, Southern Kerala, India. Pollu. Res. 41 (1), 201-205. ISSN 027 8050.

15. **Sabu Joseph**, Rahul R and Sukanya, S. (2021). Land Use/Land Cover (LU/LC) Changes and its impact on Soil Organic Carbon Stock in Killiar River Basin, Kerala, India: A Geospatial Approach. *Current World Environment*. V.16, No. 3, pp. 665-678. <http://dx.doi.org/10.12944/CWE.16.3.2>
16. Sijimol, M.R, Mansa M L and **Sabu Joseph\*** (2021). Analysis of Potential of Napier grass, Vetiver and Equisetum plants for the Treatment of Domestic Greywater using Box type Constructed Wetlands. *Water Science and Technology*. DOI: 10.2166/wst.2021.289. (IF= 2.43).
17. Nivedi, Vishnu Sagar M.K and **Sabu Joseph\*** (2021). An Appraisal of Nutrient Status and Productivity with Emphasis on Phytoplankton Assemblage in Karamana River, Kerala, India. *Water Science and Technology*. DOI: 10.2166/wst.2021.260. (IF= 2.43).
18. Sijimol M R and **Sabu Joseph\*** (2021). Constructed Wetland Systems for Greywater Treatment and Reuse- A Review. *Journal of Environmental Management*. 5 (3), 357-369. DOI 10.1007/s42108-021-00129-1.
19. Anurani G R, Lakshmi R, **Sabu Joseph\***, Sukanya, S (2021). Evaluation of Radon ( $^{222}\text{Rn}$ ) distribution and its implications vis-à-vis water quality in the surface water of Killiyar river, Kerala, India. *Current World Environment*. V. 16, No. 1, pp. 94-104. <http://dx.doi.org/10.12944/CWE.16.1.10>.
20. Kannan, N, **Sabu Joseph\*** and Sheela M (2021). Characterization of Groundwater in Shallow and Deep Aquifers of Agriculture Dominated Bharathapuzha River Basin, Kerala, India: A Multivariate and GIS Approach. *Indian Journal of Remote Sensing (Springer)*. [doi.org/10.1007/s12524-021-01356-z](https://doi.org/10.1007/s12524-021-01356-z),
21. Achu, A.L, **Sabu Joseph**, C. D. Aju and John Mathai (2021). Preliminary analysis of a catastrophic landslide event on 6 August 2020 at Pettimudi, Kerala State, India. *Landslides*. Springer. <https://doi.org/10.1007/s10346-020-01598-x> (IF= 6.153).
22. Michael Sinclair, Vishnu Sagar, Camilla Knudsen, **Joseph Sabu**, Andrea Ghermandi (2020). Economic appraisal of ecosystem services and restoration scenarios in a tropical coastal Ramsar wetland in India. *Journal of Ecosystem Services*, Elsevier. <https://doi.org/10.1016/j.ecoser.2020.101236>. (IF= 6.91).
23. **Sabu Joseph\***, M.R. Sijimol and Jobin Thomas, Sheela A.M (2020) Hydrogeochemical characterization of groundwater in the shallow coastal aquifers: A multivariate statistical approach. *International Journal of River Basin Management* (IF= 1.39): 1-12. <https://doi.org/10.1080/15715124.2020.1837143>.
24. Sukanya, S., Jacob Noble\*, **Sabu Joseph** (2020). Factors controlling the distribution of radon ( $^{222}\text{Rn}$ ) in groundwater of a tropical mountainous river basin in Southwest India. *Chemosphere*. Elsevier:263:128096. (IF=8.94). <https://doi.org/10.1016/j.chemosphere.2020.128096>. ISSN0045-6535.
25. Sukanya, S., **Sabu Joseph\*** and Jacob Noble (2020). Evaluation of radiation dose from radon ingestion and inhalation in groundwater of a small tropical river basin, Kerala, India. *Isotopes in Environmental and Health Studies* (Taylor & Francis):1-12. <https://doi.org/10.1080/10256016.2020.1835889> (IF. 1.652).
26. Sheeja, R.V., Sheela, A.M., Jaya, D.S and **Sabu Joseph** (2020). Assessment of Water Quality of a Tropical River with Special Reference to Ions. *Current Journal of Applied Science and Technology*; V. 39, pp.97-116. <https://doi.org/10.9734/cjast/2020/v39i1830779>.
27. Sukanya, S., **Joseph**, S. (2020) Water Quality Assessment using Environmetrics and Pollution Indices in a Tropical River, Kerala, SW Coast of India. *Curr. World Environ.* 15(1), pp. 11-23. <http://dx.doi.org/10.12944/CWE.15.1.04>.
28. Anitha, J.K., **Joseph**, S., Rejith, R.G. , Sundararajan, M. (2020) Monazite chemistry and its distribution along the coast of Neendakara–Kayamkulam belt, Kerala, India. *SN Appl. Sci.* 2, 812. <https://doi.org/10.1007/s42452-020-2594-6>. ISSN 2523-3963.



29. Anitha, J.K and **Sabu Joseph** (2019). Assessment of Uranium in the Groundwater along Neendakara-Kayamkulam Belt, Southwest Coast of India. *Ecology, Environment and Conservation*, V.2, 686-690.
30. Michael Slinger, Andrea Germandi, Sheela A Mosses, **Sabu Joseph** (2018). Recreation and environmental quality of tropical wetlands: A social media based spatial analysis. *Tourism Management* (Elsevier) 71 (2019) 179-186. <https://doi.org/10.1016/j.tourman.2018.10.018> (IF= 10.9).
31. Vinod Gopal V, Dhanya, G and **Sabu Joseph** (2018). Mechanisms controlling seasonal hydrochemistry of Vamanapuram river basin, Kerala, India. *Eco Chronicle*. V.13 (2), pp. 43-50.
32. Jobin Thomas, **Sabu Joseph** & K. P. Thirivikramji (2018). Estimation of soil erosion in a rain shadow river basin in the southern Western Ghats, India using RUSLE and transport limited sediment delivery function. *International Soil and Water Conservation Research* 6: 111-122. <https://doi.org/10.1016/j.iswcr.2017.12.001>. (IF= 7.481).
33. Jobin Thomas, **Sabu Joseph** & K. P. Thirivikramji (2018). Assessment of soil erosion in a tropical mountain river basin of southern Western Ghats, India using RUSLE and GIS. *Geoscience Frontiers* 9. 893-906. <https://doi.org/10.1016/j.gsf.2017.05.011> (IF= 7.483).
34. Jobin Thomas, **Sabu Joseph** & K. P. Thirivikramji (2018) Assessment of soil erosion in a monsoon dominated mountain river basin in India using RUSLE-SDR and AHP, *Hydrological Sciences Journal*, 63:4, 542-560, DOI: <https://doi.org/10.1080/02626667.2018.1429614> (IF= 3.942).
35. Alappat, L., **Joseph, Sabu**, Tsukamoto, S., Kaufhold, S., Frechen, M. (2017). Chronology and weathering history of red dunes (Teri Sands) in the southwest coast of Tamil Nadu, India. *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften (German Journal of Geology)*, **168**(1), pp.183-198. <https://doi.org/10.1127/zdgg/2016/0055> (IF= 0.509).
36. Majusree, T.M., **Sabu Joseph**, Marco Petitta and Jobin Thomas (2017). Integrated approach for identifying factors controlling groundwater quality of a tropical coastal zone in Kerala, India. *Jour. Env. Earth Sciences*. V.76 (14), p. 1-18. DOI 10.1007/s 12665-017-6818-z.
37. Prince George, **Sabu Joseph** and Sheela A mosses (2017). Heavy metal monitoring and health risk assessment of a tropical mountaineous river in Kerala, India. *International Journal of River Basin Management*, DOI: 10.1080/15715124.2017.1315813.
38. Prince George, **Sabu Joseph** and S Chidambaram (2017). Prominence of seasonal water quality assessment in a tropical river using multivariate analysis: Kerala, India. *Applied Water Science*, DOI 10.1007/s 13201-017-0595-4.
39. George, P., and **Joseph, S.** (2017). Appraisal of nutrient distribution in the surface water and bed sediments of a small mountainous river. *Environmental monitoring and assessment*, 189(4), 1-10.
40. Sheela Albert Moses, Letha Janaki, **Sabu Joseph**, Justus Joseph, Jobin Thomas, Pramodlal (2016). Prioritization of Pollution Potential Zones for Conservation Activities for a Lake System. *Lakes and Reservoirs: Research and Management* . 21: 188–205.
41. Vishnuprasad, M.R, **Sabu Joseph**, Unnikrishnan Warriar, C; Shahul Hameed, A, and Sheela A.M (2016). Identification of factors affecting the environmental carrying capacity of a freshwater tropical lake system. *Environmental Monitoring and Assessment*. 188 (11): 1-23. DOI 10.1007/s 10661-016-5636-1.
42. Prince George and **Sabu Joseph** (2016). Assessment on factors controlling nutrient dynamics in a small tropical river using multivariate analysis. *International journal of scientific and research publications*. V.6, issue 6. pp. ISSN 22503151.

43. Prince George, **Sabu Joseph** and S Chidambaram (2016). Seasonal appraisal of dissolved carbon distribution in a tropical river, Kerala, India. *Jour. Environ. Science & Engg.* V. 58, No.1, p. 51-56.
44. Sheela A. M., J. Letha, **Sabu Joseph**, Justus j. (2016). Performance Evaluation of Water Quality Models of a Tropical Lake System. *Lakes and Reservoirs: Research and Management.* 21: 82-93.
45. Sheela Albert. Moses, Letha Janaki, **Sabu Joseph**, Justus Joseph (2015). Exploration of Predictability of Water Quality of a Tropical Coastal Lake System using WASP. *Lakes and Reservoirs: Research and Management.* 20: 285-299.
46. Jobin Thomas, **Sabu Joseph** & K. P. Thirivikramji (2015). Discriminant analysis for characterization of hydrochemistry of two mountain river basins of contrasting climates in the southern Western Ghats, India. *Environ Monitoring and Assessment.* 187:365. DOI [10.1007/s10661-015-4589-0](https://doi.org/10.1007/s10661-015-4589-0).
47. Jobin Thomas, **Sabu Joseph** & K. P. Thirivikramji (2015). Hydrochemical variation of a tropical mountain river system in a rain shadow region of the southern Western Ghats, Kerala, India. *Applied Geochemistry* 63 (2015) 456-471.
48. Jobin Thomas, **Sabu Joseph** & K. P. Thirivikramji (2015). Hydrogeochemical Drivers and Processes Controlling Solute Chemistry of Two Mountain River Basins of Contrasting Climates in the Southern Western Ghats, India, in 'Environmental Management of River Basin Ecosystems' (editors: Mu. Ramkumar K. Kumaraswamy R. Mohanraj), Springer Earth System Sciences. 2015. 355-396.
49. Vinod Gopal, V., Ravinesh, R., **Sabu Joseph** and Biju Kumar, A. (2014). Terrain exploration of a seventh order stream in Attingal Municipality- A case study of Vamanapuram River basin, southern Kerala, India. *Jour. of Aquatic Biology and Fisheries.* V. 2, pp. 872-878.
50. **Sabu Joseph**, Jaison Jacob Varghese and Jobin Thomas (2014). Habitat suitability of nilgiritahr (Nilgiritragus hylocrius) in the Eravikulam National Park of Southern Western Ghats, Kerala. *Eco. Env. & Cons.* 20 (4) : 2014; pp. (283-288).
51. Sheela A.M, Latha, J, **Sabu Joseph** (2014). Determining the Spatial Variation of Phosphorus in a Lake System using Remote Sensing Techniques (Manuscript No. LRE-12-069.R1). *Journal of Lakes & Reservoirs: Research and Management.* John Wiley & Sons. V. 19; pp.24-36.
52. **Sabu Joseph**, Anooja, A.V. and Jobin Thomas (2014). Hydrogeochemistry of the lower reaches of Karamana river and Poonthura estuary, Kerala, India. *Indian Journal of Marine Sciences (IJMS)* special issue on 'Mangrove and Near shore Biogeochemistry' (in press).
53. Jobin Thomas, **Sabu Joseph**, K. P. Thirivikramji, T. M. Manjusree K. S. Arunkumar (2014). Seasonal variation in major ion chemistry of a tropical mountain river, the southern Western Ghats, Kerala, India. *Environ Earth Sci* (2014) 71:2333–235. DOI [10.1007/s12665-013-2634-2](https://doi.org/10.1007/s12665-013-2634-2).
54. Jobin Thomas, **Sabu Joseph**, K.P. Thirivikramji, K.S. Arunkumar. Sensitivity of digital elevation models (2014): The scenario from two tropical mountain river basins of the Western Ghats, India: *Geoscience Frontiers.* V.5 (6), p.893-909. DOI: [10.1016-j.gsf.2013.12.008](https://doi.org/10.1016-j.gsf.2013.12.008).
55. Sheela A. M., Letha, J; **Sabu Joseph** and Jobin Thomas (2013). Identification of Hot Spot Area of Sediment Contamination in a Lake System Using Texture Characteristics. *Environ. Science & Engg.* Vol. 55, No. 2, p. 181-188.
56. Sheela A.M; Latha, J; **Sabu Joseph**; Jayaraj; P. Gomathi; J, Justus (2013). Lake bathymetry from IRS (P6-LISS III) satellite imagery using artificial neural network. *Lake and Reservoir: Research and Management*:18: p.145-153.



57. Sheela A.M, Latha, J, **Sabu Joseph**, K.K. Ramachandran, J. Justus (2013). Detection of extent of sea level rise in a coastal lake system using IRS satellite imagery. *Water Resource Management*. Springer. Volume 27 (7), P.2657-2670.
58. Sheela A. M., Letha, J., **Sabu Joseph**. (2013). Distribution pattern and factors affecting heavy metals in a lake system. *Journal of Environmental Science & Engineering*. National Environmental Engineering Research Institute, Nagpur. V. 55(1), 42-50.
59. Sheela, A.M., Letha, J., **Sabu Joseph**, M. Chacko, S.P. Sanal Kumar and J. Thomas (2012). Water quality assessment of tropical coastal lake system using multivariate cluster, principal component and factor analysis. *Lakes and Reservoirs: Research and Management*, 17: 143-159.
60. Sunny Joseph Kalayathankal, Suresh Singh, **Sabu Joseph**, Jobin Thomas (2012). A fuzzy network flood alarm model. *The Journal of Fuzzy Mathematics* Vol. 20, No. 3, 2012. 693-705.
61. Sheela, A.M., Letha, J., **Sabu Joseph** (2012). Assessment of Heavy Metal Contamination in Coastal Lake Sediments associated with Urbanization: Southern Kerala, India. *Lakes and Reservoirs: Research and Management*, 17: 97-112 (Article ID: LRE-11-031.RT).
62. Sheela A. M., Letha, J., **Sabu Joseph**, Baiju, R. S. (2012). "Spatio-temporal distribution of total organic carbon (TOC) in sediments of a tropical lake system and its impact on water quality". *Eco-Chronicle*. Society for Environment and Social Research, Kochi, 4(4), December, 211-218.
63. Sunny Joseph Kalayathankal, Suresh Singh, **Sabu Joseph**, Jobin Thomas, Sherimon P.C. (2012). Ordered ideal intuitionistic fuzzy model of flood alarm. *Iranian Journal of Fuzzy Systems* 9(3):47-60.
64. Benno Joseph, Thrivikramaji, K. P and **Sabu Joseph** (2012). Development of soil profiles in contrasting climates : A case study from southern India. *Pollution Research*, 2012, 31 (No.2), 247-250.
65. Jobin Thomas, **Sabu Joseph**, Thrivikramji, K.P. and George Abe. (2011). Morphometric Analysis of the drainage system and its hydrological implications in the rain shadow regions, Kerala, India. *Journal of Geographical Sciences*, V.21, No.6, pp. 1077-1088.
66. Jobin Thomas, **Sabu Joseph**, George Abe and Kannan, N (2011). Morphometrical analysis of two tropical mountain river basins of contrasting environmental settings, the Southern Western Ghats, India. *Env. Earth Sciences*. DOI. [10.1007/s12665-011-1457-2](https://doi.org/10.1007/s12665-011-1457-2).
67. Sheela, A. M., Letha, J., **Sabu Joseph**, Ramachandran, K. K., Manoj, Chacko. (2011). "Computation of physical characteristics of a lake system using IRS P6 (LISS III) imagery". *International Journal of Applied Earth Observation and Geoinformation*, Elsevier, 14(1), 221-232, [10.1016/j.jag.2011.09.013](https://doi.org/10.1016/j.jag.2011.09.013).
68. Sheela, A. M., Letha, J., **Sabu Joseph**, Justus, J and Sheeja, R. V. (2011). "Influence of lake morphology on water quality". *Environmental Monitoring and Assessment*, Springer, Netherlands, 182(1-4), 443-454, [10.1007/s10061-01-1888-y](https://doi.org/10.1007/s10061-01-1888-y).
69. S. Joseph Kalayathankal, G. Suresh Singh, P.B. Vinodkumar, **Sabu Joseph** and Jobin Thomas (2011). Ordered Intuitionistic Fuzzy Soft model of flood alarm. *Iranian Journal of Fuzzy Systems* Vol. 8, No. 1,, pp. 29-39.
70. Sheela, A.M., Letha, J. and **Sabu Joseph** (2011). Evaluation of lake water quality using multiple linear regression modelling. *Pollution research*, 30(1), 1-5 pp.
71. Sheeja, R.V., **Sabu Joseph** and Jaya, D.S. (2011). Assessment of physico-chemical characteristics of Neyyar river basin, Kerala. *Pollution research*, 30(2), 177-184 pp. <http://dx.doi.org/10.1080/17538947.2010.493959>
72. **Sabu Joseph** (2011). Environmental impact assessment (EIA): State-of-the art with emphasis on tourism impact. *Indian Journal of Tourism and Hospitality Management*, Vol. 1 (2), pp.27-54.

73. Joseph Kalayathankal S, Suresh Singh G, Vinodkumar P.B, **Joseph, S** and Thomas J (2011). Ordered Intuitionistic Fuzzy Soft Model of Flood alarms. Iranian Journal of Fuzzy Systems v.8, No.1, pp.29-39.
74. Preeja, K.R., **Sabu Joseph**, Jobin Thomas and Vijith, H (2011). Identification of groundwater potential zones of a tropical river basin (Kerala, India) using remote sensing and GIS techniques. Journal of the Indian Society of Remote Sensing, 39(1), 83-94 pp.
75. Sheeja R.V, **Sabu Joseph**, Jaya D.S. and Baiju R.S. (2010). Land use and Land cover changes over a century (1914-2007) in the Neyyar river basin, Kerala: A remote sensing and GIS approach. International Journal of Digital Earth, 4(3), 258-270 pp.
76. Jobin Thomas, **Sabu Joseph** and Thrivikramji, K.P. (2010). Morphometrical Aspects of a Small Tropical Mountain River System, the Southern Western Ghats, India. International Journal of Digital Earth, 3 (2), 135-156 pp.
77. Sheela, A.M., Letha, J and **Sabu Joseph** (2010). Environmental status of a tropical lake system, Environmental Monitoring and Assessment, 10.1007/s10661-010-1797-5.
78. Sheela A.M, Letha, J and **Sabu Joseph**, K.K. Ramachandran, Sanalkumar S.P. (2010). Trophic state index of a lake system using IRS (P6 LISS III) satellite imagery. Environmental Monitoring and Assessment, 10.1007/s10661-010-1658-2.
79. Arunkumar K.S, **Sabu Joseph** and Jobin Thomas (2010) Heavy metal concentration in the Coastal wetlands of Thiruvananthapuram District, Southern India. J. Environ. Science & Engg. Vol.52, No.2, pp.131-136.
80. Arunkumar K.S. and **Sabu Joseph** (2009) Evaluation of the groundwater quality in the coastal zones of Thiruvananthapuram district, India. Hydrology journal, v.32 (3-4), p. 279-288.
81. Kannan, N. and **Sabu Joseph** (2010). Quality of Groundwater in the Shallow Aquifers of a Paddy Dominated Agricultural River Basin, Kerala, India. International Journal of Civil and Environmental Engineering Vol. 2(3), P.160-178. <http://www.waset.org/journals/ijcee>.
82. Manjusree, T.M., **Sabu Joseph** and Jobin Thomas (2009) Hydrogeochemistry and Groundwater Quality in the Coastal Sandy Clay Aquifers of Alappuzha District, Kerala. Journal of Geological Society of India, V.74, N0.4, pp.459-468.
83. Sheeja R.V., **Sabu Joseph** and Jaya D.S. (2009). Morphometric Comparison (1914-2007) of Neyyar River using Remote Sensing and GIS Techniques: A case study from southwest coast of India. Echochronicle, 4, pp.396-404.
84. Jobin Thomas and **Sabu Joseph** (2009), Hydrochemical Portraits of Two Adjoining Upland River Basins with Contrasted Climatic Setup. Pollution Research, V. 28 (1), pp.69-76.
85. Kannan, N, **Sabu Joseph** and Jobin Thomas (2009). Textural characteristics, organic carbon and nitrogen content in the paddy soils of Palakkad district, Kerala. Pollution Research 28 (2) : pp.161-163.
86. Kannan, N, **Sabu Joseph**, Jobin Thomas, Anitha, J.K. (2009) Comparative Study of Drinking and Irrigation Water Quality of Reservoirs: A Case Study from Kerala, India. Pollution Research, v. 28 (3): pp.1-4.
87. Thrivikramji. K.P, **Sabu Joseph** and Anirudhan, S. (2008). Teris of Southern Tamil Nadu: Saga of Holocene Climate Change. Memoir Geological Society of India, No. 74, pp. 351 – 359.
88. Arunkumar, K.S. and **Sabu Joseph** (2007). Sedimentological and Geochemical studies of Kadinamkulam estuary, Southern Kerala. Jour. Eco. Environ. Conserv., v. 2., 329-337 pp.
89. Arunkumar, K.S. and **Sabu Joseph** (2006). Impacts of urbanisation on the coastal ecosystems of Poonthura, Thiruvananthapuram- A geochemical approach. Ecochronicle, v.1, No.2, pp.93-96.

90. Arunkumar, K.S. and **Sabu Joseph** (2006). Environmental Degradation of coastal ecosystems: a case study from Kadinamkulam estuary, southern Kerala. *Pollution Research*, v.25 (3), 535-542 pp.
91. **Sabu Joseph** and Thrivikramaji K.P. (2005). Rhizolithic calcretes in Teris (Red dune sands) of southern Tamil Nadu: Origin and Paleoclimatic implications. *India. Jour. Geol. Soc. of India*, V.65, pp.158-168.
92. Arunkumar, K.S. and **Sabu Joseph** (2004). Impact of Mudalapozhi harbour on the coastal environment of Anjengo, Trivandrum. *Proceedings of the third Indian Environmental Congress, 2004, Trivandrum*.p.75-80.
93. **Sabu Joseph**, Thrivikramaji K.P and D.S. Suresh Babu (2002).State of alteration of Ilmenite in Teris, southern Tamil Nadu. *Jour. Geol. Soc. of India*, V.60, pp.537-546.
94. **Sabu Joseph** and Thrivikramaji K.P. (2002). Kayals of Kerala coastal land and Implications to Quaternary Sea level Changes. *Geological Society of India, Memoir*, No.49, pp.51-64.
95. **Sabu Joseph**, Thrivikramaji K.P. and Anirudhan, S (1999). Mud content, clay minerals and oxidation states of iron- Teris of southern Tamil Nadu: Implication on the origin of Redness. *Journal of the Indian Association of sedimentologist*, v.18 (1), pp.83-94.
96. **Sabu Joseph**, Thrivikramaji K.P. and Anirudhan, S. (1998). Mineral assemblage and detrital modes- Teris of southern Tamil Nadu: Implication to the origin of quartz arenite *Journal of the Indian Association of sedimentologists*, v.17 (1), pp.87-101.
97. **Sabu Joseph**, Thrivikramaji K.P. and Anirudhan, S (1997). Textural parameters, discriminant analysis and depositional environments of Teri sands, southern Tamil Nadu, India. *Journal of Geological Society of India*. V.50, pp.323-329.

---

#### PUBLICATIONS IN SCIENCE MAGAZINES

1. **Sabu Joseph** and Ayona Jayadev (2023). COP 26 Climate Change Summit and India's Action Plan. Published in *Yojana magazine* (Govt. of India Publication), November 2023, V. 52, No.4, pp. 18-25.
  2. **Sabu Joseph** and Vishnusagar M.K (2022). Article entitled "Wetland ecosystem" published in *Yojana magazine* (Govt. of India Publication), October 2022. pp.42-47.
  3. Vishnu Sagar MK and **Sabu Joseph** (2021). Article entitled "Mangroves in Ashtamudi lake" published in *Aaranyam magazine* (Dept. of Forest and wildlife, Govt. of Kerala Publication), September 2021. pp.42-43.
  4. **Sabu Joseph** (2020). Article entitled "Waste Management" published in *Yojana magazine* (Govt. of India Publication), October 2020. pp.
-

## CONFERENCES

### International Conferences Participated (Outside India)

S. No.	Country	Visit/Fellowship/Position/Others	Period	Outcome
1	Italy	Presenting paper in international conference at Rome organised by WASET	28-30 April 2009	Interaction with international experts, exchange of ideas, possible future cooperation
2	U.S.A	Discussion for Project formulation at Nebraska State University	10-15 Sept., 2012	Interaction with experts for collaborative papers, knowledge sharing
3	Canada	Paper presentation in International Conference at Niagra Falls, Ontario organised by International Association of Hydrogeologists (IAH)	16-21 Sept., 2012	Interaction with experts, discussion joint papers, international collaboration
4	Germany	Invitation for group discussion for possible collaborative project on interdependencies of rivers and backwater system of Kerala	24/10/2012 to 15/11/2012 (23 days)	Indo-German collaborative project proposal developed, joint publications, long term interactions developed
5	Australia	Paper presentation in International Conference at Perth Australia organised by International Association of Hydrogeologists (IAH)	15-20 Sept., 2013	Interaction with experts for collaborative papers, knowledge sharing
6	Italy	Presenting paper in international conference at Rome organised by IAH	13-18 Sept., 2015	Interaction with experts for collaborative papers, knowledge sharing
7	Ireland	Presenting paper in international conference at Dublin organised by International Water Association (IWA)	23-27 October, 2016	Interaction with experts for collaborative papers, knowledge sharing
8	Israel	Indo-Israel joint Project meeting at University of Haifa, Israel	24/03/2018 to 05/4/2018 (13 days)	To discuss the progress of research, sharing data, next action plan formulation, joint publication etc.
9	Japan	Presenting paper in international conference ISE 2018 at Tokyo	19-24 Aug. 2018	Interaction with experts, one expert brought to Uty of Kerala under Eminent Scholar category for one week interaction.
10	Austria	Presenting paper in international conference at IAEA, Vienna	20—24 May 2019	Interaction with experts on isotope hydrology field
11	Israel	Indo-Israel joint Project meeting at University of Haifa, Israel	08 – 17 June 2019 (total 10 days)	To discuss the progress of research, sharing data, next action plan formulation, joint publication etc.

---

12	Germany	Presenting paper in international conference at Hannover, Germany organised by ESP and Indo-Israel Joint project meeting	21-25 October 2019	Interaction with experts, joint Indo-Israel project meeting
13	Ethiopia	Invited Lecture and Session chairing in international conference organised by Hawassa University in Ethiopia	20-21 June, 2023	Interaction with experts on water conservation

---

#### List of International/National Conferences and Seminars:

1. As Co-convener organised an international conference on “Environmental pollution and health: Governance for a sustainable future (ICEGSF)- 2023” at the Dept. of Env. Sciences, Univ. of Kerala during 21-23 October, 2023.
2. Delivered an invited lecture in a national conference on ‘Ecology and Environment’ at Bangalore, India during Nov. 22-24, 2023.
3. Delivered an invited lecture in the international conference on Ecosystem Conservation and Sustainable development (ECOCASD) Organised by Centre for Aquaculture Research and Education (CARE), Dept. of Aquatic Sciences, Fisheries and Aquaculture, Hawassa University during 20-22<sup>nd</sup> June 2023.
4. As Organising Secretary organised “one day conclave of International students” in the University of Kerala on 11 March, 2023.
5. Delivered an plenary talk in the national seminar on “Impacts of natural disasters on environment” organised by Justice Basheer Ahamed Sayeed College for Women (Autonomous, NAAC A++) Chennai, India, 8-9 March, 2023.
6. Delivered an invited lecture in the international conference on “Policy Response to disaster management: Resilience and recovery” organised by Dept. of Sociology, Univ. of Kerala during 01-03 Feb. 2023.
7. As Organising Secretary organised one day seminar on World Wetland Day 2023 in University of Kerala on 3 Feb., 2023.
8. Delivered an invited lecture in the international conference on “Geology: Emerging methods and applications (GEM-2023) organised by Dept. of Geology and Env. Sci, Christ College, Iringalakuda, Kerala, India Jan. 23-25, 2023.
9. As Organising Secretary organised one day Annual interdisciplinary academic meet in University of Kerala on 20 Dec., 2022.
10. Participated and presented a paper “Flood hazard zonation mapping of Kabani river basin, Kerala, India” in the Association of third world studies South Asia chapter (ATWS-SAC) international seminar organised by Dept. of History, Univ. of Kerala during 21-23 July, 2022.
11. Participated and delivered an invited lecture in an international conference on “Environmental status of estuarine and coastal ecosystems of India ECEI-2022” organised by Dept. of Env. Sciences, Univ. of Kerala during 26-28 Jan. 2022.
12. Participated and presented a paper in the National Seminar on “Perspectives on Kerala Economy, Society and Polity” held on 17th June, 2021 through Google Meet, organised by PPRI.
13. Participated and Chaired a session in an international conference (online mode) on “Conservation of Mangrove ecosystem: Synergies for Fishery Potential (CMESFP-2020) organised by Dept. of Env. Sciences, Univ. of Kerala during 19-21 Nov. 2020.
14. Participated an international conference (online) on “4<sup>th</sup> international disaster risk and vulnerability conference organised by School of Env. Sciences M.G. University during 9-10 October & 16-17 October 2020.

15. As Organising Secretary, organised a two days national webinar on “Coastal Erosion - Consequences and Mitigatory Measures : A Kerala Approach” in the Dept. of Env. Sciences, Univ. of Kerala during 17-18 Aug. 2020.
16. Participated and presented paper in an international conference on “ESP 10 international conference”, Leibniz University, **Hannover, Germany** during 21-25 October, 2019.
17. Participated and presented paper in an international conference on “**International Symposium on Isotope Hydrology: Advancing the understanding of water cycle processes**” held at IAEA Headquarters, Vienna (Austria) during 20-24 May 2019.
18. Participated and presented paper in an international conference on “**International Symposium of Ecohydraulics (ISE 2018) at Nihon University, Tokyo, Japan during August 19-24, 2018** jointly convened by the International Association for Hydro-Environment Engineering and Research (IAHR), and the International Society for River Science (ISRS).
19. As Co-convener, in association with Dept. of Malayalam and Mass communication, St. Xaviers College, Thumba organized a three days international seminar on “Environment : Theories & Narratives – science, society, culture and society at St. Xaviers College, Thumba, Trivandrum during 1-3 August 2018.
20. As Organising Secretary, organised a three days international conference on “Water Resources: Innovations in quality and quantity sustainable development challenges and management (ICWR 2018)” in the University of Kerala during 15-17 March, 2018.
21. Michael Slinger, Andrea Germandi, Sheela Mosses and **Sabu Joseph** (2017): Geotagged photos from social media to value the recreational benefits of Kerala’s wetlands in India. INSEE-KILA International conference on “Sustainability, Institutions, Incentives, Voices, Policies and Commitments” held at KILA Trissur, Kerala during 08-10 Nov. 2017. P.97.
22. **Sabu Joseph**, Rahul, R. R., & Sukanya, S. (2017). Land Use or land cover (LU/LC) Changes of Killiar River Basin, Thiruvananthapuram, Kerala, India: A Geospatial Approach. *3<sup>rd</sup> International Conference on Materials Mechanics and Management* by CET from 13-15 July, 2017.
23. A research paper entitled "Environmental Health Appraisal of a Small Tropical Mountainous River Basin in the southern Western Ghats, India" co-authored by Prince George was presented under oral category in an international conference “IWA Regional Conference on Diffuse Pollution and Catchment Management (**DCPM 2016**)” at **Dublin City University, Dublin, Ireland** from 23<sup>rd</sup> to 27<sup>th</sup> October 2016.
24. Participated and presented a research paper in the international conference on 42<sup>nd</sup> International Association of Hydrogeologists (IAH 2015) held in **Rome** during 13-18 Sept. 2015.
25. **Sukanya, S., & Sabu Joseph** (2015). Hydrochemistry of Karamana River, Kerala, with emphasis on Nutrient Status: A Multivariate Statistical Approach. National *Multi-Disciplinary Annual Research Conference (MARC)* organized by the Internal Quality Assurance Cell & various Schools of University of Kerala from 15-18 December, 2015.
26. Sukanya, S., & **Sabu Joseph** (2014). Biogeochemistry of Karamana River with emphasis on its Coastal Stretch in Thiruvananthapuram, South West Coast of India. **Tropical Ecology Congress 2014**, Organized by School of Environmental Sciences, Jawaharlal Nehru University (JNU) –New Delhi in Collaboration with International Society for Tropical Ecology (ISTE), 10-12 December, 2014.
27. Participated (as co-organiser) in an international conference on “ecosystem conservation, climate change and sustainable development organised by Dept. of Aquatic Biology & Fisheries and Dept. of Env. Sciences, Univ. of Kerala during 3-5 Oct., 2013.
28. Participated and presented a paper in an international conference organised by International Association of Hydrogeologist –IAH 2013 held in **Perth, Australia** during 15-20 Sep., 2013.
29. Participated and presented a paper in an international conference organised by International Association of Hydrogeologist –IAH 2012 held at Niagra Falls, **Ontario, Canada** during 16-21 Sep., 2012.
30. Organised an international conference (as Convenor) on “Climate Change, Forest Resource and Environment (ICCFRE-2011) organized by Dept. of Env. Sciences, Univ. of Kerala 9-11 Dec.2011.
31. Participated the 97th Indian Science Congress held at University of Kerala, Trivandrum, Kerala.



32. Refresher course in Environmental Science organized by UGC Academic staff college, Jawaharlal Nehru University, New Delhi from 5/5/2010 to 30/5/2010.
  33. Participated and presented a paper on "Studies on the beach erosion/accretion and textural characteristics of sediments of Androth Island, U.T. Lakshadweep" in an international conference on "Climate Change and Island Vulnerability" by NISCAIR, New Delhi held at Kadamath Island, U.T. Lakshadweep, 28-31 Oct. 2010.
  34. Participated one day seminar on "Ozone layer protection through biodiversity" held in the Dept. of Env. Sciences, Univ. of Kerala on 17.9.2010.
  35. Participated one day seminar on "Wetland resource management for sustainable development" held in the Dept. of Env. Sciences, Univ. of Kerala on 23/3/2010.
  36. Participated one day seminar on "Water resource management" held in the Dept. of Env. Sciences, Univ. of Kerala on 19/02/2010.
  37. 97<sup>th</sup> Indian Science Congress held at University of Kerala, Kariavattom in Jan., 2010.
  38. Participated as Resource Person in a national seminar on "Mathematical models and methods in applied sciences" held in K.E. College, Mannanam, Kottayam, India 23-25<sup>th</sup> Nov. 2009.
  39. Participated as (Organising Committee) in a national seminar on "Emerging trends in environment and development" in the Dept. of Env. Sciences, Univ. of Kerala, 8-9 Oct. 2009.
  40. Participated and presented a paper in an international conference On WCSET 2009: World Congress on Science, Technology and Environment" organised by WASET in **Rome, Italy** from April 27-30, 2009.
  41. Participated an international seminar on "Democratic and Secular Education" organised by Univ. of Kerala and Government of Kerala in Trivandrum from 4-6 Dec. 2008.
  42. Participated and presented a paper entitled "Paleoclimatic implications of red dune sands of southern Tamil Nadu, India" in an International Conference held at Anna University, Chennai from January 10-14, 2008.
  43. Participated a national conference on "Genetically modified crops" organised by Sastra Vedi at Rajeev Gandhi Centre for Biotechnology, Trivandrum on 14/6/2008.
  44. Participated in the Kerala Environmental Congress in Trivandrum organised by CED, Trivandrum, 2007.
  45. One day regional seminar on "Sethusamudram project and its impact on Kerala Coast" organised by CISSA and Dept. of Botany, Univ. of Kerala on 26<sup>th</sup> April, 2007.
  46. Participated an international conference on "b-GIS @ India" organised by Dept. of Geology, Univ. of Kerala and GIS Engineers Society at Techno Park, Trivandrum from Dec.7-8, 2006.
  47. Participated in a national seminar on "Disaster Management "by Swadeshi science movement from Nov.19-20, 2005 at Trivandrum.
  48. Participated (as organising member) in a national seminar on "Waste Management Techniques" by Dept. of Environmental Sciences, Univ. of Kerala from October 14-15, 2005.
  49. Participated in a National seminar on "Inland Water Resources" conducted by Dept. of Environmental Sciences, Univ. of Kerala and Limnological Association of Kerala, Feb.3-5, 2004.
  50. Organised (as Co-convenor) a national seminar on "Coastal zone dynamics and environmental challenges" held in the Dept. of Geology, Univ. of Kerala, India. Jan.28-29, 2004.
  51. Participated in a National seminar on "Algae and environment" held in the Dept. of Environmental Sciences, Univ. of Kerala from Feb. 13-15, 2003.
  52. Participated and presented a paper in the 17th convention of the Indian association of sedimentologists held in CUSAT, Cochin, India October, 2000.
  53. Participated and presented a paper in a national symposium on "Late Quaternary Geology and sea level changes" held in CUSAT, Cochin, India November, 1998.
- 

### Publications in seminar proceedings

1. Lakshmi, R, **Sabu Joseph**, Selvakumar, S (2023). Appraisal of groundwater quality for drinking and irrigation purposes in Kabani river basin, Kerala, India. In the proceedings of the international conference on "Environmental Pollution and Health: Governance for a Sustainable Future (ICEGSF) – 2023. Pp. 62-66.

2. Akhil, S and **Sabu Joseph** (2023). Occurrence of radon in the groundwater from a tropical mountainous river basin, SW India. In the proceedings of the international conference on “Environmental Pollution and Health: Governance for a Sustainable Future (ICEGSF) – 2023. Pp. 78-79.
3. Amjad Abdullah Omar Alfaki, **Sabu Joseph**, Akhil R.V (2023). Assessment of Radon and groundwater of Ithikkara river basin, Kerala, India. In the proceedings of the international conference on “Environmental Pollution and Health: Governance for a Sustainable Future (ICEGSF) – 2023. Pp. 96-99.
4. Hope Haguwa, **Sabu Joseph**, Amjad Abdallah Omar Alfaki and Akil R.V (2023). Radon distribution in the groundwater of Ithikkara river basin, Kerala, India. In the proceedings of the international conference on “Environmental Pollution and Health: Governance for a Sustainable Future (ICEGSF) – 2023. Pp. 116-118.
5. Selvakumar, S, **Sabu Joseph** and Chandrasekhar N (2023). Coastal aquifer vulnerability for seawater intrusion in the Southern coast, Tamil Nadu, India. In the proceedings of the international conference on “Environmental Pollution and Health: Governance for a Sustainable Future (ICEGSF) – 2023. Pp. 123-126.
6. Sabu Joseph (2023). Climate change : concept, impacts in India and mitigations. National seminar on “The impact of Natural disasters on environment” Justice Basheer Ahamed Sayeed College for Women (Autonomous A++) Chennai, India, 8-9 March, 2023.
7. Sabu Joseph (2022). Climate change : impacts in India, mitigations and adaptations. National seminar on “The impact of Natural disasters on environment” College of Engineering, Trivandrum India, 19-20 Dec, 2022.
8. Nivedi S Mohan, Vishnusagar, M.K and **Sabu Joseph\*** (2021). An Appraisal of Nutrient Status and Productivity with Emphasis on Phytoplankton Assemblage in Karamana River, Kerala, India. International Conference on Energy and Environment (ICEE-2021), Jyothi Engineering College, Trissur, India, 9-10 April, 2021.
9. Sukanya S, **Sabu Joseph\***, Noble Jacob ((2021). Characterization of groundwater chemistry in a tropical mountainous basin, Southern Western Ghats, India – Integrated chemometric and geochemical modeling approaches. International Conference on Energy and Environment (ICEE-2021), Jyothi Engineering College, Trissur, India, 9-10 April, 2021.
10. Anurani G R and **Sabu Joseph\*** (2021). Evaluation of Spatio-temporal variation of Radon ( $^{222}\text{Rn}$ ) activity in the groundwater vis-à-vis geological setting in Vamanapuram River Basin, Kerala, India. International Conference on Energy and Environment (ICEE-2021), Jyothi Engineering College, Trissur, India, 9-10 April, 2021.
11. Akhil, S and **Sabu Joseph** (2021). A Study on Radon concentration vis-a’-vis groundwater quality in the selected part of Midland and Coastal regions of Neyyar River Basin, Kerala, India. International Conference on Energy and Environment (ICEE-2021), Jyothi Engineering College, Trissur, India, 9-10 April, 2021.
12. Chithra. S and **Sabu Joseph** (2021). Salt water Intrusion in Kalladariver and its impact on ground water quality of Munroe Island, Kerala, South West Coast of India. International Conference on Energy and Environment (ICEE-2021), Jyothi Engineering College, Trissur, India, 9-10 April, 2021.
13. Sijimol M R, Mansa M L and **\*Sabu Joseph** (2021). Analysis of Potential of Napier grass, Vetiver and Equisetum plants for the Treatment of Domestic Greywater using Box type Constructed Wetlands. International Conference on Energy and Environment (ICEE-2021), Jyothi Engineering College, Trissur, India, 9-10 April, 2021.
14. Sukanya, S. and **Sabu Joseph** (2019). Hydrochemical characterisation of Karamana river with emphasis on its coastal stretch in Thiruvananthapuram, South west coast of India. National Seminar on Environmental Status of Estuarine and Coastal Ecosystems in India (ECEI-2019) Proceedings. Eds. Junaid Hassan, S., Salom Gnana Thanga, V. ISBN: 9789353469269.

15. Sukanya, S., **Sabu Joseph** and Noble Jacob (2019). Radon distribution and appraisal of its radiation dose in the groundwater of a small tropical river basin, Kerala, India. 5<sup>th</sup> International Symposium on the System of Radiological Protection (17<sup>th</sup>-21<sup>st</sup> November 2019), Adelaide (Abstract will be published in Annals of the ICRP journal's (Scopus indexed/UGC CARE list journal) special proceedings issue 2019)
16. Vishnu Sagar M.K, Arunkumar P.S and **Sabu joseph** (2019). Nutrient Dynamics and pollution status of Sasthamkotta Lake, A Ramsar site in Kerala, South West coast of India. ICSSR Sponsored National seminar on Technology for environmental sustainability, socio-Economic Responsibility and Associated Entrepreneurial Opportunities in 21<sup>st</sup> Century (March 8-9 2019). Proceedings ISBN: 9789385329449.
17. **Joseph Sabu**, Jacob Noble and Sukanya S (2019). Factors controlling the Radon distribution in Ground water of a small tropical Mountainous River basin, South west India. International Symposium on Isotope Hydrology: Advancing the Understanding of water cycle process, IAEA, **Vienna, Austria**.
18. Vishnu Sagar M.K, **Sabu Joseph**, Michael Sinclair, Andrea Ghermandi, Arunkumar PS and A.M Sheela (2019). Ecosystem service valuation and water quality monitoring for sustainable management of a Ramsar wetland in Kerala, India. ESP 10 international conference, Leibniz university, **Hannover Germany (25<sup>th</sup> October)**.
19. Vishnu sagar, **Sabu Joseph**, Arunkumar, K.S, Andrea Germandi, Sheela M (2018). **“Coastal hypoxia and rise in salinity: threat to fishery resources in a Ramsar site in south west coast of India”** International conference on **“International Symposium of Ecohydraulics (ISE 2018) at Nihon University, Tokyo, Japan during August 19-24, 2018.**
20. Alfiya Salam R and **Sabu Joseph (2018)**. Assessment of physico-chemical and bacteriological characteristics of groundwater near the clay mining sites of Azhoor gramapanchayat, Trivandrum. Abstract proceedings of international conference on ICWR 2018 organised by Dept. of Env. Sciences and Dept. of Geology, University of Kerala.
21. Reji P G and **Sabu Joseph** (2018). Groundwater level fluctuation of dug well samples from Perayam gramapanchayat, Kollam district, Kerala. Abstract proceedings of international conference on ICWR 2018 organised by Dept. of Env. Sciences and Dept. of Geology, University of Kerala.
22. Anurani G R, Sukanya S, **Sabu Joseph** and Noble Jacob (2018). Hydrochemistry and radon based groundwater inflow investigation in Killiyar river, Southern Kerala. Abstract proceedings of international conference on ICWR 2018 organised by Dept. of Env. Sciences and Dept. of Geology, University of Kerala.
23. Sukanya S, Akhil R V, **Sabu Joseph** and Noble Jacob (2018). Spatial distribution of groundwater radon and hydrochemistry of Karamana river basin, Kerala, India. Abstract proceedings of international conference on ICWR 2018 organised by Dept. of Env. Sciences and Dept. of Geology, University of Kerala.
24. Anzamol B S and **Sabu Joseph** (2018). Application of phytoplankton indices as pollution indicators in Poovar estuary, Southern Kerala. Abstract proceedings of international conference on ICWR 2018 organised by Dept. of Env. Sciences and Dept. of Geology, University of Kerala.
25. Vishnu Sagar M K, Arunkumar P S, **Sabu Joseph**, Sheela A M and Andrea Ghermandi (2018). Nutrient dynamics and pollution status of Ashtamudi lake, a Ramsar site in Kerala, Southwest coast of India. Abstract proceedings of international conference on ICWR 2018 organised by Dept. of Env. Sciences and Dept. of Geology, University of Kerala.
26. **Sabu Joseph** (2014). Paleo-perspectives of Climate Change. Proceedings of the National Seminar on Lakes, Rivers, and Wetland Ecosystem – A climate change perspectives 2014. pp.1-8. (Editors: K.S. Arunkumar and V.A. Ayisha), MES Ponnani College, Ponnani, Kerala.
27. K.S. Arnkumar, **Sabu Joseph** and Jobin Thomas (2014). Landuse/landcover changes along the coastal zone of Thiruvananthapuram, SW coast of India. Proceedings of the National Seminar on Lakes, Rivers, and

- Wetland Ecosystem – A climate change perspectives 2014. pp.1-8. (Editors: K.S. Arunkumar and V.A. Ayisha), MES Ponnani College, Ponnani, Kerala.
28. Vinod Gopal, V., Ravinesh, R., **Sabu Joseph**, Biju Kumar, A (2014). Panchayat level degradation assessment: a case study of Vamanapuram River Basin, Kerala, India. 26<sup>th</sup> Kerala Science Congress 2014 Wayanad, Kerala (poster).
  29. A paper entitled “Assessment of groundwater in the coastal aquifers of Alappuzha district, Kerala, India: A Multivariate and GIS Approach” by Manjusree T.M. & **Sabu Joseph** in the proceedings of the international conference organised by International Association of Hydrogeologist (IAH) 2013 held in Perth, Australia during 15-20 Sep., 2013.
  30. Vinod Gopal, V, Ravinesh, R, **Sabu Joseph**, Biju Kumar (2013). Sand auditing of a tropical river system- a case study of Vamanapuram River, Kerala, India. National seminar in Lakshadweep Islands.
  31. As co-author of a paper entitled “Terrain exploration of a 7<sup>th</sup> order stream: a case study of Vamanapuram river, Kerala” presented by Mr. Vinod Gopal in an international conference on Ecosystem conservation, climate change and sustainable development” in Trivandrum during 3-5 October, 2013.
  32. As co-author presented a paper by Ms. Majusree in the regional seminar on “Water Quality” organized by the State Groundwater Dept. from 4-5 Feb., 2013.
  33. Remya, R, Smitha, S.V. and **Sabu Joseph** (2011). Hydrogeochemical portrait of Ithikkara River Basin, Kerala. International Conference on Climate Change, Forest Resource and Environment (ICCFRE-2011) organized by Dept. of Env. Sciences, Univ. of Kerala 9-11 Dec.2011.
  34. Anzamol, B.S. and **Sabu Joseph** (2011). Study on the geochemical attributes of Akkulam-veli estuary, southern Kerala. International Conference on Climate Change, Forest Resource and Environment (ICCFRE-2011) organized by Dept. of Env. Sciences, Univ. of Kerala 9-11 Dec.2011.
  35. Regi, P.G. and **Sabu Joseph** (2011). Analysis of Physico-chemical characteristics of shallow ground water from Perayam Panchayath, kollam district, Kerala. International Conference on Climate Change, Forest Resource and Environment (ICCFRE-2011) organized by Dept. of Env. Sciences, Univ. of Kerala 9-11 Dec.2011.
  36. Sheeja R.V, **Sabu Joseph**, Sheela A.M, Jaya D.S. (2011). Application of Water quality Index to Assess water quality- A case of Neyyar river basin, south west of India. Paper presented in the 98<sup>th</sup> Indian Science Congress at Chennai, India, 2-7 January.
  37. **Sabu Joseph**, Vinod, M.V and T.N. Prakash. (2010). Studies on the beach erosion/accretion and textural characteristics of sediments of Androth Island, U.T. Lakshadweep. Paper presented to International conference on Climate Change and Island Vulnerability at Kadamath Island, U.T. Lakshadweep, 28-31 Oct. 2010.
  38. Sheeja R.V, **Sabu Joseph** and Jaya D.S. (2010). Spatio-Temporal variation of selected water quality parameters of Neyyar, South west of India, using Raster interpolation- A GIS approach. Paper presented in the first Women Science Congress at Ernakulam, 10th - 12th August
  39. Sheela A.M, J. Letha, **Sabu Joseph** and K.K. Ramachandran (2010). Prediction of Water Quality of a Lake System by relating Secchi Disk Depth and IRS P6 Radiance Data, 11<sup>th</sup> National and 1<sup>st</sup> International Conference on Technological Trends, College of Engineering, Trivandrum (25<sup>th</sup> to 27<sup>th</sup> November, 2010)
  40. Sheela A.M., J. Letha, **Sabu Joseph** and B. Thulasidharan Nair (2010). Estimation of discharge of a lake basin and its effect on water quality, 1<sup>st</sup> Kerala Woman's Science Congress, Focal Theme: Woman and Biodiversity, 10-12 August 2010, organized by Shakti and St. Theresa's College Ernakulam, Abstracts –p.152.
  41. Kannan, N. and **Sabu Joseph** (2010). Hydrochemistry and Quality Assessment of Groundwater in the Shallow and Deep Aquifers of the Agriculture Dominated Bharathapuzha River Basin, Kerala, India. In: Proceedings

of the International Conference on “Climate Change Perspectives and Projections- A System Approach” held during 9-11 December, Osmania University, Hyderabad, India 179p.

42. Kannan, N. and **Sabu Joseph** (2010). Study on Agrochemical and Industrial Pollution in the Surface Water of Chittur and Palakkad Taluks of Bharathapuzha River Basin, Kerala. In: Proceedings of Young Environmental Researchers Conference organised in connection with World Water Day, 22-23 March, CWRDM, Calicut, Kerala, India. 16p.
43. Kannan, N. and **Sabu Joseph** (2009). Quality of Groundwater in the Shallow Aquifers of a Paddy Dominated Agricultural River Basin, Kerala, India. In: Proceedings of World Academy of Sciences, Engineering and Technology. Vol. 40. ISSN: 2070-3740, pp- 534-552. Paper presented in WCSET 2009: World Congress on Science, Engineering and Technology, **Rome, Italy**, April 28-30.
44. Arunkumar, K.S., **Sabu Joseph** and Kamalakshan Kokkal (2009). Vulnerable areas of sea level rise and their mitigatory measures: A case study from the coast of Thiruvananthapuram district, Kerala. Proceedings of the National seminar on Emerging Trends in Environment and Development (ed. Dr. V.R. Prakasam), organized by Dept. of Environmental Sciences, Univ. of Kerala.
45. Sheela, A.M; J. Latha and **Sabu Joseph** (2009). Assessment of Environmental status of the Akkulam-Veli lake, southern Kerala with special emphasis on organized recreational activities. Proceedings of the National seminar on Emerging Trends in Environment and Development (ed. Dr. V.R. Prakasam), organized by Dept. of Environmental Sciences, Univ. of Kerala.
46. Kannan, N and **Sabu Joseph** (2009). Anthropogenic and climatic influence on the quality of groundwater in Chittur and Palakkad taluks of Bharathapuzha basin, Kerala. Proceedings of the National seminar on Emerging Trends in Environment and Development (ed. Dr. V.R. Prakasam), organized by Dept. of Environmental Sciences, Univ. of Kerala.
47. Sheeja R.V, **Sabu Joseph** and Jaya D.S (2008). Morphometric analysis of Neyyar river, Kerala using Remote Sensing and GIS – A comparison between 1914 and 2007. In: Proceedings of First International Conference of Kanyakumari Academy of Arts and Sciences (KAAS).
48. Arunkumar, K.S. and **Sabu Joseph** (2008). Vulnerability of Kerala coastline to sea level rise. In the proceedings of OISCA Global Meet 2008 (International Seminar) on the theme “Human Activities and Climate Change” 26-27 September 2008, at Thiruvananthapuram.
49. Thrivikramji K.P., **Sabu Joseph** and Narayana, A.C (2007). Coastal wetlands of Kerala, India: origin and evolution. Proceedings of the Kerala Science congress, Trivandrum.

### **List of International/National Workshops**

1. As Co-ordinator organised 15 days Refresher Course in Environmental Sciences in Academic Staff College, Univ. of Kerala during 08-22 Dec. 2021.
2. Participated CSE’s Green Educators Network: 6th National Knowledge Conclave- Climate Change at Nimli, Rajasthan, India during 23-25 September 2021.
3. As Co-ordinator organised 15 days Refresher Course in Environmental Sciences in Academic Staff College, Univ. of Kerala during 10-23 Feb. 2021.
4. As organising Secretary, organised three days online national workshop on “Solid Waste Management” in the Dept. of Env. Sciences during 1-3 Dec. 2020.
5. As organising Secretary, organised two days online workshop for framing syllabus for a new PG course “Climate Change and Disaster management” during 30/09/2020 and 01/10/2020.
6. As Co-ordinator organised 15 days Refresher Course in Environmental Sciences in Academic Staff College, Univ. of Kerala during 11-24 Jan. 2020.

7. As Organising Secretary organised two days international workshop “Ecosystem service valuation of Ashtamudi and Sasthamkotta lake” in connection with Indo-Israel project during 17-18 Jan. 2020.
  8. As Organising Secretary organised Workshop on “UG Syllabus Revision in Environmental Sciences Course in the Collages Affiliated to University of Kerala” during 25-26 March 2019.
  9. As Convener organised a national seminar on “Environmental Status of estuarine and coastal ecosystems in India (ECEI 2019) 14-16 March 2019.
  10. As Organising Secretary organised an Indo-Israel (UGC-ISF) two days international workshop on “Ecosystem service Assessment for the Sustainable Management of Ashtamudi and Sasthamkotta wetlands of Kerala” during 25-26 Feb. 2019.
  11. Participated CSE’s Green Educators Network: 4<sup>th</sup> National Knowledge Conclave- Climate Change in Rajasthan 4-7 March 2019.
  12. As Convenor, organised a two days National workshop on “Biogeochemistry of Coastal lakes” in the Dept. of Env. Sciences during 11<sup>th</sup> and 12<sup>th</sup> January 2018.
  13. As Organising Secretary, organised a two days National workshop on “Environmental Modeling ” in the Dept. of Env. Sciences during 30-31st January 2018.
  14. Participated a national workshop on “Submarine Groundwater discharge (SGD) organised by NCESS, Trivandrum on 31<sup>st</sup> July and 1<sup>st</sup> Aug. 2017.
  15. As Organising Secretary organised an Indo-Israel (UGC-ISF) two days international workshop on “Ecosystem service Assessment for the Sustainable Management of Ashtamudi and Sasthamkotta wetlands of Kerala” during 31<sup>st</sup> July and 1<sup>st</sup> Aug. 2017.
  16. As Organising Secretary, organised the Science and Engineering Research Board (SERB), New Delhi’s 4th group monitoring workshop and 5th meeting of Expert Committee for Young Scientists-Earth & Atmospheric Sciences in the University of Kerala for two days on 21st and 22nd of April, 2017. A 12 member expert committee from SERB, New Delhi and 50 Principal Investigators from various parts of India participated the program.
  17. As co-ordinator conducted a regional workshop on Solid waste management in the Dept. of Env. Sciences during 21-22 July 2016.
  18. As Organising Secretary, organized a national workshop on “Biogeochemistry” during March 27-28, 2014 in the Dept. of Environmental Sciences, Univ. of Kerala.
  19. As Organising Secretary organised a three days national workshop on “Environmental Impact Assessment” in the Dept. of Env. Sciences, Univ. of Kerala from 28-31 March, 2012.
  20. Participated in a two days workshop on “Linking of river and backwaters” organised by CESS-ZTM held at Trivandrum, India during 21-22 Feb.2011.
  21. National workshop on “Climate Change” organized by EMAC and State planning Board at Trivandrum from 14-16 Dec., 2010.
  22. National workshop on "Environmental Impact Assessment" from 5-6, March, 2010 organised by State Pollution Control Board and EMAC, Govt. of Kerala, at Trivandrum.
  23. Workshop on “Ground water Development and Management in Kerala and Lakshadweep” organized by Central Ground Water Board, held at Trivandrum on 18<sup>th</sup> and 19<sup>th</sup> March 2009.
  24. Participated and presented a paper in the national workshop on "Water Quality" held at Jawaharlal Nehru University, New Delhi, February 2002.
  25. Participated and presented a paper in the international workshop on "Ecohydrology" held at Jawaharlal Nehru University, New Delhi, October 2001.
- 

## **SOCIAL MEDIA**

Articles on environmental science published in the Malayalam newspaper Deepika and The Hindu in English; discussions on environmental issues broadcasted across television networks such as Doordarshan, Mangalam, 24 Channel, and Manorama Channel; and Radio broadcasts addressing ecological concerns and sustainability.

---



## **COMMUNITY SERVICES**

1. Served as Environmental expert in renovating Apollo Colony in Andoorkonam Panchayath, Trivandrum, Kerala, India in 2022.
2. Served as subject expert, and coordinated and developed a comprehensive document titled 'Landslide Disaster Mitigation Strategies for Kerala' in 2022 aligned with Sustainable Development Goal (SDG) 13. This was disseminated to various governmental bodies and the general populace in Kerala to facilitate strategic implementation.
3. Implemented one-year-long (2020-2021) innovative community development program in Arattupuzha village, Alleppey district, Kerala, focusing on sustainable development goals 6 and 13, in response to the devastating tsunami impact. The initiative included planting of mangroves along the coast, establishment of rainwater harvesting structures, waste management systems, and environmental empowerment programs conducted in selected schools within the village.
4. Implemented a two-year-long (2018-2020) community sustainable development program in the ecologically sensitive area (ESA) of Amboory Village, Trivandrum district, Kerala. This aimed to address sustainable development goals 6 and 13 while empowering rural populations in environmental and disaster management. Activities encompassed construction of model structures for rainwater harvesting and groundwater recharge, waste-to-energy initiatives, environmental auditing, and extensive environment awareness programs tailored for school children and the broader community.

---

## **CONTRIBUTION AS EXPERT COMMITTEE MEMBER**

1. Conducted environmental appraisal and prepared a comprehensive report on the Vazhathara Granites project in Koottickal village, Kanjirappally taluk, Kottayam district, Kerala, subsequently submitted to the Kerala State Biodiversity Board (KSBB).
2. Provided specialized knowledge and documentation regarding carbon neutrality in panchayats to the KSBB in 2021.
3. Produced a technical report outlining strategies for the management of Local Biodiversity Heritage Sites and Heritage Trees within Trivandrum District, Kerala, India in 2021.
4. Formulated a scientific report addressing the illegal quarrying activities in the 12th ward of Manickal Panchayath, Thiruvananthapuram district, India.
5. Offered expertise to Amboory and Kallikkad panchayats in Trivandrum district, Kerala, pertaining to ESA and Non-ESA mapping, as well as the preparation of scientific reports aligned with the High-Level Working Group's assessment on the Western Ghats from 2011 to 2022. Also provided expertise on forest buffer zone issues during 2022-2023.

---

## **OTHER SERVICES TO STUDENTS AND HOME INSTITUTIONS**

1. As the Honorary Director of the University Finishing School, I orchestrated numerous soft skill training programs tailored for university students.
2. Functioning as the Coordinator, I facilitated a 60-hour foreign language training initiative focused on French language acquisition.

- 
3. Introduced elective course "ENS 51A- Disaster Management" (2 credits) for first-semester students since 2010.
  4. Spearheaded several seminars and workshops within the Department to commemorate environmentally significant events.
  5. Pioneered the Bhoomika Newsletter within the Department of Environmental Sciences and served as its Coordinator from 2017 to 2020.
  6. Established a model Butterfly Park within the premises of the Department of Environmental Sciences in 2018.
  7. Fulfilled the role of Faculty-in-Charge (FIC) of the Bhoomitrasena Club within the Department.
  8. Served as a Resource Person to Academic Staff Colleges affiliated with various universities; talks to colleges, schools and public groups.
-