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LAST FIVE YEARS PUBLICATIONS

- 1. T.Subramani, S.Prabaharan and D.Karunanidhi, "Groundwater prospecting in a hard rock terrain, South India using Remote Sensing and GIS", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 44, Issue 9, pp. 1401 1408 (2015).
- 2. S.Arya, and T.Subramani, "Groundwater flow and fluctuation study using GIS in a hard rock region, South India", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 44, Issue 9, pp. 1422 1427 (2015).
- 3. N.Thilagavathi and T.Subramani, "Physicochemical analysis and quality assessment of groundwater in Chalk Hills, Mine Area, Salem, Tamil Nadu", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 44, Issue 9, pp. 1428 1435 (2015).
- 4. N.Thilagavathi, T.Subramani, M.Suresh and D.Karunanidhi, "Mapping of groundwater potential zones in Salem Chalk Hills, Tamil Nadu, India using remote sensing and GIS techniques", Environmental Monitoring and Assessment (EMAS), published by Springer. Vol. 187, Issue 164, pp. 1-17 (2015).
- 5. N.Thilagavathi, T.Subramani and M.Suresh, "Land use / land cover change detection analysis in Salem Chalk Hills, South India using remote sensing and GIS", Disaster Advances, Vol. 8, Issue 1, pp. 44-52 (2015).
- 6. V.Satheeskumar, T.Subramani, "Preliminary Investigation on Environmental Degradation due to Salinization of River and Groundwater in Thamirabarani Delta, South India", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 45, Issue 9, pp. 1148 1153 (2016).
- 7. J. Abdul Bari, G.Vennila, T.Subramani, M.Suresh, D.Karunanidhi and T.M. Shanmuga Raja, "Hydrogeochemical investigation of groundwater in Bhavani Taluk, Erode District, Tamil Nadu, India using GIS", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 45, Issue 9, pp. 1154 1161 (2016).
- 8. R.Arulmozhi and T.Subramani, "Ghat road alignment in Palamalai Hills, Tamil Nadu, India using Ghat Tracer, GPS and GIS", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 45, Issue 9, pp. 1162 1171 (2016).
- 9. G.Venkatesan and T.Subramani, "Case study on environmental impact due to industrial waste water in Vellore District, Tamil Nadu, India using Geospatial techniques", Middle-East Journal of Scientific Research, Vol. 24, pp. 152-159 (2016).
- 10. G.Venkatesan and T.Subramani, "Parameter finding for case study of environmental degradation due to industrial pollution in Vellore, Tamil Nadu, India using remote sensing and

- GIS techniques", International Journal of Science and Innovative Engineering & Technology, Vol. 1, (2016).
- 11. S.Prabaharan and T.Subramani, "Identification of Micro-Seeps Based on Mineral Alteration in a Part of Cauvery Basin, South India Using Hyperion Data", Indian Journal of Geo-Marine Sciences (IJMS), Vol. 45, pp. 1138 1147 (2016).
- 12. S.Hema & T.Subramani, "Water quality index of Cauvery River and its three tributaries, South India", Asian Journal of Research in Social Sciences and Humanities, published by Asian Research Consortium. Vol. 6, Issue 10, pp. 761-769 (2016).
- 13. R. Saravanan, P.D. Arumairaj & T. Subramani, "Experimental model study on ultimate uplift capacity of vertical pile in sand", Water and Energy International, published by Central Board of Irrigation & Power (CSIR). Vol. 60, Issue 1, pp. 58 66 (2017).
- 14. Anand Balasubramanian, Karunanidhi Duraisamy, Subramani Thirumalaisamy, Srinivasamoorthy Krishnaraj and Raneesh Kolladi Yatheendradasan, "Prioritization of subwatersheds based on quantitative morphometric analysis in lower Bhavani basin, Tamil Nadu, India using DEM and GIS techniques", Arabian Journal of Geosciences, published by Springer. Vol. 24, Issue 10, pp. 1-18 (2017). page 6 / 28 Dr. T.SUBRAMANI Professor, Department of Geology
- 15. S.Prabaharan, C.Lakhumanan & T.Subramani, "Geoscientific study to locate hydrocarbon prospective zones in a part of Cauvery Basin using Remote sensing and GIS techniques", Indian Journal of Geo-marine Sciences (IJMS), published by CSIR. Vol. 46, Issue 7, pp. 1447 1453 (2017).
- 16. S. Hema and T.Subramani, "Scientific Methods of Assessing Groundwater for Irrigation Purpose

 A Case Study in a Part of Cauvery River Basin, South India", Indian Journal of Ecology, Vol. 44,
 Issue 2, pp. 185-191 (2017).
- 17. S.Hema & T.Subramani, "Application of remote sensing & GIS for demarcation of groundwater potential zones in a part of Cauvery River Basin, South India A case study", Ecology Environment and Conservation, published by EM International. Vol. 23, Issue 1, pp. 217-227 (2017).
- 18. R.Saravanan, P.D.Arumairaj & T.Subramani, "Experimental Study on the Load Displacement Behavior of Vertical Pile in Sand Under Uplift Load", Journal of Advances in Chemistry, published by CIRWORLD, USA. Vol. 13, Issue 2, pp. 6001-6013 (2017).
- 19. Sathyapriya Subramanian, P.D.Arumairaj & T.Subramani, "Experimental and modelling study of clay stabilized with Bottom Ash- Eco Sand Slurry Pile", Geomechanics and Engineering, published by Techno-Press Ltd, Korea. Vol. 12, Issue 3, pp. 523-539 (2017).
- T.Subramani, S.P.Kasiviswanathan, C.Nesna & D.Karunanidhi, "Demarcation of landslide vulnerable zones in and around Achanakal, South India using remote sensing and GIS techniques", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 46, Issue 2, pp. 365-370 (2017).
- 21. R.Manonmani, R.Vidhya & T.Subramani, "Role of multi- scale in land use/land cover change simulation model –A study in Upper Kodaganar Basin, Tamil Nadu, India ", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR. Vol. 46, Issue 1, pp. 176-189 (2017).
- 22. R.Saravanan, P.D.Arumairaj & T.Subramani, "Estimation of uplift capacity of vertical Pile in cohesionless soil under uplift load", Eco. Env. & Cons, published by EM International. Vol. 24, pp. 48-50 (2018).

- 23. G.Venkatesan & T.Subramani, "Environmental degradation due to the industrial waste water discharge in Vellore District, Tamil Nadu, India", Indian Journal of Geo-Marine Sciences, published by CSIR. Vol. 47, Issue 11, pp. 2255-2259 (2018).
- 24. P. Karthikeyan, G. Vennila, R. Venkatachalapathy, T. Subramani, R. Prakash & M. K. Aswini, "Assessment of heavy metals in the surface sediments of the Emerald Lake using of spatial distribution and multivariate techniques", Environmental Monitoring And Assessment, published by Springer. Vol. 190, Issue 668, (2018).
- 25. R. Saravanan, P.D. Arumairaj & T. Subramani, "A study on behavior of vertical pile in sand under uplift load", Geotechnical Engineering Journal, published by SEAGS & AGSSEA. pp. 1-6 (2018). 58. D. Sakthivel, G. Vennila, D.Karunanidhi, K. Srinivasamoorthy, B. Anand & T. Subramani, "Hydrogeochemical characterization and evaluation of groundwater quality in Kangayam taluk, Tirupur district, Tamil Nadu, India, using GIS techniques", Environmental Geochemistry and Health, Dr. T.SUBRAMANI Professor, Department of Geology
- 26. S.Arya, G.Vennila & T.Subramani, "Spatial and seasonal variation of groundwater levels in Vattamalaikarai River basin, Tamil Nadu, India A study using GIS and GPS", Indian Journal of Geo-Marine Sciences, published by CSIR. Vol. 47, Issue 9, pp. 1749-1753 (2018).
- 27. S.Prabaharan, C.Lakshumanan & T.Subramani, "Geomorphic Anomalies and Natural Resource of Krishna Godavari Basin Using Remote Sensing Techniques", International Journal of Earth Science and Engineering, published by CAFET-INNOVA Technical Society, India. Vol. 11, Issue 1, pp. 35-40 (2018).
- 28. S.Arya, T.Subramani, G.Vennila & D.Karunanidhi, "Health risks associated with fluoride intake from rural drinking water supply and inverse mass balance modeling to decipher hydrogeochemical processes in Vattamalaikarai River basin, South India", Environmental Geochemistry and Health, published by Springer. (2019).
- 29. P. Aravinthasamy, D.Karunanidhi, T.Subramani, B.Anand, P.D.Roy & K.Srinivasamoorthy, "Fluoride contamination in groundwater of the Shanmuganadhi River basin (south India) and its association with other chemical constituents using geographical information system and multivariate statist", Geochemistry, published by Elsevier . (2019).
- 30. D.Karunanidhi, P. Aravinthasamy, T.Subramani, P.D. Roy & K.Srinivasamoorthy, "Risk of Fluoride-Rich Groundwater on Human Health: Remediation Through Managed Aquifer Recharge in a Hard Rock Terrain, South India", Natural Resources Research, published by Springer. (2019).
- 31. P. Aravinthasamy, D.Karunanidhi, T.Subramani, K.Srinivasamoorthy & B.Anand, "Geochemical evaluation of fluoride contamination in groundwater from Shanmuganadhi River basin, South India: implication on human health", Environmental Geochemistry and Health, published by Springer. (2019).
- 32. G.Venkatesan & T.Subramani, "Reduction of hexavalent chromium to trivalent chromium from tannery effluent using bacterial biomass", Indian Journal of Geo-Marine Sciences, published by CSIR. Vol. 48, Issue 4, pp. 528-534 (2019).
- 33. D. Karunanidhi, P. Aravinthasamy, T. Subramani, Jianhua Wu & K. Srinivasamoorthy, "Potential health risk assessment for fluoride and nitrate contamination in hard rock aquifers of Shanmuganadhi River basin, South India ", Human and Ecological Risk Assessment, published by Taylor & Francis. (2019).
- 34. B. Anand, D. Karunanidhi, T. Subramani, K. Srinivasamoorthy & M. Suresh, "Long term trend detection and spatiotemporal analysis of groundwater levels using GIS techniques in Lower

- Bhavani River basin, Tamil Nadu, India", Environment, Development and Sustainability, published by Springer. (2019).
- 35. D. Karunanidhi, B. Anand, T. Subramani & K.Srinivasamoorthy, "Rainfall surface runoff estimation for the Lower Bhavani basin in south India using SCS CN model and geospatial techniques", Environmental Earth Sciences, published by Springer. Vol. 79, Issue 335, pp. 1-19 (2020).
- 36. G.Venkatesan, T.Subramani, U.Sathya & D.Karunanidhi, "Evaluation of chromium in vegetables and groundwater aptness for crops from an industrial (leather tanning) sector of South India", Environmental Geochemistry and Health, Dr. T.SUBRAMANI Professor, Department of Geology
- 37. D.Karunanidhi, P. Aravinthasamy, M.Deepali, T.Subramani & Emmanuel Daanoba Sunkari, "Appraisal of subsurface hydrogeochemical processes in a geologically heterogeneous semi-arid region of south India based on mass transfer and fuzzy comprehensive modeling", Environmental Geochemistry and Health, published by Springer. (2020).
- 38. D.Karunanidhi, P. Aravinthasamy, T.Subramani, K.G. Balakumar & N. Subhash Chandran, "Health threats for the inhabitants of a textile hub (Tiruppur region) in southern India due to multipath entry of fluoride ions from groundwater", Ecotoxicology and Environmental Safety, published by Elsevier . (2020).
- 39. D. Karunanidhi, P. Aravinthasamy, M. Deepali, T. Subramani, Barbara C. Bellows & Peiyue Li, "Groundwater quality evolution based on geochemical modeling and aptness testing for ingestion using entropy water quality and total hazard indexes in an urban-industrial area (Tiruppur) of Southern In", Environmental Science and Pollution Research, published by Springer. (2020).
- 40. G. Venkatesan, T. Subramani, D. Karunanidhi, U. Sathya & Peiyue Li, "Impact of precipitation disparity on groundwater fluctuation in a semi-arid region (Vellore district) of southern India using geospatial techniques", Environmental Science and Pollution Research, published by Springer. (2020).
- 41. P. Kalpana, S. Parthiban, P. Gopinathan, T. Subramani, P. D. Roy, S. Gautam & J. Brema, "Spatio-temporal estimation of rainfall patterns in north and northwestern states of India between 1901 and 2015: change point detections and trend assessments", Arabian Journal of Geosciences, published by Springer. (2020).
- 42. D. Karunanidhi, P. Aravinthasamy, T. Subramani & G.Muthusankar, "Revealing drinking water quality issues and possible health risks based on water quality index (WQI) method in the Shanmuganadhi River basin of South India", Environmental Geochemistry and Health, published by Springer. (2020).
- 43. B.Anand, D.Karunanidhi & T.Subramani, "Promoting artificial recharge to enhance groundwater potential in the lower Bhavani River basin of South India using geospatial techniques", Environmental Science and Pollution Research, published by Springer. (2020).
- 44. G.Venkatean, T.Subramani, U.Sathya & P.D.Roy, "Seasonal changes in groundwater composition in an industrial center of south India and quality evaluation for consumption and health risk using geospatial methods", Geochemistry, published by Elsevier. (2020).
- 45. D.Karunanidhi, P. Aravinthasamy, P.D.Roy, R.M.Praveenkumar, K.Prakash, S.Selvapraveen, A.Thowbeekrahman, T.Subramani & K.Srinivasamoorthy, " Evaluation of non-carcinogenic risks due to fluoride and nitrate contaminations in a groundwater of an urban part (Coimbatore

- region) of south India", Environmental Monitoring and Assessment, published by Springer. (2020).
- 46. D.Karunanidhi, P. Aravinthasamy, M.Deepali, T.Subramani & P.D. Roy, "The effects of geochemical processes on groundwater chemistry and the health risks associated with fluoride intake in a semi-arid region of South India", RSC Advances, published by Royal Society of Chemistry. (2020). page 9 / 28 Dr. T.SUBRAMANI Professor, Department of Geology
- 47. V.Satheeskumar, T.Subramani, C.Lakshumanan, P.D.Roy, D.Karunanidhi, "Groundwater chemistry and demarcation of seawater intrusion zones in the Thamirabarani delta of south India based on geochemical signatures", Environmental Geochemistry and Health, published by Springer. (2020).
- 48. S.Arya, T.Subramani & D.Karunanidhi, "Delineation of groundwater potential zones and recommendation of artificial recharge structures for augmentation of groundwater resources in Vattamalaikarai Basin, South India", Environmental Earth Sciences, published by Springer. (2020).
- 49. D.Karunanidhi, P. Aravinthasamy, Deepak Kumar, T.Subramani & P.D. Roy, "Sobol sensitivity approach for the appraisal of geomedical health risks associated with oral intake and dermal pathways of groundwater fluoride in a semi-arid region of south India", Ecotoxicology and Environmental Safety, published by Elsevier . (2020).
- 50. A.Palanisamy, D. Karunanidhi, T. Subramani & P.D.Roy, "Demarcation of groundwater quality domains using GIS for best agricultural practices in the drought-prone Shanmuganadhi River basin of South India", Environmental Science and Pollution Research, published by Springer. (2020).
- 51. S.Arya, T.Subramani, G.Vennila & P.D.Roy, "Groundwater vulnerability to pollution in the semiarid Vattamalaikarai River Basin of south India thorough DRASTIC index evaluation", Geochemistry, published by Elsevier. (2020).
- 52. Y Ji, J Wu, Y Wang, V. Elumalai, T. Subramani, "Seasonal Variation of Drinking Water Quality and Human Health Risk Assessment in Hancheng City of Guanzhong Plain, China", Exposure and Health, published by Springer. (2020).
- 53. P. Aravinthasamy, D. Karunanidhi, N. Subba Rao, T. Subramani & K.Srinivasamoorthy, "Irrigation risk assessment of groundwater in a non-perennial river basin of South India: implication from irrigation water quality index (IWQI) and geographical information system (GIS) approaches", Arabian Journal of Geosciences, published by Springer. (2020).