



Dr. VENKATRAMANAN. S

Assistant Professor

PG and Research Department of Geology,
National College (Autonomous),
Tiruchirappalli - 620001, Tamil Nadu, India
Mobile: +91-90032 52707, +91-96004 45053
Email: venkatramanan@nct.ac.in,
venkatramanansenapathi@gmail.com



EDUCATION

2013-2017

Postdoctoral Fellow (Postdoc)

Department of Earth and Environmental Sciences, Pukyong National University Busan, South Korea
Mentor: Prof. Sang Yong Chung

2008-2013

Doctoral of Philosophy (PhD)

Applied Geology, Department of Earth Sciences, Annamalai University, Tamil Nadu, India
Thesis title: "Evaluation of Sedimentological and Environmental Geochemical Characterization of Sediments in Tirumalairajan river estuary and adjoining coastal track, Tamil Nadu, East coast of India.", Mentor: Prof. Ramkumar T

2006-2008

Master of Philosophy (MPhil)

Applied Geology, Department of Earth Sciences, Annamalai University, Tamil Nadu, India

2004-2006

Master of Science (MSc)

Applied Geology, Department of Earth Sciences, Annamalai University, Tamil Nadu, India

2008-2011

Master of Science (MSc)

Geoinformatics, Department of Earth Sciences, Annamalai University, Tamil Nadu, India

2006-2007

Postgraduate Diploma (PGDPE)

Petroleum Exploration, Department of Earth Sciences, Annamalai University, Tamil Nadu, India

EXPERIENCE

2024 - Present

Assistant Professor

PG and Research Department of Geology,
National College (Autonomous)
Tiruchirappalli, Tamil Nadu, India

2018 - 2023

Assistant Professor (Tenure track)

Department of Geology and Disaster Management, Alagappa University, Karaikudi 630002,
Tamil Nadu, India.

2013 - 2017

Postdoctoral Fellow

Department of Earth and Environmental Sciences, Pukyong National University Busan, South
Korea.

2016 - 2020

Research Faculty (Visiting)

Faculty of Applied Sciences, Ton Duc Thang University, Ho Chi Minh city, Vietnam

2013

Assistant Professor

Department of Civil Engineering, Tagore Institute of Engineering and Technology, Attur, Salem,
Tamil Nadu, India

2007-2012

Junior Research Fellow

Department of Earth Sciences, Annamalai University, Annamalai Nagar, Chidambaram, Tamil
Nadu, India.

2006-2007

Technical Assistant

Centre of Advanced Study in Marine Biology (CAS), Annamalai University, Annamalai Nagar,
Chidambaram, Tamil Nadu, India

PERSONAL DETAILS

Date of Birth - 18/05/1984

Age 39, Sex - Male

Marital Status - Married

Nationality - Indian

Religion - Hindu

Languages Known - English and Tamil

Mobile: +91-90032 52707, +91-96004 45053

Communication Address: No.16, Jaya Nagar Extension, 2nd Main Road
Karumandapam, Tiruchirappalli 620001, Tamil Nadu,
India.

Permeant Address: Plot No. 118, Sri Krishna Nivas,
Chellappa Nagar 2nd Street, Kalanivasal
Karaikudi – 630002.

Email: venkatramanan@nct.ac.in, venkatramanansenapathi@gmail.com

PUBLICATIONS

Google scholar ID – <https://scholar.google.co.kr/citations?user=POJ4yy8AAAAJ&hl=en>

Scopus ID – <https://www.scopus.com/authid/detail.uri?authorId=35147076400>

ORCID ID – <https://orcid.org/0000-0002-1698-1101>

Web of Science – <https://www.webofscience.com/wos/author/record/K-8125-2013>

Research Gate – <https://www.researchgate.net/profile/Venkatramanan-Senapathi>

Loop – <https://loop.frontiersin.org/people/91992/overview>

Academia - <https://alagappauniversity.academia.edu/VenkatramananSenapathi>

Journals

2011

- ❖ **Venkatramanan. S**, T. Ramkumar, I. Anithamary, G. Ramesh (2011). Variations in texture of beach sediments movement in the vicinity of Tirumalairajanar river mouth of India. *International Journal of Sediment Research*, Elsevier, ISSN: 1001-6279, Vol.26 (4), pp.460-470, IF-3.259 (SCIE).
- ❖ Anithamary I, Ramkumar T, **Venkatramanan S** (2011). Grain size characteristics of the Coleroon estuary sediments, Tamilnadu, east coast of India, *Carpathian Journal Earth and Environmental Sciences*, ISSN: 1842-4090, Vol.6(2), pp.151-157. IF-1.316 (SCIE).

2012

- ❖ **Venkatramanan. S**, T. Ramkumar, I. Anitha Mary, (2012). A statistical approach on Hydrogeochemistry of groundwater in Muthupet coastal region, Tamil Nādu, India. *Carpathian Journal Earth and Environmental Sciences*, ISSN: 1842-4090, Vol.7(1), pp.47-54. IF-1.316 (SCIE).
- ❖ **Venkatramanan. S**, T. Ramkumar, I. Anitha Mary, (2012). Sediment dynamic process of Tirumalairajan estuary, east coast of India. *Carpathian Journal Earth and Environmental Sciences*, ISSN: 1842-4090, Vol.7(2), pp.161-169. IF-1.316 (SCIE).
- ❖ Anithamary. I, Ramkumar T, **Venkatramanan S**, (2012). Application of Statistical analysis for the Hydrogeochemistry of saline groundwater in Kodiakarai, Tamilnadu, India. *Journal of Coastal Research*, ISSN: 0749-0208, Vol.28(1A), pp.89-98. IF-1.110 (SCI).
- ❖ Anithamary. I, Ramkumar T, **Venkatramanan S**, (2012). Distribution and accumulation of metals in the surface sediments of Coleroon river estuary, East coast of India. *Bulletin of Environmental Contamination and Toxicology*, Springer, ISSN: 0007-4861, 88(3), pp.413-417, DOI: 10.1007/s00128-011-0504-8, IF-2.807 (SCI).

2013

- ❖ **Venkatramanan S**, S.Y. Chung, T. Ramkumar, G. Gnanachandrasamy, S. Vasudevan (2013). A multivariate statistical approach on physicochemical characteristics of groundwater in and around Nagapattinam district, Cauvery deltaic region of Tamil Nadu, India. *Earth Sciences Research Journal*, ISSN: 1794-6190, Vol.17(2), pp.97-103, IF- 0.302 (SCIE).
- ❖ **Venkatramanan. S**, T. Ramkumar, I. Anithamary. M.P. Jonathan (2013). Speciation of selected Heavy Metals geochemistry in surface sediments from Tirumalairajan river estuary, east coast of India. *Environmental Monitoring and Assessment*, Springer, ISSN: 0167-6369, Vol.185(8), pp.6563-6578, DOI: 10.1007/s10661-012-3047-5, IF-3.307 (SCIE).
- ❖ Bagyaraj. M, Ramkumar. T, **Venkatramanan. S***, Gurugnanam. B (2013). Application of remote sensing and GIS analysis for identifying groundwater potential zone in parts of Kodaikanal Taluk, South India. *Frontiers of Earth Science*, Springer, ISSN: 2095-0195, Vol.7(1), pp.65-75, DOI: 10.1007/s11707-012-0347-6, IF-2.273 (SCIE).
- ❖ **Venkatramanan. S**, T. Ramkumar, I. Anithamary. (2013). Distribution of grain size, clay mineralogy and organic matter of surface sediments from Tirumalairajanar estuary, Tamilnadu, east coast of India. *Arabian*

Journal of Geosciences, Springer, ISSN: 1866-7511, Vol.6(5), pp.1371-1380, DOI: 10.1007/s12517-011-0423-3. IF-1.827 (SCIE).

- ❖ **Venkatramanan, S.**, T. Ramkumar, I. Anithamary. (2013). Morphological characteristics of Tirumalairajan river, east coast of India – a GIS Approach. Arabian Journal of Geosciences, Springer, ISSN: 1866-7511, Vol.6(6), pp.1871-1881, DOI: 10.1007/s12517-011-0492-3. IF-1.827 (SCIE).
- ❖ Ramkumar T, **Venkatramanan S***, I. Anithamary, S.M. Syed Ibrahim. (2013). Evaluation of Hydrogeochemical parameters and quality assessment of the groundwater in Kottur block, Tiruvarur district, Tamilnadu, India. Arabian Journal of Geosciences, Springer, ISSN: 1866-7511, Vol.6(1), pp.101-108, DOI: 10.1007/s12517-011-0327-2. IF-1.827 (SCIE).

2014

- ❖ **S. Venkatramanan**, S.Y. Chung, T. Ramkumar, G. Gnanachandrasamy, S. Vasudevan, S.Y. Lee (2014). Application of GIS and hydrogeochemistry of groundwater pollution status of Nagapattinam district of Tamil Nadu, India. Environmental Earth Sciences, Springer, ISSN:1866-6280, DOI:10.1007/s12665-014-3728-1. Vol.73(8), pp.4429-4442. IF-3.119 (SCI).
- ❖ **S. Venkatramanan**, S.Y. Chung, T.H. Kim, M.V. Prasanna, S.Y. Hamm (2014). Assessment and distribution of metals contamination in groundwater: a case study of Busan city, Korea, Exposure and Health, Springer, ISSN: 1876-1658, DOI: 10.1007/s12403-014-0142-6. Vol.7(2), pp.219-225, IF- 8.422 (SCIE).
- ❖ **S. Venkatramanan**, S.Y. Chung, T. Ramkumar, N. Park (2014). Grain size trend and hydrodynamic condition of Tirumalairajan River estuary, east coast of India, Oceanology, Springer, ISSN: 0001-4370, Vol.54(4), pp.532-540, DOI: 10.1134/S0001437014040134, IF-0.942 (SCI).
- ❖ S.Y. Chung, **S. Venkatramanan***, T.H. Kim, D.S. Kim, T. Ramkumar (2014). Influences of hydrogeochemical processes and assessment of suitability for groundwater uses in Busan city, Korea. Environment, Development and Sustainability, Springer, ISSN: 1387-585X, DOI: 10.1007/s10668-014-9552-7, Vol.17(3), pp.423-441, IF-4.080 (SCIE).
- ❖ S. Veerasingam, R. Venkatachalapathy, N. Basavaiah, T. Ramkumar, **S. Venkatramanan**, K. Deenadayalan. (2014). Identification and characterization of tsunami deposits off southeast coast of India from the 2004 Indian Ocean tsunami: Rock magnetic and geochemical approach. Journal of Earth System Science, Springer, ISSN: 0253-4126, Vol.123(4), pp.905-921. IF-1.912 (SCIE).
- ❖ G. Gnanachandrasamy, T. Ramkumar, **S. Venkatramanan**, S.Y. Chung, S. Vasudevan, M. Bagyaraj (2014). Accessing Groundwater Quality in Lower Part of Nagapattinam District, Southern India – Using Hydrogeochemistry and GIS Interpolation Techniques. Applied Water Science, Springer, ISSN: 2190-5495, DOI: 10.1007/s13201-014-0172-z. Vol.5(1), pp.39-55. IF-5.411 (SCIE).
- ❖ **S. Venkatramanan**, S.Y. Chung, S.Y. Lee, N. Park (2014). Assessment of river water quality via environmental multivariate statistical tools and water quality index: a case study of Nakdong River Basin, Korea. Carpathian Journal Earth and Environmental Sciences, ISSN: 1842-4090, Vol.9(2), pp.125-132. IF- 1.316 (SCIE).
- ❖ **Venkatramanan. S**, T. Ramkumar, I. Anithamary. S. Vasudevan (2014). Heavy metal distribution in surface sediments of the Tirumalairajan river estuary and the surrounding coastal area, east coast of India. Arabian Journal of Geosciences, ISSN: 1866-7511, Springer, Vol.7(1), pp.123-130, DOI: 10.1007/s12517-012-0734-z, IF-1.827 (SCIE).

2015

- ❖ S. Selvam, Farooq A. Dar, N.S. Magesh, C.Singaraja, **S. Venkatramanan**, S.Y. Chung (2015) Application of remote sensing and GIS for delineating groundwater recharge potential zones of Kovilpatti Municipality, Tamil Nadu using IF technique. Earth Science Informatics. Springer, ISSN: 1865-0473, Vol.9(2), pp.137-150. DOI: 10.1007/s12145-015-0242-2. IF-2.705 (SCIE).
- ❖ **S. Venkatramanan**, S.Y. Chung, T. Ramkumar, S. Selvam (2015) Environmental monitoring and assessment of heavy metals in surface sediments at Coleroon River Estuary in Tamil Nadu, India. Environmental Monitoring and Assessment, Springer, ISSN: 0167-6369, Vol.187(505), pp.1-16, DOI: 10.1007/s10661-015-4709-x, IF-3.307 (SCIE).
- ❖ M. Rafiqul Islam, N.G. Das, Prabal Barua, M. Belal Hossain, **S. Venkatramanan**, S.Y. Chung (2015) Environmental assessment of water and soil contamination in Rajakhali Canal of Karnaphuli River (Bangladesh) impacted by anthropogenic influences – a preliminary case study. Applied Water Science, Springer, ISSN: 2190-5495, Vol.7, pp.997-1010, DOI: 10.1007/s13201-015-0310-2. IF-5.411 (SCIE).
- ❖ S. Selvam, A. Antony Ravindran, **S. Venkatramanan**, C. Singaraja (2015). Assessment of heavy metal and bacterial pollution in coastal aquifers from SIPCOT industrial zones, Gulf of Mannar, South Coast of Tamil Nadu, India. Applied Water Science, Springer, ISSN: 2190-5495, Vol.7, pp.897-913, DOI:

10.1007/s13201-015-0301-3. IF-5.411 (SCIE).

- ❖ S. Selvam, **S. Venkatramanan**, C. Singaraja, (2015). A GIS based assessment of water quality pollution indices for heavy metal contamination in Tuticorin Corporation, Tamilnadu, India. *Arabian Journal of Geosciences*, Springer, ISSN: 1866-7511, Vol.8(12), pp. 10611-10623, DOI: 10.1007/s12517-015-1968-3. IF-1.827 (SCIE).
- ❖ **S. Venkatramanan**, S.Y.Chung, T.Ramkumar, R. Rajesh, G. Gnanachandrasamy (2015). Assessment of groundwater quality using GIS and CCME WQI techniques: a case study of Thiruthuraipoondi city in Cauvery deltaic region, Tamil Nadu, India. *Desalination and Water Treatment*, Taylor & Francis, ISSN: 1944-3994, Vol.57(26), pp.12058-12073, DOI:10.1080/19443994.2015.1048740. IF- 1.383 (SCIE).
- ❖ **S. Venkatramanan**, S.Y. Chung, R. Rajesh, S.Y. Lee, T. Ramkumar, M.V. Prasanna (2015). Comprehensive studies of hydrogeochemical processes and quality status of groundwater with tools of cluster, grouping analysis, and fuzzy set method using GIS platform: a case study of Dalcheon in Ulsan City, Korea. *Environmental Science and Pollution Research*, Springer, ISSN: 0944-1344, DOI: 10.1007/s11356-015-4290-4, Vol.22, pp.11209-11223, IF-5.190 (SCI).
- ❖ **S. Venkatramanan**, S.Y. Chung, T. Ramkumar, G. Gnanachandrasamy, T.H. Kim (2015). Evaluation of geochemical behavior and heavy metal distribution of sediments: The case study of the Tirumalairajan river estuary, southeast coast of India. *International Journal of Sediment Research*, Elsevier, ISSN: 1001-6279, DOI.org/10.1016/S1001-6279(15)60003-8, Vol.30(1), pp.28-38, IF-3.259 (SCIE).
- ❖ S.Y. Chung, **S. Venkatramanan***, N. Park, R. Rajesh, T. Ramkumar, B.W. Kim (2015). An assessment of selected hydrochemical parameter trend of the Nakdong River water in South Korea, using time series analyses and PCA. *Environmental Monitoring and Assessment*, Springer, ISSN: 0167-6369, DOI: 10.1007/s10661-014-4192-9, Vol.187(1), pp.1-13, IF-3.307 (SCIE).

2016

- ❖ **S. Venkatramanan**, SY. Chung, T.H. Kim, B.W. Kim, S. Selvam (2016) Geostatistical techniques to evaluate groundwater contamination and its sources in Miryang city, Korea. *Environmental Earth Sciences*, Springer, ISSN: 1866-6280, DOI: 10.1007/s12665-016-5813-0, Vol.75 (2), p.994, IF – 3.119 (SCI).
- ❖ G. Gnanachandrasamy, T. Ramkumar, **S. Venkatramanan**, SY. Chung, S. Vasudevan (2016) Identification of saline water intrusion in part of Cauvery Deltaic region, Tamilnadu, Southern India – using GIS and VES methods, *Marine Geophysical Research*, Springer ISSN: 0025-3235, DOI: 10.1007/s11001-016-9271-6, Vol.37, pp.113-126, IF-2.500 (SCI).
- ❖ S. Selvam, **S. Venkatramanan**, S.Y. Chung, C. Singaraja (2016) Identification of groundwater contamination sources in Dindugal district of Tamil Nadu, India using GIS and multivariate statistical analyses, *Arabian Journal of Geosciences*, Springer, ISSN: 1866-7511, DOI: 10.1007/s12517-016-2417-7, Vol.9, p.407, IF-1.827 (SCIE).
- ❖ S.Y. Chung, **S. Venkatramanan***, N. Park, T. Ramkumar, S.B. Sujitha and M.P. Jonathan (2016) Evaluation of physico-chemical parameters in water and total heavy metals in sediments at Nakdong River Basin, Korea. *Environmental Earth Sciences*, Springer, ISSN: 1866-6280, Vol.75(1), p.50. DOI: 10.1007/s12665-015-4836-2, IF – 3.119 (SCI).

2017

- ❖ M.C. Sashikkumar, S. Selvam, N. Karthikeyan, J. Ramanamurthy, **S. Venkatramanan***, C. Singaraja (2017) Remote sensing for recognition and monitoring of vegetation affected by soil properties. *Journal of Geological Society of India*, Springer, ISSN: 0974-6889, DOI: 10.1007/s12594-017-0759-8, Vol.90 (5), p.609-615, IF – 1.466 (SCIE).
- ❖ **S. Venkatramanan**, SY. Chung, S. Selvam, SY. Lee, EE. Hussam (2017) Factors controlling groundwater quality in the Yeonjegu district of Busan city, Korea, using the hydrogeochemical processes and fuzzy GIS. *Environmental Science and Pollution Research*. Springer, ISSN: 0944-1344, DOI: 10.1007/s11356-017-9990-5, Vol. 24, p.23679–23693, IF – 5.190 (SCI).
- ❖ **S. Venkatramanan**, SY. Chung, S. Selvam, JH. Son, YJ. Kim (2017) Interrelationship between geochemical elements of sediment and groundwater at Samrak Park Delta of Nakdong River Basin in Korea: multivariate statistical analyses and artificial neural network approaches. *Environmental Earth Sciences*. Springer, ISSN: 1866-6280, DOI: 10.1007/s12665-017-6795-2, Vol.76, p.456, IF – 3.119 (SCI).
- ❖ S. Selvam, **S. Venkatramanan***, P. Sivasubramanian, SY. Chung, C. Singaraja (2017) Geochemical characteristics and evaluation of minor and trace elements pollution in groundwater of Tuticorin city, Tamil Nadu, India using geospatial techniques, *Journal of Geological Society of India*, Springer, ISSN: 0974-6889, DOI: 10.1007/s12594-017-0664-1, Vol.90(1), p.62-68, IF – 1.466 (SCIE).

2018

- ❖ SY. Chung, **S. Venkatramanan***, KH. Park, JH. Son, S. Selvam. (2018) Source and remediation for heavy metals of soils at an iron mine of Ulsan City, Korea. *Arabian Journal of Geosciences*, Springer, ISSN: 1866-7511, DOI.org/10.1007/s12517-018-4141-y, 11:769. IF-1.827 (SCIE).
- ❖ G. Gnanachandrasamy, Yongzhang Zhou, M. Bagyaraj, **S. Venkatramanan**, T. Ramkumar, Shugong Wang. (2018) Remote Sensing and GIS Based Groundwater Potential Zone Mapping in Ariyalur District, Tamil Nadu. *Journal of Geological Society of India*, Springer, ISSN: 0974-6889, Vol.92, October 2018, p.484-490. IF – 1.466 (SCIE).
- ❖ S. Selvam, C. Singaraja, **S. Venkatramanan***, S.Y. Chung. (2018) Geochemical Appraisal of Groundwater Quality in Ottapidaram Taluk, Thoothukudi District, Tamil Nadu using Graphical and Numerical Method. *Journal of Geological Society of India*, Springer. Springer, ISSN: 0974-6889, Vol. 92, p.313-320, IF – 1.466 (SCIE).
- ❖ SY. Chung, **S. Venkatramanan***, S. Selvam, TH. Kim. (2018) Time series analyses of hydrological parameter variations and their correlations at a coastal area in Busan, Korea. *Hydrogeology Journal*, Springer, ISSN: 1435-0157, DOI: 10.1007/s10040-018-1739-9. Vol.26(6), pp.1875-1885, IF – 3.151 (SCI).
- ❖ **S. Venkatramanan**, SY. Chung, T. Ramkumar, S. Selvam. (2018) Ecological risk assessment of selected heavy metals in the surface sediments of three estuaries in the southeastern coast of India. *Environmental Earth Sciences*, Springer, ISSN: 1866-6280, DOI:10.1007/s12665-018-7294-9, Vol.77: p.116. IF – 3.119 (SCI).

2019

- ❖ Banajarani Panda, S . Chidambaram, K. Tirumalesh, N. Ganesh, C. Thivya, R. Thilagavathi, **S. Venkatramanan***, M. V. Prasanna, N. Devaraj, A. L. Ramanathan. (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*, Springer, ISSN: 1573-1421, Vol.25, p.137–159, DOI.org/10.1007/s10498-019-09357-8, IF – 1.813 (SCIE).
- ❖ 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*, Springer, ISSN: 0944-1344, DOI.org/10.1007/s11356-019-05962-w, IF – 5.190 (SCI).
- ❖ Md. Simul Bhuyan, Muhammad Abu Bakar, Md. Rashed-Un-Nabi, **Venkatramanan Senapathi***, Sang Yong Chung, Md. Shafqul Islam (2019) Monitoring and assessment of heavy metal contamination in surface water and sediment of the Old Brahmaputra River, Bangladesh. *Applied Water Science*, Springer, ISSN: 2190-5495, Vol.9, p.125. DOI.org/10.1007/s13201-019-1004-y. IF-5.411 (SCI).
- ❖ Reza Rezaei, Arman Jafarian, Frank Mattern, Uma Kant Shukla, **Venkatramanan Senapathi**, Michaela Bernecker (2019) The sedimentology and development of a modern sandspit (Miankaleh Peninsula) and a lacustrine lagoon (Gorgan Bay), Caspian Sea, Iran. *Marine Geology*, Elsevier, ISSN: 0025-3227, Vol.415 p.105974. DOI: .org/10.1016/j.margeo.2019.105974. IF – 3.627 (SCI).

2020

- ❖ U. Vasudevan, Rakesh Roshan Gantayat, S.Chidambaram, MV.Prasanna, **S. Venkatramanan***, N. Devaraj, M. Nepolian, N. Ganesh (2020) Microbial contamination and its associations with major ions in shallow groundwater along coastal Tamil Nadu. *Environmental Geochemistry and Health*, Springer, doi.org/10.1007/s10653-020-00712-1, ISSN: 0269-4042, IF-4.898, (SCIE).
- ❖ S.Selvam, P.Muthukumara, **S.Venkatramanan**, P.D.Roy, K.Manikanda Bharath, K.Jesuraja (2020) SARS-CoV-2 pandemic lockdown: Effects on air quality in the industrialized Gujarat state of India. *Science of the Total Environment*, Elsevier, <https://doi.org/10.1016/j.scitotenv.2020.140391>, ISSN: 1879-1026, 737, 139848. IF-10.573 (SCI).
- ❖ S.Selvam, K.Jesuraja, **S.Venkatramanan***, S.Y.Chung, P.D.Roy, P.Muthukumara, Manish Kumar (2020) Imprints of pandemic lockdown on subsurface water quality in the coastal industrial city of Tuticorin, South India: A revival perspective. *Science of the Total Environment*, Elsevier, <https://doi.org/10.1016/j.scitotenv.2020.139848>, ISSN: 1879-1026, 738, 139848. IF-10.573 (SCI).
- ❖ Sruthy Sajeev, Selvam Sekar, Binoj Kumar, **Venkatramanan Senapathi***, Sang Yong Chung, Gnanachandrasamy Gopalakrishnan (2020) Variations of water quality deterioration based on GIS techniques in surface and groundwater resources in and around Vembanad Lake, Kerala, India. *Geochemistry*, Elsevier, <https://doi.org/10.1016/j.chemer.2020.125626>. ISSN: 0009-2819, IF- 4.127 (SCIE).
- ❖ S. Selvam, **S. Venkatramanan***, M.B. Hossain, S.Y. Chung, R. Khatibi, A.A. Nadiri (2020) A study of health risk from accumulation of metals in commercial edible fish species at Tuticorin coasts of southern

India, Estuarine, Coastal and Shelf Science 245 (2020) 106929, ISSN: 0272-7714, doi.org/10.1016/j.ecss.2020.106929, IF-3.229 (SCI).

- ❖ Sivakarun N, Udayaganeshan P, Chidambaram S, **Venkatramanan S***, Prasanna M.V, Pradeep K, Banajarani Panda (2020) Factors determining the hydrogeochemical processes occurring in shallow groundwater of coastal alluvial aquifer, India, Geochemistry, Elsevier, https://doi.org/10.1016/j.chemer.2020.125623. ISSN: 0009-2819, IF- 4.127 (SCIE).
- ❖ Chung SY, Rajesh R, **Venkatramanan S***, Selvam S, Paramasivam CR, Oh YY, Hussam EE (2020) Processes and characteristics of hydrogeochemical variations between unconfined and confined aquifer systems: a case study of the Nakdong River Basin in Busan City, Korea, Environmental Science and Pollution Research, Springer, https://doi.org/10.1007/s11356-019-07451-6, ISSN: 0944-1344, IF – 5.190 (SCI).
- ❖ Hussam Eldin Elzain, Osman Abdullatif, **Venkatramanan Senapathi***, Sang Yong Chung, Chidambaram Sabarathinam, Selvam Sekar (2020). Lithofacies modeling of Late Jurassic in upper Ulayyah reservoir unit at central Saudi Arabia with inference of reservoir characterization. Journal of Petroleum Science and Engineering, Elsevier, ISSN: 0920-4105, doi.org/10.1016/j.petrol.2019.106664, 185, p.10664, IF – 4.346 (SCI).
- ❖ S. Selvam, A. Manisha, **S. Venkatramanan***, S.Y. Chung, C.R. Paramasivam, C. Singaraja. (2020). Microplastic presence in commercial marine sea salts: A baseline study along Tuticorin Coastal salt pan stations, Gulf of Mannar, South India. Marine Pollution Bulletin, Elsevier, ISSN: 0025-326X, Vol. 150, p.110675, doi.org/10.1016/j.marpolbul.2019.110675, IF – 7.001 (SCI).

2021

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- ❖ M.V. Prasanna, S. Chidambaram, R. Thilagavathi, C. Thivya, **S. Venkatramanan**, N. Murali Krishnan. (2019). A Statistical Approach to Identify the Temporal and Spatial Variations in the Geochemical Process of a Coastal Aquifer, South East Coast of India. GIS and Geostatistical Techniques for Groundwater Science.

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AWARDS AND RECOGNITIONS

- ❖ Scientific committee member – Euro-Mediterranean Conference for Environmental Integration (EMCEI-22), held in Sousse, Tunisia, on 01–04 November 2022. - <http://www.emcei.net/>
- ❖ Chairperson – International Seminar on Computational Environmental Earth Science, PG and Research Department of Geology, V.O. Chidambaram College, Tuticorin, India held on April 29 and 30, 2022.
- ❖ Excellent Reviewer, Publons, Web of Science – <https://publons.com/researcher/1742997/venkatramanan-senapathi/>
- ❖ World Scientific Index, 2022 <https://www.adscientificindex.com/scientist.php?id=420050>
- ❖ Scientific committee member – 3rd Conference of the Arabian Journal of Geosciences (CAJG), held in online, on 2–5 November 2020. (Track 2. Biogeochemistry, Geobiology, Geocology, Geoagronomy) - <https://www.cajg.org/2020/index.php?p=committees>
- ❖ Scientific committee member - 2nd Conference of the Arabian Journal of Geosciences (CAJG), held in Sousse, Tunisia on 25–28 November 2019.
- ❖ Best Poster Presentation Award – 2th Asian Regional Conference of International Association of Engineering Geology held in Jeju, Korea on 23-27 September, 2019.
- ❖ Best Poster Presentation Award – International Conference on Environmental Science and Resource Management (ICESRM) – 2019 by Mawlana Bhashani Science and Technology University, Santosh, Tangail, Bangladesh.
- ❖ Appreciation Award for outstanding contribution as a paper reviewer – 2018 by 11th Curtin University Technology, Science and Engineering International Conference, Sarawak, Malaysia.
- ❖ Young Researcher Award – Civil Engineering Research Institute for cold region, Sapporo, Japan, 2017.
- ❖ Best Paper Grant Award – Ton Duc Thang University, Ho Chi Minh, Vietnam, 2017.
- ❖ Best Presentation Award – International Scientific Research and Experimental Development 2017, World Academy of Science, Engineering and Technology (WASET), Bangkok, Thailand.
- ❖ Dr. APJ Abdul Kalam Award for Scientific Excellence – 2015 by Marina Research and Development, Chennai.
- ❖ Junior Research Fellowship by Department of Science and Technology (DST) – 2011-2012.
- ❖ Research Studentship by Annamalai University - 2010-2011.
- ❖ Junior Research Fellowship by Ministry of Earth Sciences (MoES) – 2007-2010.
- ❖ Committee member for the evaluation of thesis at Pukyong National University, Korea – 2015 -2016.

ROLE

Editor

- ❖ **Editor Board Member (Review Editor)** - <https://link.springer.com/journal/44289/editors>
- ❖ **Associate Editor** – Sustainable Environment, <https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=oaes21>
- ❖ **Academic Editor** – PeerJ Analytical Chemistry, <https://peerj.com/editors/?q=venkatramanan&type=editor&journal=achem>
- ❖ **Academic Editor** – PLOS Water, <https://journals.plos.org/water/s/editorial-board>
- ❖ **Academic Editor** – PLOS ONE, <https://journals.plos.org/plosone/static/editorial-board>
- ❖ **Academic Editor** – Scientifica - Toxicology, Hindawi-Wiley, <https://www.hindawi.com/journals/scientifica/editors/>
- ❖ **Academic Editor** – Journal of Environment and public health, Hindawi-Wiley, <https://www.hindawi.com/journals/jephe/editors/>
- ❖ **Academic Editor** – Geofluids, Hindawi-Wiley, <https://www.hindawi.com/journals/geofluids/editors/>.

- ❖ **Academic Editor** - Applied and Environmental Soil Science. Hindawi- Wiley, <https://www.hindawi.com/journals/aess/editors/>
- ❖ **Advisory Editor** – MethodsX, Elsevier. <https://www.journals.elsevier.com/methodsx/editorial-board/dr-venkatramanan-senapathi-phd>
- ❖ **Review Editor** – Frontiers in Environmental Science, Frontiers, <https://www.frontiersin.org/journals/environmental-science/editors>
- ❖ **Review Editor** – Frontiers in Water, Frontiers, <https://www.frontiersin.org/journals/water/sections/environmental-water-quality#editorial-board>
- ❖ **Leading Book Editing** - GIS and Geostatistical Techniques for Groundwater Science (2019), Elsevier, USA. ISBN: 9780128154137,doi.org/10.1016/C2017-0-02667-8P.1-389. (<https://www.sciencedirect.com/book/9780128154137/gis-and-geostatistical-techniques-for-groundwater-science>)
- ❖ **Leading Book Editing** - (2022), Groundwater contamination in Coastal aquifers (2022), Elsevier, USA, ISBN: 978- 0-12-824387-9,https://doi.org/10.1016/C2020-0-01861-X,P.1-308. (<https://www.sciencedirect.com/book/9780128243879/groundwater-contamination-in-coastal-aquifers#book-info>)
- ❖ **Editor** - (2024), Meso and Microplastic Risk Assessment in Marine Environments - <https://www.sciencedirect.com/book/9780323909808/meso-and-microplastic-risk-assessment-in-marine-environments>
- ❖ **Leading Guest Editor** - Insights into changes in redox-sensitive ingredients in mixed environments: sustainable tactics, Total Environment Research Themes- <https://www.sciencedirect.com/special-issue/10K75Q6KW5R>
- ❖ **Guest Associate Editor** - Assessment and Restoration of River Ecosystem Integrity, Frontiers in Environmental Science - <https://www.frontiersin.org/research-topics/37716/assessment-and-restoration-of-river-ecosystem-integrity>
- ❖ **Guest Associate Editor** - Interactions between Groundwater and Human Communities: Perspectives on the Resources, Environments, Threats and Sustainable Development, UK. Frontiers in Environmental Science, <https://www.frontiersin.org/research-topics/35349/interactions-between-groundwater-and-human-communities-perspectives-on-the-resources-environments-th>
- ❖ **Leading Guest Associate Editor** - Environmental Isotopes for Water Resource Management, UK. Frontiers in Water, <https://www.frontiersin.org/research-topics/36207/environmental-isotopes-for-water-resource-management/magazine>.
- ❖ **Leading Guest Editor** - Recent environmental geochemical trends in water and sediments – A frame work on OSPRC (Origin, Sources, Pathways, Receptors and Consequences), (2021) – Environmental Science and Pollution Research, IF- 3.056, Springer, ISSN: 1614-7499, SCI, Guest Editor, 28, P-18421–18422, <https://link.springer.com/journal/11356/volumes-and-issues/28-15>
- ❖ **Guest Editor** - Trends and techniques in addressing anthropogenic pollution in groundwater - health perspective – Ecotoxicology and Environmental Safety, Elsevier. ISSN:0147-6513, IF-6.291, <https://www.sciencedirect.com/journal/ecotoxicology-and-environmental-safety/special-issue/10MCNKG3JKT>
- ❖ **Leading Guest Editor** - Recent advanced techniques in water resources management, (2021) – Arabian Journal of Geosciences, Springer, Guest Editor, IF- 1.827, <https://link.springer.com/collections/ibgchbbhcci>, SCI.
- ❖ **Leading Guest Editor** - Microplastic accumulation in different environmental matrices with focus on implications, vulnerability and management perspective (2021) – Chemosphere, ISSN: 0045- 6535, IF- 7.086. Elsevier, <https://www.sciencedirect.com/journal/chemosphere/special-issue/10LN4Q7SSV8>
- ❖ **Guest Editor** - Drought and Groundwater Development (2021) – Water, MDPI, https://www.mdpi.com/journal/water/special_issues/drought_groundwater. ISSN 2073-4441, IF-3.103.
- ❖ **Guest Editor** - Special Issue -Physical and Chemical Approaches for Groundwater Contamination – Applied Sciences. MDPI, https://www.mdpi.com/journal/applsci/special_issues/Groundwater_Contamination, ISSN 2076-3417, IF- 2.679.

MEMBERS

- ❖ Academic Counselor in Indira Gandhi National Open University (IGNOU), New Delhi.

- ❖ Scientific committee member – Euro-Mediterranean Conference for Environmental Integration (EMCEI-22), held in Sousse, Tunisia, on 01–04 November 2022. - <https://emcei.net/2022/index.php?p=committees>.
- ❖ Scientific committee member - 2nd and 3rd Conference of the Arabian Journal of Geosciences (CAJG), held in Sousse, Tunisia on 25–28 November 2019 and 2-5 November 2020.
- ❖ Editorial Board Membership in Earth Sciences (EARTH) Journal, Science Publishing Group, New York, USA, March, 2018.
- ❖ World Academy of Science, Engineering and Technology (WASET), Connecticut, USA, August, 2017.
- ❖ Korean Society of Economic and Environmental Geology (KSEEG), Seoul, South Korea. April, 2016.
- ❖ Korean Society of Soil and Groundwater (KoSSGE), Seoul, South Korea. August, 2013.
- ❖ National Science and Technology (NTIS), Korea, (Scientist- Reg.No. 1133 5231). August, 2013.
- ❖ International Association of Sedimentologists (IAS), Krijgslaan 281, S8 - 9000 Gent – Belgium. April, 2011.
- ❖ International Association of Hydrological Sciences (IAHS-Membership No.11634). 75012 Paris, France. May, 2011.
- ❖ American Association of Petroleum Geologist, P. O. Box 979 Tulsa, OK 74101-0979 • USA. June, 2011.
- ❖ International Global Navigation Satellite Systems (IGNSS), Mitchelton Qld, 4053, Australia. July, 2011.
- ❖ Indian Society of Applied Geochemists (ISAG), Osmania University, Hyderabad (Membership No.2078). January, 2010.

RESEARCH PROJECTS

Role: Co-Investigator

- ❖ Feb 24, 2014 – May 9, 2014 - Saha-gu county of Busan city, Korea research organization project on “Investigation of groundwater in Sophora Japonica park at Gojeong-dong of Saha-gu district of Busan city, Korea”
- ❖ May 22, 2014 – Oct 22, 2014 – Yeonje-gu county of Busan city, Korea research organization project on “Investigation of groundwater status in Yeonjegu district, Busan city, Korea”

RESEARCH PROJECTS HANDLED

- ❖ Ministry of Land, Infrastructure and Transport of Korean entitled “Aquifer Storage and water quality enhancement of surface water” (Nakdong River Basin), Busan, South Korea”.
- ❖ National Research Foundation of Korea (NRF), Ministry of Education and Brain Korea 21 Plus (BK21+) Project entitled “Groundwater quality improvement using by DRASTIC and ANN model, Miryang, South Korea”
- ❖ Department of Science and Technology (DST), Government of India sponsored project on “Identification and mapping of sea water intrusion and sustainable management of groundwater resources in the coastal regions of Cauvery delta-Tamil Nadu”.
- ❖ Ministry of Earth Sciences (MoES). Government of India sponsored project on “Establishment of coastal Palaeomonsoonal conditions along major geomorphic entity of Tamilnadu coast using mineral magnetic and geochemical studies”.

RESEARCH SUPERVISION

- ❖ Name- B. Shalini Priya - – Supervised post graduate project work entitled - Flood hazard zone identification using remote sensing and GIS techniques in Chennai, Tamilnadu, India, MBA Disaster Management (2022).
- ❖ Name- B. Priyanka - – Supervised post graduate project work entitled - SARS cov2 phase I transmission and mutability linked with climatic variables, MBA Disaster Management (2022).
- ❖ Name – A. Gayathri – Supervised post graduate project work entitled “Erosion estimation in Kottaiappattinam beach, Pudukkottai district” – MBA Disaster Management (2020).
- ❖ Name – R. Ramya – Supervised post graduate project work entitled “Impact of unusual rain on groundnut crop in Keelathur village area, Pudukkottai district” – MBA Disaster Management (2020).
- ❖ Name – T. Elakkiya – Supervised post graduate project work entitled “Impact of prawn farming in Semankottai village in Pudukkottai district” – MBA Disaster Management (2020).
- ❖ Name – N. Ajithkumar - Co-supervised post graduate project work entitled “A Study on Exploration and Exploitation of Neyveli Lignite Deposits, Cuddalore District, India” – M.Sc Applied Geology (2019).
 - ❖ Name - K. Elyorbek - Co-supervised post graduate project work entitled “A study on the hydrogeological parameters of unconsolidated sediments at the Samrak Delta Area in Busan City. Korea” –

M.S Hydrogeology (2016).

- ❖ Name – Minji Kim - Co-supervised post graduate project work entitled “Determination of aquifer parameters for the alluvial aquifers at the Nakdong Delta Area in Busan City. Korea” – M.S Hydrogeology (2015).
- ❖ Name - M. Dinesh Kumar, M.Mubharak, B.Muralitharan, P.Vijayakumar Supervised under graduate project work entitled “Bituminous road using rubber waste” – BE Civil Engineering (2013).

SUBJECT TAUGHT

- ❖ Tagore Institute of Engineering and Technology (BE Civil Engineering) - Applied Geology, Air Pollution Management.
- ❖ Pukyong National University (MS Geology) - Fundamental of Hydrological Studies, Geostatistics, Environmental Geochemistry, GIS, Groundwater Modelling and Geochemical Analysis.
- ❖ Alagappa University (MSc and M.Phil Applied Geology) - Engineering, Mining and Environmental Geology, Hydrogeology, Introduction to Geology, Fuel Geology, Sedimentary Petrology, Research Methodology, Advanced in Geological Science.
- ❖ Alagappa University (MBA Disaster Management) – Basic Principles of Disaster Management, Ecosystems and Habitat, Remote Sensing and GIS, Disaster Response.

PATENT

Apparatus for concurrently determining hydraulic conductivity, dispersivity and effective porosity of soils method (co-inventor) - Korea Patent number 10-2016-0029314 - determining hydraulic conductivity, dispersivity and effective porosity of soils using the same apparatus, 2016.

VALUE ADDITIONS

Office Applications: Microsoft PowerPoint, Excel, Word, C++, Python.

Geological Software's: Arc GIS 10.10, Q-GIS, R program, Surface mapping system 12, Statistica 8, Strater 4, Grapher 10, Voxler 3, Rock works 14, Aquachem. 4.2, GSSTAT, SEDPLOT, SPSS 22, ERADAS 9.1, USGS Sediment classification, Origin 8, SigmaPlot 11, WATEQ4F, PHREEQC, WATCLAST program.

INSRUMENTS HANDLED

Wenner and Schlumberger Methods, Flame photometer (ELCO - CL 378), Digital Grain size analyzer (Retsch, AS.200), Laser particle size analyzer (Horiba LA 300), UV Spectrophotometer (UV-1800, Shimadzu), Van Veen Grab Sampler, Gravity Corer, Multiparameter photometer (Hanna, HI83099), Centrifuge (REMI R 24), GPS (GARMAN 76CSx), Sonlinst well logger (Model 107), Water analyzer, (Neomet ISTEK, 90i).

SHORT-TERM COURSES ATTENDED

- ❖ Participation in an online course on “Advances in Remote Sensing Techniques for Geological Applications” which was organized by the “Indian Institute of Remote Sensing”, Dehradun (13-24, March, 2023).
- ❖ Participation in an online course on “RS and GIS applications in Atmospheric and Oceanic Hazards” which was organized by the “Indian Institute of Remote Sensing”, Dehradun (27-03, Feb-Mar, 2023).
- ❖ Comprehensive Disaster Management training program at National Institute of Disaster Management, India (10-12, March, 2021)
- ❖ GIS training Program using QGIS organized at Department of Geography, School of Earth Sciences, Central university of Karanataka, India. sponsored by State institute of urban development (July 13 – August 2, 2020)
- ❖ Proxies for climate change studies workshop at Dept. of Marine sciences, Goa University, sponsored by MoES, Goa (8-13 Mar, 2010).
- ❖ Monitoring of river health using diatoms international workshop at Dept.of Geology, Periyar University, sponsored by DST, Salem (17-19 Feb, 2010).
- ❖ Program of Arc GIS ver.9.3 software training at Annamalai University, sponsored by ESRI, Chennai, (16-17 Mar, 2009).
- ❖ Geospatial technology concepts & applications training at Center for Remote sensing and Geoinformatics, Sathyabama University, Chennai, sponsored by Natural Resources data management system (NRDMS). (10-

21Dec, 2007).

- ❖ Program of Idrisi ver.14.05 software for advanced GIS & Digital image processing training at Aditi Infotech, Chennai, (3-4 Dec, 2007).

CONFERENCES/SEMINARS (Proceedings)

- ❖ Paramasivam CR, Kumaresan PR, S Saravanvel J, Jeyachandran N, **Venkatramanan S.** (2020) Urban Heat Island Identification through LST, NDVI and NDBI computation for Tiruchirappalli City, India, International Conference on Application of Geospatial Technologies in Natural Resource Management, ISBN: 978-93-86568-82-3, P.118-123.
- ❖ Prasanna, MV, Illiya Amalina Binti Ahmad Ramdzani, Nagarajan, R, Chidambaram, S, **Venkatramanan, S** (2019) Geoelectrical Investigation Along Miri Coast, East Malaysia: Evaluate the Vulnerability of Coastal Aquifer. IOP Conf. Series: Materials Science and Engineering 495(2019) 012042. ISSN: 1757-899X, DOI:10.1088/1757-899X/495/1/012042, Miri, Malaysia. P.1-11 (Scopus).
- ❖ Sang Yong Chung, Hussam Eldin Elzain, **Venkatramanan Senapathi**, Kye-Hun Park, Hae-Woo Kwon, In Kol Yoo, Hae Rim Oh (2018) Assessment of Groundwater Contamination Vulnerability in Miryang City, Korea using Advanced DRASTIC and fuzzy Techniques on the GIS Platform. J. Soil Groundwater Environ. Vol. 23(4), p. 26~41, 2018. <https://doi.org/10.7857/JSGE.2018.23.4.026>.
- ❖ **Venkatramanan Senapathi**, Sang Yong Chung, Selvam Sekar, Hussam Eldin Elzain (2017). Sources of heavy metals contamination in surface sediments at Nakdong River Basin, South Korea. 2017 Japan-Korea Joint Symposium, July 25, Sapporo, p.81-90.
- ❖ Sang Yong Chung, **Venkatramanan Senapathi**, Hussam Eldin Elzain (2017). Aquifer parameter of unconsolidated sediments at a coastal area in Busan City, Korea. 2017 Japan-Korea Joint Symposium, July 25, Sapporo, p.59-70.
- ❖ Sang Yong Chung, **Senapathi Venkatramanan**, Rajendran Rajesh, Elyorbek Khakimov (2015) Artificial recharge of fresh water into a sedimentary confined aquifer in the Nakdong River Delta Area, Korea. 2015 Japan-Korea Joint Symposium, October 20, Busan, p.3-14.
- ❖ **Senapathi Venkatramanan**, Sang Yong Chung, Thirunavukkarasu Ramkumar, Rajendran Rajesh, Gopalakrishnan Gnanachandrasamy (2015) Combined analyses of multivariate statistics and GIS for groundwater quality assessment at Nagapattinam district in Tamil Nadu, India. 2015 Japan-Korea Joint Symposium, October 20, Busan, p.113-124.
- ❖ Rajendran Rajesh, Sang Yong Chung, **Senapathi Venkatramanan** (2015) Application of Water Quality Index to assess groundwater quality in a Nalgonda District, Telangana, India, 2015 Japan-Korea Joint Symposium, October 20, Busan, p.136-149.

Conferences/Seminars (Abstracts)

International level

- ❖ Sang Yong Chung, Hussam Eldin Elzain, **Venkatramanan Senapathi**, Selvam Sekar (2021) Assessment of nitrate contamination vulnerability using SVR-kernel models: A case study of Miryang City, Korea, The Geological Society of America (GSA) Annual meeting in New Orleans, USA, December 13-17, H35M-1170.
- ❖ Sang Yong Chung, **Venkatramanan Senapathi**, Hussam Eldin Elzain, Young Gyo Seo (2019). Case studies of AI application to groundwater contamination. International Conference on Soft Computing and Machine Learning (SCML 2019), Wuhan, China, April 26 – 29, P.11.
- ❖ Hussam Eldin Elzain, Sang Yong Chung, **Venkatramanan Senapathi**, Kye-Hun Park (2019). Improvement for the vulnerability indices of groundwater contamination using an optimized back propagation artificial neural network model in Miryang City, South Korea. EGU General Assembly 2019, Vienna, Austria, April 7 – 12, Vol. 21, EGU2019-18441-3.
- ❖ Simal Bhuyan Md, Szabo S, Hossain MM, Nabi MR, **Venkatramanan S**, Islam MS (2019). Global microplastic pollution, its impacts, and mitigation pathways: a critical review. 1st International Conference on Environmental Science and Resources Management: Safe Environment for Better Living (ICESRM), Bangladesh, February 8 & 9, P.80.
- ❖ Hussam Elzain, Sang Yong Chung, **Venkatramanan Senapathi**, Kye-Hun Park, Hae-Woo Kwon, Hae Rim Oh (2018). Improvement of original DRASTIC method for the evaluation of groundwater contamination vulnerability. 45th International Association of Hydrogeologists, Daejeon, Republic of Korea, September 9

to 14. No.FP.173.

- ❖ E.E. Hussam, SY. Chung, **S. Venkaramanan**, Kye Hun Park (2017). Evaluation of Groundwater Quality and Contamination Sources Using Geostatistical Methods and GIS in Miryang City, Korea. International Journal of Geological and Environmental Engineering World Academy of Science, Engineering and Technology (WAEST), Bangkok, Thailand, October 26-27, Vol:4, No:10.
- ❖ SY. Chung, **S. Venkatramanan**, KH. Park, S. Selvam, EE. Hussam, JH. Son, K. Elyorbek (2017). Evaluation of Groundwater contamination using geochemical analyses and fuzzy technique. The Geological Society of America (GSA) Annual meeting in Baltimore, Maryland, USA, October 22-25, Vol 49, No.6.
- ❖ S. Selvam, C. Singaraja, **S. Venkatramanan**, SY. Chung, P. Sivasubramanian (2016) Hydrogeochemical study of fluoride contamination in groundwater at Ottapidaram taluk in Thoothukudi district of Taminadu, India. International Conference on Environmental Sustainability for Food Security, September 22-24, p.62.
- ❖ S.Y. Chung, **S. Venkatramanan**, K. Eloyerbek, S. Selvam, Y.Y.Oh (2016). Evaluation of contaminations and sources of heavy metals in sediments at Samrak Delta of Nakdong River in Busan, Korea using Geostatistical Methods. European Geosciences Union (EGU 2016), Vienna, Austria, 12-17 April, Vol 18, 5462.
- ❖ S.Y. Chung, **S. Venkatramanan**, R. Rajesh, K. Eloyerbek (2015). Artificial injection of fresh water into a confined saline aquifer: a case study at the Nakdong River Delta area, Korea. American Geophysical Union (AGU), Annual fall meeting in San Francisco, USA, December 14-18, P.1501.
- ❖ S.Y. Chung, R. Rajesh, **S. Venkatramanan**, K. Eloyerbek. (2015). Assessment of heavy metals in groundwater using contamination evaluation indices, Multivariate statistical analysis and geochemical modelling: a case study at the Nakdong River Basin, Korea. The Geological Society of America (GSA) Annual meeting in Baltimore, Maryland, USA, November 1-4, p.296.
- ❖ S.Y. Chung, R. Rajesh, **S. Venkatramanan**, L. Elango. (2015). Hydrogeochemical processes of groundwater using multivariate statistical analyses and inverse geochemical modeling in Samrak Park of Nakdong River Basin, Korea. European Geosciences Union (EGU 2015), Vienna, Austria, 12-17 April, p.128.
- ❖ S.Y. Chung, **S. Venkatramanan**, R. Rajesh, A. Elyorbek, M.Kim. (2015). Interrelationship between geochemical elements of sediments and groundwater using artificial neural network approach. IAH 2015 Asia-Pacific Regional Meeting, Jeju Island, Korea, April 9-11, p.159.
- ❖ R. Rajesh, S.Y. Chung, **S. Venkatramanan**, M. Kim, A. Elyorbek. (2015). Evaluation of heavy metal contamination in groundwater at Samrak park of Nakdong River Basin, Korea. IAH 2015 Asia-Pacific Regional Meeting, Jeju Island, Korea, April 9-11, p.176.
- ❖ S.Y. Chung, **S. Venkatramanan** (2014). The characteristics of groundwater contamination by heavy metals at an abandoned iron mine in Korea, The Geological Society of America (GSA) Annual meeting in Vancouver, British Columbia, October 19-22, p.147.
- ❖ S.Y. Chung, **S. Venkatramanan**, T.H. Kim, R. Rajesh, Minji Kim (2014). WQI evaluation and hydrogeochemical processes of groundwater quality in a coastal area of Busan City, Korea. 2014 Fall of Annual Meeting, Korean Society of Soil and Groundwater Environment, Seoul, South Korea, Oct 16 – 17, p.201.
- ❖ R. Rajesh, L. Elango, SY. Chung, **S. Venkatramanan**, Miniji Kim (2014). Hydrogeochemical characteristics of groundwater quality in a granite terrain of Southern India. 2014 Fall of Annual Meeting, Korean Society of Soil and Groundwater Environment, Seoul, South Korea, Oct 16 – 17, p.203.
- ❖ S.Y. Chung, **S. Venkatramanan**, R. Rajesh, Minji Kim (2014). Spatial and temporal patterns of heavy metals in deltaic sediments of Nakdong River, Korea. 2014 Fall of Annual Meeting, Korean Society of Soil and Groundwater Environment, Seoul, South Korea, Oct 16 – 17, p.205.
- ❖ S.Y. Chung, R. Rajesh, **S. Venkatramanan**, Minji Kim (2014). A Preliminary investigation of hydrogeology and physico-chemical characteristics of groundwater in Samrak Park of Nakdong River Basin, Korea. 2014 Fall of Annual Meeting, Korean Society of Soil and Groundwater Environment, Seoul, South Korea, Oct 16 – 17, p.207.
- ❖ S.Y. Chung, **S. Venkatramanan**, Minji Kim, T. Ramkumar, S. Vasudevan (2013). Correlation of Interface between Fresh Water and Seawater with Tide at a Coastal Area in Busan, Korea, International Symposium and Asian network on soil and groundwater environment. 2013, Seoul, South Korea, Oct 31 – Nov 1, p.499.
- ❖ **S. Venkatramanan**, S.Y. Chung, T. Ramkumar, S. Vasudevan, G. Gnanachandrasamy, Miniji Kim (2013). A study on Groundwater quality evaluation under seawater incursion with hydrogeochemistry, Muthupet, Tamilnadu, India. 2013 International Symposium and Asian Network on Soil and Groundwater Environment, Seoul, South Korea, Oct 31 – Nov 1, p.501.
- ❖ **S. Venkatramanan**, T. Ramkumar, I. Anithamary, S. Vasudevan, G. Gnanachandrasamy (2013). Geochemical speciation of selected heavy metals in the river estuarine sediments, Tirumalairajan river

estuary, east coast of India, 8th International congress on climate change, territorial classification & socio-economic crisis, Bharathidasan University, Trichy, April 23-25, p.63.

- ❖ Ramkumar T, Anithamary I, **Venkatramanan S**, Gnanachandrasamy, G. S. Vasudevan (2012). Distribution and Speciation of Selected Heavy Metals in the Surface Sediments from an Estuary in Coleroon river, East Coast of India, IGCP 582 Annual Meeting and Conference On Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, Indian Institute of Technology Kanpur, Kanpur, January 5-7, p.57.

National level

- ❖ E.E. Hussam, K. Elyorbek, SY. Chung, **S. Venkaramanan**. (2017). Hydrogeological parameters of unconsolidated sediments in the Nakdong River Delta of Busan city, Korea. Conference of Geo-Environmental Engineering (GEE 2017) by Korean Society of Soil and Groundwater Environment, Seoul National University, Seoul, Korea, May 18-20, p.169-170.
- ❖ **S. Venkaramanan**, SY. Chung, EE. Hussam, JH. Son. (2017). A Study of Correlation between hydrological parameters and tide at coastal area. 2017 Joint Conference of the Geological Science & Technology of Korea, Hilton, Gyeongju, Korea, April 19 – 21, p.229.
- ❖ **S. Venkatramanan**, SY. Chung, Kh. Eloyerbek, H. Kang. (2016). Evaluation of groundwater quality using hydrogeochemical processes and fuzzy GIS in Yeonje-gu area of Busan, Korea. Joint Conference of the Geological Science & Technology of Korea, BEXCO, Busan, Korea, April 20 – 22, p.116.
- ❖ T. Ramkumar, **S. Venkatramanan**, I. Anithamary and G. Gnanachandrasamy. (2011). A Geochemical approach for sea water incursion assessment in the Muthupet coastal region, Tamilnadu, India. National Conference on Geosciences & Water Resources for sustainable development GWRSD, Andhra University, Visakhapatnam, abstract, February 11 & 12, p.159.
- ❖ T. Ramkumar, I. Anithamary, **S. Venkatramanan** and G. Gnanachandrasamy. (2011). Evaluation of groundwater quality in Pointcalimer, Nagapattinam District, Tamilnadu, India, National Conference on Geosciences & Water Resources for sustainable development GWRSD, Andhra University, Visakhapatnam, abstract, February 11 & 12, p.160.
- ❖ **S. Venkatramanan**, T. Ramkumar, I. Anithamary, S. Vasudevan (2011). Sediments Characteristics of Tirumalairajanar river estuary, Tamilnadu, India. National Seminar on Basins of India, Their Resources and Management. Annamalai University, Chidambaram, Tamilnadu, abstract, February 17 & 18, p.47.
- ❖ T. Ramkumar, I. Anitha Mary, **S. Venkatramanan**, M. Tamilselvi, G. Ramesh, S. Vasudevan, V. Vijayakumar (2010). Groundwater quality assessment and seawater intrusion studies in Vedharanyam coastal town, Tamilnadu, India. National conference on Recent trends in Geosciences research, Annamalai University, Chidambaram, Tamilnadu, abstract, March 5 & 6, p.31.
- ❖ T. Ramkumar, I. Anithamary, **S. Venkatramanan**, M. Anuratha, M. Tamilselvi, G. Ramesh, S. Vasudevan, V. Vijayakumar (2010). Hydrogeochemical study of groundwater in Nagapattinam coastal town, Tamilnadu, India. National Conference on Aggrandize of life Science, Annamalai University, Chidambaram, Tamilnadu, abstract, March 29 & 30, p.38.
- ❖ **S. Venkatramanan**, T. Ramkumar, I. Anithamary, G. Ramesh, (2010). Seasonal variation of estuary sediment of Tirumalairajanar river, Tamilnadu, India. National Conference and XXVII-convention of Indian Association of Sedimentologist (IAS), University of Jammu, Jammu, abstract, December 22-24, p.68.
- ❖ I. Anithamary, T. Ramkumar, **S. Venkatramanan**, G. Ramesh, (2010). Textural characteristics of the Coleroon estuary sediments, Tamilnadu, East coast of India. National Conference and XXVII-convention of Indian Association of Sedimentologist (IAS), University of Jammu, Jammu, abstract, December 22-24, p.76.
- ❖ V. Vijayakumar, S. Vasudevan, S. Velladurai, P. Balamurugan, R. Selvaganapathi and **S. Venkatramanan**, (2010). Sedimentological, Morphometric characteristics of Perumal lake, Cuddalore district, Tamilnadu, South India, National Conference and XXVII-convention of Indian Association of Sedimentologist (IAS), University of Jammu, Jammu, abstract, December 22-24, p.43.
- ❖ M. Tamilselvi, T. Ramkumar, M.V. Mukesh, I. Anithamary, **S. Venkatramanan**, (2010). Spatial distribution of groundwater quality in relation to geology and geomorphology Vedaraniyam region, Tamilnadu. National Conference and XXVII-convention of Indian Association of Sedimentologist (IAS), University of Jammu, Jammu, abstract, December 22-24, p.71.
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