

CURRICULUM VITAE

Dr. C. THIVYA

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ACADEMIC QUALIFICATIONS

Name Of Course	Institution	Year of passing	Percentage
S.S.LC (10 th)	Seventh day Adventist matric higher secondary school, Panruti, Tamilnadu	2003	80.02%
Intermediate (12 th)	Government Girls higher secondary school, Chidambaram, Tamilnadu	2005	60.08%
M. Sc (Applied Geology)	Department of Earth Sciences, Annamalai University, Tamilnadu	2005 – 2010 (5 years Integrated course)	8.52 CGPA grade point, First class
Ph. D (Study on Uranium in ground water of Madurai district, Tamilnadu)	Department of Earth Sciences, Annamalai University, Tamilnadu	2010 - 2014	Awarded
Post-doctoral fellow funded by University Grant Commission	Department of Geology University of Madras Tamilnadu	2015 – 2018 (06.11.2015- 05.10.2018)	--

TEACHING EXPERIENCE

1. Working as Assistant Professor in PG & Research Department of Geology, National College (Autonomous), Tiruchirappalli, Tamilnadu from 09.03.2024 to till now.
2. During the period of Post-doctoral fellow from 06.11.2015 – 05.10.2018, classes were taken for M.Sc. students in Department of Geology, University of Madras, Guindy Campus, Chennai, Tamilnadu.
3. Worked as Guest Lecturer in Department of Geology, University of Madras, Chennai, Tamilnadu from 01.10.2015 to 05.11.2015.

4. Worked as Guest lecturer in Department of Geology, Bharathidasan University, Tiruchirapalli, Tamilnadu from 22.12.2014 to 30.04.2015.

ACADEMIC ACHEIVEMENTS

1. **Awarded Ramasamy Padayaichiar Endowment** instituted by the Government of Tamilnadu for the year 2006-2007 for securing first mark.
2. **Awarded as Meritorious Student** for the year 2009-2010 held amongst the M.Sc students of Geology institutions in Tamilnadu conducted by Geologists Association of Tamilnadu held at Madras University.
3. **Awarded Junior Research Fellowship** by University Grant Commission (UGC) for the Project entitled “A Study on the Uranium speciation and migration in the hard rock aquifers of Madurai district Tamilnadu by Hydrogeochemical modeling” from 01.02.2011 to 31.01.2014.
4. **Best Paper Award for contributing paper** in DAE-BRNS Fifth symposium on nuclear analytical chemistry (NAC-V) held from 20.01.2014 to 24.01.2014 at Bhabha Atomic research centre, Mumbai.
5. **Secured First Place for Research paper** in the science (Geology) on the occasion of National Science Day celebration held on 28th February 2014 in Annamalai University.
6. **King Abdul Aziz City for Science and Technology (KACST) for Research Institute** has endorsed our paper entitled “A study on the defluoridation in water by using natural soil” for KACST awards for the best paper published in Applied Water Science Journal in collaboration with Springer for the year 2013. The article chosen reflect not only excellent science, but also the potential impact of the discoveries. The winning authors received the KACST Certificate, Medal and \$5,000.
7. **Consolation prize for Paper presentation** in first DAE-BRNS symposium on current trends in analytical chemistry (CTAC-2015) held from 26.05.2015 – 29.05.2015 at Bhabha Atomic research centre, Mumbai.
8. **Consolation prize for Paper presentation** in National Geoscholars meet at Wadia institute of Himalayan Geology, Dehradun, Uttarkhand during 01.06.2016 – 04.06.2016.
9. **Dr. APJ. Abdul Kalam award for young scientist** instituted by Marina labs, research and development of Chennai, given in the recognition of research work on 22.11.2016.
10. **Prof. B.C. Haldhar best paper presentation award** in 13th DAE-BRNS Nuclear and radiochemistry symposium (NUCAR-2017) in KIIT University, Bhubaneswar, Odisha from 6th – 10th February, 2017.
11. **Best paper presentation award** in National conference on Advances in Water Resource and Environment Research” in Centre for remote sensing and Geoinformatics, Sathyabama University, Chennai from 29th – 30th June, 2017.
12. **Best paper presentation award** in National conference on Emerging trends in Environmental research in SSN college of Engineering, Chennai on 22nd July, 2017.
13. **Best young researcher award** instituted by GRABS educational charitable trust, Chennai given in the recognition of research work on 18.04.2018.

14. **Best Paper presentation award** in National Conference on water and climate (NCWC-2024) held on virtual platform organized by School of Civil engineering (SCE), Vellore Institute of Technology, Chennai, India on 23rd & 24th April, 2024.

INVITED LECTURE

- Given a expert lecture on World Environment Day 2024 events in Indian Institute of Tropical Meteorology (IITM), Pune on 05.06.2024.

TECHNICAL EXPERIENCE

- ✓ Worked on Hydrological projects related to groundwater source, quality, chemistry, recharge, lithological influence and groundwater contamination.
- ✓ Expertized in conducting field work for sampling and measurement of water and for chemical, radon and isotope studies.
- ✓ Profound efficiency in operating the Spectrophotometer, Flame photometer, Total carbon analyzer, Voltammetry, Ion chromatograph, Laser fluorimeter, RAD7 detector, Smart radon meter.
- ✓ Expertized in sediment sample collection (Pit and Core samples) and profound efficiency in operating Sieve Shakers for Granulometric analysis.

ADDITIONAL SKILLS

- ✓ Well proficient with Windows operating systems. Quite familiar in working with Visual basic, Origin, Excel and other office software.
- ✓ Experienced in application of models PHREEQC, WATEQ4F, AQUACHEM to predict the geochemical condition of subsurface water.
- ✓ Developed a geochemical software “WATCLAST version 2” in Visual basic for the classification of thermodynamic studies of groundwater in the year 2012.
- ✓ Compilation and interpretation of large set of data using statistical softwares like SPSS, MAP Info professional, IP2Win, ROCKWORKS.
- ✓ Ability to write articles, manuscripts to scientific research journals.

RESEARCH PUBLICATIONS IN JOURNAL

PAPERS PUBLISHED AS FIRST AUTHOR

1. **Thivya C**, Chidambaram S, Prasanna MV, Thilagavathi R, Mahalakshmi M, Devaraj N, Dhanu Radha (2021) Potential interplay of Uranium with geochemical variables and mineral saturation states in groundwater. *Applied water science*. <https://doi.org/10.1007/s13201-021-01396-3>
2. **Thivya C**, Tirumalesh K, Gnanachandrasamy G, Shankar K, Venkatramanan S, Chidambaram S, Prasanna M V (2021) Occurrence of Heavy Metals in Groundwater Along the Lithological Interface of K/T Boundary, Peninsular India: A Special Focus on Source, Geochemical Mobility and Health Risk. *Arch Environ Contam Toxicol*. 80, 183–207. ISSN No. 1432-0703.
3. **Thivya C**, Chidambaram S, Devaraj N, Thilagavathi R, Banaja Rani Panda, Tirumalesh K, Prasanna MV, Vasudevan U, Ramanathan AL (2019) Geochemical process-based characterization of groundwater along the KT boundary of South India. *Chemie der Erde – Geochemistry*, DOI. 10.1016/j.geoch.2018.11.005. ISSN No. 0009-2819
4. **Thivya C**, Chidambaram S, Thilagavathi R, Venkatraman, Ganesh N, Banajarani Panda, Prasanna MV (2018) Short-term Periodic Observation of the Relationship of Climate Variables to Groundwater Quality along the KT Boundary. *Journal of Climate Change*, Vol. 4, No. 2, pp. 77–86. ISSN No. 2395-7697.
5. **Thivya C**, Chidambaram S, Thilagavathi R, Tirumalesh K, Nepolian M, Prasanna MV (2017) Spatial and temporal variations of radon concentrations in groundwater of hard rock aquifers in Madurai district, India, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 313, pp.603-609.ISSN No. 1588-2780.
6. **Thivya C**, Chidambaram S, Thilagavathi R, Nepolian M (2016) Determination of utility of groundwater with special emphasis on domestic and irrigation purposes in hard rock aquifers of Madurai district, Tamilnadu. *Enviro Geo Chimica Acta*, Vol. No. 3(1), pp. 71-80. ISSN No. 2348- 7259.
7. **Thivya C**, Chidambaram S, Rao MS, Gopalakrishnan M, Thilagavathi R, Prasanna MV, Nepolian M (2016) Identification of recharge processes in groundwater in hard rock aquifers of Madurai district using stable isotopes. *Environmental processes*, Vol. No.3, pp.463-477. ISSN No. 2198-7505.
8. **Thivya C**, Chidambaram S, Thilagavathi R, Tirumalesh Keesari, Rao MS, Prasanna MV, Nepolian M (2015) Occurrence of high uranium and radon in hard rock aquifers of south India- Evaluating the temporal and spatial trends. *Groundwater for Sustainable Development*, Vo.2, 68-77. ISSN No. 2352-801X.
9. **Thivya C**, Chidambaram S, Thilagavathi R, Prasanna MV, Singaraja C, Adithya VS, Nepolian M (2015) A multivariate statistical approach to identify the spatio-temporal variation of geochemical process in a hard rock aquifer. *Environmental monitoring assessment*, 187:552. ISSN No.1573-2959.
10. **Thivya C**, Chidambaram S, Rao MS, Thilagavathi R, Prasanna MV, Manikandan S (2015) Assessment of fluoride contaminations in groundwater of hard rock aquifers in

Madurai district, Tamil Nadu (India), *Applied water science*, Vol. No. 7, pp. 1011–1023. ISSN No. 2190-5495.

11. **Thivya C**, Chidambaram S, Tirumalesh Keesari, Prasanna MV, Thilagavathi R, Adithya VS, Singaraja C (2015) Lithological and hydrochemical controls on distribution and speciation of uranium in groundwaters of hard-rock granitic aquifers of Madurai District, Tamil Nadu (India). *Environmental geochemistry and health*, Vol.37, pp.3. ISSN No. 1573-2983.
12. **Thivya C**, Chidambaram S, Tirumalesh Keesari, Prasanna MV, Thilagavathi R, Nepolian M (2014) Occurrence of the radionuclides in groundwater of crystalline hard rock regions of central Tamil Nadu, India. *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 302, pp. 1349–1355. ISSN No. 1588-2780.
13. **Thivya C**, Chidambaram S, Thilagavathi R, Prasanna M.V, Nepolian M, Tirumalesh K, Noble Jacob (2014) Spatio-temporal identification of regions with anomalous values of ²²²Rn in groundwater of Madurai district, Tamilnadu, India. *Environmental process*, Vol. No.1, pp. 353–367. ISSN No. 2198-7505.
14. **Thivya C**, Chidambaram S, Thilagavathi R (2014) Evaluation of Drinking water quality index (DWQI) and its seasonal variations in hard rock aquifers of Madurai district, Tamilnadu. *International Journal of Advanced Geosciences*, Vol. 2(2), pp. 48 -52. ISSN No. 2311-7044.
15. **Thivya C**, Chidambaram S, Thilagavathi R, Adithya VS, Nepolian M, Singaraja C (2014) A study on the seasonal variations of groundwater quality in hard rocks aquifer of Madurai district, Tamilnadu. *Enviro Geo Chimica Acta*, Vol.1(4): pp.243-248. ISSN No. 2348- 7259.
16. **Thivya C**, Chidambaram S, Singaraja C, Thilagavathi R, Prasanna MV and Jainab (2013) A study on the significance of lithology in groundwater quality of Madurai district, Tamil Nadu (India). *Environment, Development and Sustainability*, Vol.No.15, pp.1365-1387. ISSN No. 1573-2975.
17. **Thivya C**, Chidambaram S, Thilagavathi R, Prasanna MV, Singaraja C, Nepolian M, Sundarrajan M (2013) Identification of the geochemical processes in groundwater by factor analysis in hard rock aquifers of Madurai district, South India. *Arabian Journal of Geosciences*, Vol. No.7, pp. 3767 – 3777. ISSN No. 1866-7511.

PAPERS PUBLISHED AS CO-AUTHOR

1. Chidambaram S, Prasanna MV, Venkatramanan S, Nepolian M, Pradeep K, Banajarani panda, **Thivya C**, Thilagavathi R (2022) Groundwater quality assessment for irrigation by adopting new suitability plot and spatial analysis based on fuzzy logic techniques, *Environmental research*, Vol. 204 111729. ISSN: 0013-9351.
2. Devaraj N, Chidambaram S, Pradeep K, Mahalakshmi M, Muhammed Haji, Prasanna MV, **Thivya C**, Thilagavathi R (2022) Impact of monsoon shower on the hydrogeochemistry of groundwater along the lithological contact: a case study from South India. *Applied Water Science*, 12:36, <https://doi.org/10.1007/s13201-021-01538-7>. ISSN No. 2190-5495.
3. Adithya VS, Chidambaram S, Prasanna MV, Venkatramanan, Tirumalesh K, **Thivya C**, Thilagavathi R (2021) Health risk implication and spatial distribution of radon in

groundwater along the lithological contact in south India. *Archives of environmental contamination and toxicology*, 80 (1), 308-318. ISSN No. 0090-4341.

4. Thilagavathi R., Chidambaram S., **Thivya C.**, Banajarani Panda., Mahalakshmi M., Ganesh N., Devaraj N., Meenu Ghai, Dhiraj Kumar Singh, Ramanathan AL., (2021) Geochemical variations due to salinization in groundwater along the southeast coast of India. *SN Applied Sciences*. 3:581 <https://doi.org/10.1007/s42452-021-04551-2>.
5. Thilagavathi, R., Chidambaram S., **Thivya C**, Banajarani Panda , Ganesh N (2020) Assessment of sources and distribution metals in groundwater of Pondicherry region, India. *International Journal of Civil, Environmental and Agricultural Engineering*, 33-53 Vol. 2 Iss. 2 (E-ISSN 2582-2721).
6. Adithya VS, Chidambaram S, Tirumalesh K, **Thivya C**, Thilagavathi R, Venkatramanan S, Prasanna MV, Dhanu Radha S (2020) Seasonal changes in groundwater quality deterioration and chemometric analysis of pollution source identification in South India. *Environmental Science and Pollution Research*. 27 (16), pp. 20037-20054. ISSN No. 1614-7499.
7. Banajarani Panda, Chidambaram S, **Thivya C**, Thilagavathi R, Tirumalesh K, Devaraj N (2020) An attempt to determine the behavior of metals and their dependent thermodynamic saturation states in the groundwater along mountain front and riparian zone. *Environmental Earth Sciences*, 79 (1), 1-17. ISSN No. 1866-6299.
8. Devaraj N, Chidambaram S, Vasudevan U, Pradeep K, Nepolian M, Prasanna MV, Aditya VS, **Thivya C**, Thilagavathi R, Banaja rani panda (2020) Determination of the major geochemical processes of groundwater along the Cretaceous-Tertiary boundary of Trichinopoly, Tamilnadu, India. *Acta Geochimica*, 39 (5), 760-781. ISSN No. 2365-7499.
9. Tirumalesh K, Chidambaram S, Pethaperumal S, Sundararajan M, Thilagavathi R, **Thivya C**, Diana Anubom Sharma, Sinha UK (2020) Geochemical and $\delta^{13}C$ trends in sedimentary deposits of coastal Pondicherry region, East coast of India—Insights from a borehole study. *Geochemistry*, 80 (4), 125553. ISSN: 1880-5973.
10. Thilagavathi R, Chidambaram S, **Thivya C**, Tirumalesh K, Venkatramanan S, Pethaperumal S, Prasanna M V, Ganesh N (2019) Influence of variations in rainfall pattern on the hydrogeochemistry of coastal groundwater—an outcome of periodic observation. *Environmental Science and Pollution Research*, <https://doi.org/10.1007/s11356-019-05962-w>. ISSN No. 1614-7499.
11. Banajarani Panda, Chidambaram S, Tirumalesh K, Ganesh N, **Thivya C**, Thilagavathi R, Venkatramanan S, Prasanna M V, Devaraj N, Ramanathan A L (2019) An Integrated Novel Approach to Understand the Process of Groundwater Recharge in Mountain and Riparian Zone Aquifer System of Tamil Nadu, India. *Aquatic Geochemistry*, Vol. 25, Issue 3–4, pp 137–159. ISSN No. 1573-1421.
12. Chidambaram S, Sarathidasan J, Srinivasamoorthy K, **Thivya C**, Thilagavathi R, Prasanna MV, Singaraja C, Nepolian M (2018) Assessment of hydrogeochemical status of groundwater in a coastal region of Southeast coast of India. *Applied Water Science*, 8, 1-27. ISSN No. 2190-5495.
13. Devaraj N, Chidambaram S, Panda B, **Thivya C**, Thilagavathi R, Ganesh N (2018) Geo-electrical approach to determine the lithological contact and groundwater quality

- along the KT boundary of Tamilnadu, India. *Modeling Earth Systems and Environment*, Vol. No. 4, pp. 269-279. ISSN No. 2363-6211.
14. Devaraj N, Chidambaram S, Rakesh Roshan Gantayat, **Thivya C**, Thilagavathi R, Prasanna MV, Banajarani P, Adithya VS, Vasudevan U, Pradeep K, Paramaguru P, Ganesh N (2018). An insight on the speciation and genetical imprint of bicarbonate ion in the groundwater along K/T boundary, South India. *Arabian Journal of Geosciences*. Vol.11, pp. 291. ISSN No. 1866-7511.
 15. Banajarani Panda, Chidambaram S, Thilagavathi R, **Thivya C**, Ganesh N, Devraj N (2017) Geochemical signatures of groundwater along mountain front and riparian zone of Courtallam, Tamilnadu. *Groundwater for Sustainable Development*. Vol. 7, pp. 372-386. ISSN No. 2352-801X.
 16. Chidambaram S, Nepolian M, Ramanathan AL, Sarathidasan J, Thilagavathi R, **Thivya C**, Prasanna MV, Srinivasamoorthy K, Noble Jacob, Hemant Mohokar (2017) An attempt to identify and estimate the subsurface groundwater discharge in the south east coast of India. *International journal of sustainable built environment*, Vol. No. 6, pp. 421-433. ISSN No. 2212-6090.
 17. Thilagavathi R, Chidambaram S, **Thivya C**, Prasanna MV, Tirumalesh K, Pethaperumal S (2017) Assessment of groundwater chemistry in layered coastal aquifers using multivariate statistical analysis. *Sustainable Water Resources Management*, Vol. No.3. pp.55–69. ISSN No. 2363-5045.
 18. Prasanna MV, Nagarajan R, Chidambaram S, Anand Kumar A, **Thivya C** (2016) Evaluation of hydrogeochemical characteristics and the impact of weathering in seepage water collected within the sedimentary formation, *Acta geochimica*, Vol.36, pp.44-51. ISSN No. 2365-7499.
 19. Devaraj N, Chidambaram S, **Thivya C** (2016) Evaluation of groundwater quality in and around Ariyalur of Tamilnadu using Geographical Information System. *IOSR Journal of Applied Geology and Geophysics*. Vol. 4, pp. 15-20. ISSN No. 2321-0990.
 20. Thilagavathi R, Chidambaram S, **Thivya C**, Prasanna MV, Tirumalesh K, Pethaperumal S (2016) Dissolved organic carbon in multi-layered aquifers of Pondicherry region (India): Spatial and temporal variability and relationships to major ion chemistry. *National resources research*, Vol. 26, pp. 119–135. ISSN No. 1573-8981.
 21. Venkatesan D, Suresh Gandhi M, **Thivya C** (2016) Quality of groundwater and hydrogeochemical processes in hard rock region of Salem Taluk, Tamilnadu. *EnviroGeoChimica Acta*, Vo. 3(1), pp. 63-70. ISSN No. 2348- 7259.
 22. Sivakarun N, Chidambaram S, **Thivya C**, Udayaganesan P, Paramaguru P, Pradeep K, Ganesh N, Anandhan P (2016) GIS based approach to understand the factors influencing the water level of the coastal aquifers in the Ramnad district, Tamilnadu, India. *International journal of advanced geosciences*, 4(2), 54-61. ISSN No. 2311-7044.
 23. Krishna Kumar S, Haribabu S, Eswar rao P, Selvakumar S, **Thivya C**, Muralidharan S, Jeyabal G (2016) Evaluation of water quality and hydrogeochemistry of surface and groundwater, Tiruvallur district, Tamilnadu, India. *Applied water science*, Vol. No.7, pp. 2533-2544. ISSN No. 2190-5495.
 24. Nepolian M, Chidambaram S, **Thivya C**, Thilagavathi R, Rakesh roshan Gantayat, Paramaguru P, Pradeep K (2016) A study on the spatial analysis of dissolved silica in groundwater of villupuram district of Tamilnadu. *International journal of Geology and Earth sciences*, Vol.2, pp.2. ISSN No. 2395-647X.

25. Chidambaram S, Thilagavathi R, **Thivya C**, Karmegam U, Prasanna MV, Ramanathan AL, Tirumalesh K, Sasidhar P (2016) A study on the arsenic concentration in groundwater of a coastal aquifer in south-east India: an integrated approach. *Environmental development and sustainability*, Vol. No. 19, pp. 1015–1040. ISSN No. 1573-2975.
26. Nepolian M, Chidambaram S, **Thivya C**, Paramaguru P, Pradeep K, Banaja Rani Panda, Devaraj N, Vasudevan U (2016) Assessment of hydrogeochemical and quality studies in groundwater of Villupuram district, Tamilnadu. *International research journal of earth sciences*, Vol. No. 4(3), pp.1-8. ISSN No. 2321-2527.
27. Devaraj N, **Thivya C**, Thilagavathi R, Adithya VS, Chidambaram S (2016) A study on hydrogeochemical processes and groundwater quality of Ariyalur region, Tamilnadu. *International journal of current research and development*, Vol. 4(1), pp.1-13. ISSN No. 0975-833X; SJIF.
28. Adithya VS, Chidambaram S, **Thivya C**, Thilagavathi R, Prasanna MV, Nepolian M, Ganesh N (2016) A study on the impact of weathering in groundwater chemistry of a hard rock aquifer. *Arabian journal of geosciences*, Vol. No.9, pp.158. ISSN No. 1866-7511.
29. Thilagavathi R, Chidambaram S, Pethaperuamal S, **Thivya C**, Rao MS, Tirumalesh K, Prasanna M V (2016) An attempt to understand the behaviour of dissolved organic carbon in coastal aquifers of Pondicherry region, South India. *Environmental earth sciences*, Vol. No.75, pp. 235. ISSN No. 1866-6299.
30. Thilagavathi R, Chidambaram S, Prasanna MV, **Thivya C**, Tirumalesh K, Pethaperumal S (2016) An attempt to classify the aquifers based on geochemical nature of groundwater using GIS. *Journal of Applied geochemistry*, Vol.18, pp.504-515. ISSN No. 2319-4316.
31. Sakthivel R, Madheshwaran AS, **Thivya C**, Akhila P, Yoganathan K (2015) Geoinformatics based natural disaster management- A case study from Yercaud hills, Tamilnadu, India. *Procedia Earth and Planetary Science*, Vol. No.11, pp. 357-364. ISSN No. 0000-2011.
32. Chidambaram S, Ramanathan AL, **Thivya C**, Thilagavathi R, Sarathidasan J, Pradeep (2015) Vulnerability assessment of groundwater in coastal aquifers. *Journal of Centre for groundwater studies*, Vol. 4, pp.1-15. ISSN No. 2347-8063.
33. Thilagavathi R, Chidambaram S, **Thivya C**, Prasanna M V, Pethaperuamal S and Tirumalesh K (2014) A Study on the Behaviour of Total Carbon and Dissolved Organic Carbon in Groundwaters of Pondicherry Region, India. *International Journal of Earth Sciences and Engineering*, Vol. No. 07, pp.1537-1550. ISSN No. 0974-5904.
34. Thilagavathi R, Chidambaram S, **Thivya C**, Prasanna MV, Singaraja C, Tirumalesh K, Pethaperumal S (2014) Delineation of natural and anthropogenic process controlling hydrogeochemistry of layered aquifer sequence. *Proceedings of the national academy of sciences*, Vol. No. 84(1), pp. 95 – 108. ISSN No. 2250-1746.
35. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Tirumalesh K, Ganesh N, Prasanna MV, Kamalesh M (2014) A study on the impact of agriculture on alluvial aquifers of Pondicherry region- A statistical approach. *Enviro Geo Chimica Acta*, Vol. No.1(3), pp.228-235. ISSN No. 2348- 7259.
36. Singaraja C, Chidambaram S, Anandhan P, **Thivya C**, Thilagavathi R (2014) Hydrogeochemistry of groundwater from Tuticorin district, Tamilnadu, India. *Enviro Geo Chimica Acta*, Vol. No.1(2), pp.172-179. ISSN No. 2348- 7259.
37. Singaraja C, Chidambaram S, Srinivasamoorthy K, **Thivya C**, Thilagavathi R, Sarathidasan J (2013) Study on the Groundwater quality using WATCLAST program

- in coastal aquifers of Cuddalore district. *Inventi Rapid: Water and environment*, Vol. 2014, pp.1-5. ISSN No. 2229-7766.
38. Singaraja C, Chidambaram S, Anandhan P, Prasanna MV, **Thivya C**, Thilagavathi R, Sarathidasan J (2013) Determination of the utility of groundwater with respect to the geochemical parameters: a case study from Tuticorin district of Tamilnadu (India). *Environment, Development and sustainability*, Vol. No.16, pp. 689 – 721. ISSN No. 1573-2975.
 39. Singaraja C, Chidambaram S, Prasanna MV, **Thivya C**, Thilagavathi (2013) Statistical analysis of the hydrogeochemical evolution of groundwater in hard rock coastal aquifers of Thoothukudi district in Tamilnadu, India. *Environmental Earth Sciences*, Vol. No.71, pp. 451 – 464. ISSN No. 1866-6299.
 40. Chidambaram S, Manikandan S, Ramanathan AL, Prasanna MV, **Thivya C**, Karmegam U, Thilagavathi R, Rajkumar K (2013) A study on the deflouridation in water by using natural soil. *Applied Water Science*, Vol. No. 3, pp.741 – 751. ISSN No. 2190-5495.
 41. Singaraja C, Chidambaram S, Anandhan P, Prasanna MV, **Thivya C**, Thilagavathi R and Sarathidasan J (2013) Hydrochemistry of groundwater in a coastal region and its repercussion on quality, a case study- Thoothukudi district, Tamilnadu, India. *Arabian Journal of Geoscience*, Vol. No.7, pp. 939-950. ISSN No. 1866-7511.
 42. Singaraja C, Chidambaram S, Anandhan P, Prasanna MV, **Thivya C**, Thilagavathi R (2013) Appraisal of water quality pollution indices for heavy metal contamination monitoring: A case study from Thoothukudi districts, Tamilnadu, India. *Inventi Rapid: Water and Environment*. Vol. 2013, pp. 1-5. ISSN No. 2229-7766.
 43. Singaraja C, Chidambaram S, Anandhan P, Prasanna MV, **Thivya C**, Thilagavathi R (2013) Classification of groundwater chemistry in an eastern coastal area of Tuticorin district, Tamilnadu (India) using statistical analysis. *International journal of advanced engineering applications*, Vol.No.2, pp.62-69. ISSN No. 2454-2377.
 44. Singaraja C, Chidambaram S, Anandhan P, Prasanna M V, **Thivya C**, Thilagavathi R (2013) Physico-chemical characteristics of ground water of Tuticorin district, Tamilnadu, India. *Inventi Rapid: Water & Environment*, Vol. 2013, pp. 1-5. ISSN No. 2229-7766.
 45. Thilagavathi R, Chidambaram S, Prasanna MV, **Thivya C**, Singaraja C. (2012). A study on groundwater geochemistry and water quality in layered aquifers system of Pondicherry region, southeast India. *Applied Water Science*, Vol. No.2, pp.253 – 269. ISSN No. 2190-5495.
 46. Singaraja C, Chidambaram S, Anandhan P, Prasanna MV, **Thivya C**, Thilagavathi R (2012) A study on the status of fluoride ion in groundwater of coastal hard rock aquifers of south India. *Arabian journal of Geosciences*, Vol. No.6, pp. 4167 – 4177. ISSN No. 1866-7511.
 47. Singaraja C, Chidambaram S, Prasanna MV, Paramaguru P, Johnsonbabu G, **Thivya C**, Thilagavathi R (2012) A study on the behaviour of the dissolved oxygen in the shallow coastal wells of Cuddalore district, Tamilnadu, India. *Water quality Exposure and Health*, Vol. No. 4, pp. 1 – 16. ISSN No. 1876-1658.
 48. Manikandan S, Chidambaram S, Prasanna MV, **Thivya C**, Karmegam U (2011). Hydrochemical characteristics and Groundwater quality assessment in Krishnagiri district, Tamilnadu, India. *International Journal of Earth Sciences and Engineering*, Vol. No. 04(04), pp. 623–632. ISSN No. 0974-5904.
 49. Arunachalam S, Maharani K, Chidambaram S, Prasanna M V, Manivel M, **Thivya C** (2011) A study on the Land use pattern change along the coastal region of

BOOK PUBLISHED AS EDITOR

Chidambaram S, **Thivya C**, Thilagavathi R (2017) Applications of modern techniques in groundwater studies. Dalton publishing house, New Delhi. ISBN-978-81-928671-7-5

BOOK PUBLISHED AS CO-AUTHOR

Thilagavathi R, Chidambaram S, **Thivya C** (2017) Signature of Dissolved Organic Carbon in Layered Coastal Aquifers, Lambert publication, Germany, pp. 95, ISBN No. 978-3330023741.

BOOK CHAPTERS

1. Thilagavathi R, **Thivya C**, Chidambaram S, Prasanna MV (2013) An Approach to study the hydrogeological and hydrogeochemical parameters using GIS. Geospatial Technologies. S.Vasudevan, T.Ramkumar, G.Ramesh (eds), New Academic Publishers, ISBN, 978-81-86772-56-0, pp. 199-208.
2. **Thivya C**, Chidambaram S, Prasanna MV, Ramesh R, Paramaguru P, Manivannan R, Anandhan P (2013) A study on the variation in water quality of surface and deep waters in Veeranam lake, Tamilnadu. New Academic publisher, ISBN 978-81-867772-57-7, pp.26-37.
3. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Tirumalesh K, Prasanna MV (2014) An Attempt to study the hydrogeochemistry of ground water in coastal layered aquifer of Pondicherry region- South East India, Coastal tech, IYAL Publications. ISBN: 9788192864662, pp.300-309.
4. Chidambaram S, Thilagavathi R, **Thivya C**, Prasanna MV, Ganesh N, Karmegam U (2015) A comparative study on the arsenic in groundwater of Gangetic alluvium on the coastal aquifers of India. Publisher: Safe and sustainable use of arsenic contaminated aquifer in the gangetic plain. Editors: AL. Ramanathan, S. Johonseon, A. Mukerjee, B. Nath. Capital publishing company, ISBN 9783319161242, pp. 197-212.
5. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Tirumalesh K, Prasanna MV (2016) Application of Statistical Techniques to Identify the Hydrogeochemical Processes in Coastal Aquifers of Pondicherry Region, Tamil Nadu. Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment. N. Janardhana Raju,(eds), Springer. pp. 251-258, ISBN 978-3-319-18663-4.
6. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Tirumalesh K, Prasanna M V (2016) Comparison of Radon and Dissolved Organic Carbon in Groundwater of Pondicherry region-South India. Coastal Groundwater Modern Observations, T.Ramkumar, G.Ramesh and S.Vasudevan (eds) Orchid's Publishers pp.116-127. ISBN.978-1-4116-8691-5.

7. Nepolian M, Chidambaram S, **Thivya C**, Thilagavathi R, Noble Jacob, Manivannan R, Anandhan P, Mohokar Hemant Ajay (2016) A Study on the identification of Submarine Groundwater Discharge in Pichavaram region South east coast of India. Coastal Groundwater Modern Observations, T.Ramkumar, G.Ramesh and S.Vasudevan (eds) Orchid's Publishers, pp.145-152. ISBN.978-1-4116-8691-5.
8. **Thivya C**, Chidambaram S, Thilagavathi R, Prasanna MV, Singaraja C (2017) A study on the lithological influence on uranium concentration in groundwater of hard rock aquifers of Madurai district, Tamilnadu. Groundwater: Hydrogeochemical investigation using integrated techniques, S. Chidambaram (eds) My research publications, pp.221, ISBN 978-93-86546-47-0
9. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Tirumalesh K, Singaraja C (2017) Understanding the distribution of dissolved organic carbon in layered coastal aquifers of Pondicherry region. Groundwater: Hydrogeochemical investigation using integrated techniques, S. Chidambaram (eds) My research publications, pp.201, ISBN 978-93-86546-47-0
10. Vasudevan U, Chidambaram S, **Thivya C**, Thilagavathi R, Devaraj N (2017) A study on the impact of landuse pattern on groundwater in an around Chidambaram town. Groundwater: Hydrogeochemical investigation using integrated techniques, S. Chidambaram (eds) My research publications, pp.241, ISBN 978-93-86546-47-0
11. Singaraja C, Chidambaram S, Anandhan P, **Thivya C**, Thilagavathi R (2017) Use of geochemical methods to evaluate the hydraulic connection of aquifers: A case study from southeast coast of Tamilnadu, India. Groundwater: Hydrogeochemical investigation using integrated techniques, S. Chidambaram (eds) My research publications, pp.185, ISBN 978-93-86546-47-0.
12. Chidambaram S, **Thivya C**, Ramanathan AL, Thilagavathi R, Prasanna MV (2018). Characterisation of coastal aquifers in SE coast of India. In: Mukherjee A. (eds) Groundwater of South Asia. Springer Hydrogeology. Springer, Singapore. ISBN: 978-981-10-3898-1.
13. Banajarani P, Dhanu RV, Chidambaram S, Arindam M, Thilagavathi R, Manikandan S, **Thivya C**, Ramanathan A L, Ganesh N (2019) Fluoride contamination in groundwater – a GIS & Geostatistics reappraisal. Chapter-22, pp. 309-322. In Senapathi et al. (eds), GIS and Geostatistical Techniques for Groundwater Science. ISBN: 9780128154137.
14. S. Chidambaram, S. Pethaperumal, R. Thilagavathi, V. Dhanu Radha, C. Thivya, M.V. Prasanna, K. Tirumalesh and Banaja Rani Panda, Seasonal Variations of Groundwater Geochemistry in Coastal Aquifers, Pondicherry Region, South India. In: Mu. Ramkumar, R. Arthur James, David Menier and K. Kumaraswamy (eds.) Coastal Zone Management. Burlington: Elsevier, 2019. pp. 361-380. ISBN: 978-0-12-814350-6.
15. Devaraj N, Chidambaram S, Banajarani Panda, Thivya C, Tirumalesh K (2020) Determination of anthropogenic sources in the groundwater chemistry along KT boundary of South India. Emerging Issues in the Water Environment during Anthropocene, 127-142. Book Series: Springer Transactions in Civil and Environmental Engineering. Editors: Dr. Manish Kumar, Dr. Daniel D. Snow, Dr. Ryo Honda. Publisher: Springer Singapore. Print ISBN: 978-981-329-770-8.

PUBLICATIONS IN ISBN PROCEEDINGS

1. Chidambaram, S. Manivannan, R. Thilagavathi, R. **Thivya, C**, Uma Maheswaran, T. Karmegam, U. Manikandan, S. (2012), A study on the distribution of trace element in groundwater of Dindigul district, Tamilnadu. Proceedings of fourth international groundwater conference, impact of climate change on groundwater resources with special reference to hard rock terrain. ISBN No. 9789350678398, pp.471-483.
2. Adithya VS, Chidambaram S, Tirumalesh K, **Thivya C**, Thilagavathi R, Prasanna MV (2016) Assessment of sources for higher Uranium concentration in ground waters of the Central Tamilnadu, India, CUTSE2015, IOP Publishing, IOP Conf. Series: Materials Science and Engineering 121 (2016) 012009 doi:10.1088/1757-899X/121/1/012009.

PUBLICATIONS IN NON- ISBN PROCEEDINGS

1. Chidambaram S, Thilagavathi R, **Thivya C**, Manivannan R, Tirumalesh K, Singaraja C, Karmegam U (2011) A review on the status of isotope applications in groundwater hydrology of India. Workshop volume on Challenges ahead in the groundwater sector of Tamilnadu. Hosted by Government of India, Ministry of water resources, Central groundwater board, Southern eastern coastal region, India.
2. Chidambaram S, Thilagavathi R, **Thivya C**, Karmegam U, Ramanathan AL, Prasanna MV, Sasidhar (2012) A study on the arsenic concentration in groundwaters of a coastal aquifer in south East India – an integrated approach. Proceedings of the Indo-Australian workshop on Arsenic, 58-60pp.
3. **Thivya C**, Chidambaram S, Thilagavathi R, Singaraja C, Nepolian M, Sarathidasan J (2013) An alternate water management for reduce the usage of groundwater for agricultural purposes by tank irrigation method. One day workshop on Alternate water management strategies on January 25th, 2013 in Department of Earth Sciences, Annamalai University.
4. Thilagavathi R, Chidambaram S, **Thivya C**, Singaraja C, Nepolian M, Sarathidhasan J (2013) Water Management Strategies with Special Reference to Stratified Aquifers of Pondicherry, One day workshop on Alternate water management strategies on January 25th, 2013 in Department of Earth Sciences, Annamalai University.
5. Singaraja C, Chidambaram S, Anandhan P, **Thivya C**, Thilagavathi R (2013) A study on the seawater intrusion and fluoride ion in groundwater of coastal hard rock aquifers- Alternate water management strategies of Tuticorin district, Tamilnadu, India. One day workshop on Alternate water management strategies on January 25th, 2013 in Department of Earth Sciences, Annamalai University.
6. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Singaraja C, Tirumalesh K, Nepolian M (2013) Study on the impact of the sea water intrusion in the alluvial aquifer of the Pondicherry region, Tamilnadu. Workshop on Seawater intrusion in coastal

aquifers with reference to coasts of Tamilnadu state and Union territory of Tamilnadu of puducherry, CGWB.

7. **Thivya C**, Chidambaram S, Thilagavathi R, Tirumalesh K, Prasanna MV (2013) A study on the anomalies of Uranium and Radon concentration in groundwater from hard rock aquifers of Madurai district, Tamilnadu. International conference on Advances in water resources development and management in Punjab University, Punjab from October 23-27, 2013 (AWRDM-2013).
8. Thilagavathi R, Chidambaram S, Pethaperumal S, **Thivya C**, Tirumalesh K, Prasanna MV (2013) Study on the nature of the evaluation of hydrogeochemical parameters in stratified aquifers of the Pondicherry region –South East India. International conference on Advances in water resources development and management in Punjab University, Punjab from October 23-27, 2013 (AWRDM-2013).
9. Thilagavathi R, Chidambaram S, **Thivya C**, Pethaperumal S, Prasanna MV. A study on the seasonal variation in water quality appraisal in layered aquifers of Pondicherry region. Workshop volume on Water conservation, water security and water quality under water revolutionary campaign, Jal kranthi abhiyan 2015-16, CGWB.

TRAINING PROGRAMS ATTENDED

1. Training undergone on Structural mapping camp in and around Sirumugai, Coimbatore, Tamilnadu during January 2 to 13, 2008.
2. Undergone Inplant training in Geology Department, Neyveli lignite corporation, Tamilnadu from May to June 2009.
3. Training programme on Hydrogeochemical modeling assessment and management of urban & coastal groundwater conducted by the School of Environmental Sciences, Jawaharlal Nehru University New Delhi during 17th to 23rd October 2011.
4. Water management training on February 15th and 16th 2012 organized by Government of India, Ministry of water resources, Central groundwater board, southeastern coastal region, Chennai.
5. Training programme on Hydrogeochemical Modeling using MODFLOW and PHREEQC conducted by Department of Earth Sciences, Annamalai University from 21st to 31st January, 2013.
6. Training undergone in BRNS-AEACI sixth school of Analytical chemistry (SAC-6) on Analytical chemistry division, Bhabha Atomic Research Centre, Mumbai from 13th – 20th, May 2013.
7. Training undergone on UGC sponsored National training programme on Placer deposits of the coast held at Department of Earth Sciences, Annamalai University, Annamalai Nagar from 17th to 21th March, 2014.
8. Training undergone on Multiphase approaches on assessment and sustainable management of stressed coastal aquifers held at Department of earth Sciences, Pondicherry University from 18th – 22nd May, 2016.
9. Training undergone on Applications of isotope techniques in water resources management held at Centre for water resources development and management

(CWRDM) under the aegis of Department of Science and Technology, Government of India from 14th -19th March, 2016.

10. Training undergone on Teachers Orientation Programme organized by National College (Autonomous), Tiruchirappalli from 11.03.2014 to 18.03.2014.
11. Training undergone on One week National level Online Faculty Development Programme on Outcome based education and application of generative AI in teaching and research organized by the Internal Quality Assurance Cell (IQAC) of Gauhati University, Assam in association with IPSR solutions limited from 17.04.2024 to 24.04.2024.

PAPER PRESENTATION

1. "A Study on the Uranium Concentration in the Hard rock region of Madurai district, Tamilnadu" 30th and 31th AHI, **National seminar** on Hydrology Hydrocare 2012 @ GRI-DU with a special colloquium on Geomatics in Water resources 11th & 12th, December, 2012 in Gandhigram rural institute, Dindigul, Tamilnadu.
2. a. "Spatial distribution of Radon in Groundwater's of Madurai district"
b. "An attempt to handle voluminous water chemistry data by using Visual Basic (WATCLAST Version 2)", **National seminar** on Sustainable management of Groundwater with special focus on Coastal aquifers(SMOGCAS) at Department of Earth Sciences, Annamalai University on 29th – 30th March 2012.
3. "A attempt to identify the probable sources of radon in groundwaters of Madurai district, Tamilnadu, India", **National seminar** on Application of Isotope and Radiation technology for societal benefits organized by Department of Environmental science, Bangalore university, Bangalore from June 21-23, 2012.
4. "Evaluation of the Radionuclides (Uranium and Radon) in groundwater of crystalline hard rocks regions of Madurai District in Tamil Nadu, India". DAE-BRNS Fifth symposium on nuclear analytical chemistry (NAC-V) held from 20.01.2014 to 24.01.2014 at Bhabha Atomic research centre, Mumbai.
5. "A study on the saturation index of Uranium minerals in groundwater of hard rock aquifers of Madurai district". **National seminar** on "Groundwater: Recent developments and Environmental issues (GWRDE-2014)" to be held on 25th and 26th September, 2014 in Centre for Geo Technology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu.
6. "Evaluation of DWQI and its seasonal variation in hard rock aquifers of Madurai district, Tamilnadu". **National conference** on COASTAL resource and Management strategies through spatial technology held on 13rd to 14th March, 2014 in Department of Industries and Earth Sciences, Tamil University, Thanjavur, Tamilnadu.
7. "A study on the seasonal variations of groundwater quality in hard rocks aquifer of Madurai district, Tamilnadu", **International conference** on Environmental Earth sciences, Accomplishments, plans and Challenges held on 19th to 22nd March 2014, University of Madras, Chennai.
8. "A study on the Uranium speciation and Saturation index of Groundwater in Hard rock aquifers of Madurai District, Tamilnadu". **National conference** on Disaster Mitigation

- and Management towards Sustainable Development (DMSD-2015) was held on April 16th – 17th, 2015 in the Periyar University, Salem – 11, Tamil Nadu.
9. “A study on the U speciation in groundwater of a hard rock aquifer in South India”. **First DAE-BRNS symposium** on current trends in analytical chemistry (CTAC-2015) held from 26.05.2015 – 29.05.2015 at Bhabha Atomic research centre, Mumbai.
 10. “Identification of recharge processes in groundwater of hard rock aquifers of Madurai district, Tamilnadu using stable isotopes- A hydrogeochemical approach”. **National seminar** on past and present geochemical processes- Impacts on Climate change held from 22nd to 23rd December 2015 at Jawaharlal Nehru University, New Delhi.
 11. “A study on heavy metals in hard rock aquifers of Madurai district, Tamilnadu”. **International conference on Geosciences and Environment and 32nd Annual convention of Indian Association of Sedimentologist** held from 07.01.2016 – 10.01.2016 at Department of Earth Sciences, Annamalai University, Tamilnadu.
 12. “Assessment of drinking water quality index (DWQI) in hard rock aquifers of Madurai district, Tamilnadu”. **International conference on Geosciences and Environment and 32nd Annual convention of Indian Association of Sedimentologist** held from 07.01.2016 – 10.01.2016 at Department of Earth Sciences, Annamalai University, Tamilnadu.
 13. “Determination of utility in groundwater with special emphasis on domestic and irrigation purposes in hard rock aquifers of Madurai district, Tamil nadu” in the **National seminar** on Groundwater and coastal aquifers held from 09.03.2016 – 10.03.2016 held at Department of Applied Geology, University of Madras, Tamilnadu.
 14. “A study on the seasonal variations of heavy metals in hard rock aquifers of groundwater of Madurai district, Tamilnadu” in the **National level seminar** on Environmental impact on earth resources and future challenges held during 23.03.2016 – 24.03.2016 at Department of Geology, Periyar University, Salem, Tamilnadu.
 15. “Seasonal and spatial behavior of uranium in groundwater of hard rock aquifers of Madurai district, Tamilnadu”. **National Geo-Research Scholars meet 2016** held from 01.06.2016 – 04.06.2016 at Wadia Institute of Himalayan Geology, Dehradun, Uttarkhand.
 16. Spatial and temporal variations of radon concentrations in groundwater of hard rock aquifers in Madurai district, India. **13th DAE-BRNS Nuclear and radiochemistry symposium (NUCAR-2017)** in KIIT University, Bhubaneswar, Odisha from 06.02.2017 – 10.02.2017.
 17. Geochemical and Isotopic behavior in groundwater of KT (Cretaceous-Tertiary) boundary of Tamilnadu. **National conference on Advances in Water Resource and Environment Research**” in Centre for remote sensing and Geoinformatics, Sathyabama University, Chennai from 29th – 30th June, 2017.
 18. A study on the spatial and temporal variations of Uranium and Radon in groundwater of Madurai district, Tamilnadu in **National conference** on Emerging trends in Environmental research in SSN college of Engineering, Chennai on 22nd July, 2017.
 19. A study on the seasonal variation of uranium in groundwater of Madurai district, Tamilnadu in a **National Conference** on Environmental monitoring, Impact assessment and Management in SSN college of Engineering, Chennai on March 16th, 2019.

20. Paper presentation award in **National Conference** on water and climate (NCWC-2024) held on virtual platform organized by School of Civil engineering (SCE), Vellore Institute of Technology, Chennai, India on 23rd & 24th April, 2024.

PERSONAL INFORMATION

Name : C. Thivya
Address : No.4/9, 2nd street, Lourdhusamy Pillai colony
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Tamilnadu, India
Husband Name : R. Rajagopalan
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Religion : Hindu
Date of Birth : 09.03.1988
Marital Status : Married
Mother Tongue : Tamil
Languages Known : Tamil, English and Hindi (to write and speak)
Telugu (to speak)