



**Dr. V. PERUMAL**

**Adjunct Faculty**

Address Department of Geology  
MIS Building, I-Floor, Room No. F4, Science Campus,  
Alagappa University Karaikudi – 630003, Tamil Nadu,  
INDIA.

Contact Phone (Mobile) +919788242497

Contact e-mail(s) [geo6perumal@gmail.com](mailto:geo6perumal@gmail.com)

### Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph. D	V.O.C. College, Tuticorin	April 2017	Petrological Geochemistry - Geology	Awarded
M. Sc	V.O.C. College, Tuticorin	April 2011	Geology	I
B. Sc	V.O.C. College, Tuticorin	April 2009	Geology	II

### Teaching Experience

**Total Teaching Experience : 8 Years**

Position	Institution	Duration
Teaching Assistance	<b>Alagappa University, Karaikudi</b>	28.2.2017 – Till Date

## Research Experience

Total Research Experience : 13 Years

Position	Institution / University	Duration
Teaching Assistance	Alagappa University, Karaikudi	2017-Till Date
Research Scholar	V.O.Chidambaram College, Tuticorin	2012-2017

## Areas of Research

- Petrology, Geochemistry, Palaeoclimate studies.

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Project	PG	30	8

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/ Chapters/ Monographs/ Manuals
13	5	5	-	3

Cumulative Impact Factor (as per JCR) : 21.287

h-index : 8

i10 index : 4

Total Citations : 132

## Events

Number of Seminars /Conferences /Workshops/ Events organized:

Position	Programme	Duration	Institution
Organizing member	"Recent Trends in Geological Sciences"	27-02-2024	Department of Geology, Alagappa University, Karaikudi.
Workshop committee Member	"Late Quaternary Palaeoclimate and Evolving Hypothesis"	7 January, 2019.	Department of Geology, Alagappa University, Karaikudi
Conference committee Member	"Conservation and Sustainable development of Marine resources"	22nd & 23 <sup>rd</sup> , March 2018.	DOCAS, Alagappa University, Karaikudi

## Events Participated

### Number of Conferences/Seminars/Workshops:

1. **Participated a Workshop on “Petroleum Exploration”** Sponsored by **Oil and Natural Gas Corporation, Chennai**, Organized by the Department of Geology, **V.O.C. College, Tuticorin. Held on 11 and 12 December 2015.**
2. **Participated a Workshop** on Image “Processing and GIS Techniques in Geology” held on 2<sup>th</sup>& 3<sup>th</sup> August **2013**, Sponsored by Department of Geology, National College, Trichy.
3. **Participated Workshop** on “Geological & Geotechnical Engineering” held on 5<sup>th</sup>& 6<sup>th</sup> **January 2012**, sponsored by **Ministry of Earth Sciences (Government of India)** Dr. Sivanthi Aditanar College of Engineering, Tiruchendur.
4. **Participated Workshop** on Golden Jubilee Celebrations and Alumni Meet of Department of Studies in Earth Science & National Workshop on “Recent Advances in Sedimentary Basins and Associated Mineral Deposits of India” held on **29<sup>th</sup>& 30<sup>th</sup> September 2011**, Sponsored by **University of Mysore.**
5. **Participated Workshop** on “Petroleum Exploration” held on **26<sup>th</sup>& 27<sup>th</sup> October 2009**, Sponsored by **Oil and Natural Gas Corporation, Chennai**, Organized by the Department of Geology, **V.O.C. College, Tuticorin.**
6. **Participated Workshop** on “National Level Brain storming Session on Nano Geoscience” held between **20<sup>th</sup>& 21<sup>th</sup> August 2009**, sponsored by **Department of Marine Science Bharathidasan University, Tiruchirapalli.**
7. **Participated in a Seminar** entitled as “Disaster Management Thoughts Observed in Tamil Classical Literatures” held on **10<sup>th</sup>& 11<sup>th</sup> February 2011**. Sponsored by Department of Industrial Earth Science Tamil University, Tanjore, Tamilnadu, India.
8. **Participated in a Seminar** entitled as “Sustainable Management of Groundwater with Special Focus on Coastal Aquifers” (SMOGCAS) held at Department of Earth Sciences, Annamalai University, Annamalainagar, Chidambaram, Tamilnadu, India during on **29<sup>th</sup>& 30<sup>th</sup> March 2012.**

## Participated in Training Programs

1. **Attended a Training Program** on “Aquifer Information System and Aquifer Management plan” organized by “**Central Ground Water Board, South Eastern Coastal Region**” conducted by V.O.Chidambaram College, Department of Geology, Tuticorin. On 09 – 13.08.2016.
2. **Attended a Training Program** on “**Placer Deposits of the Coast**” Organized by Department of Earth Sciences, Annamalai University, Annamalainagar, Chidambaram, Tamilnadu, India during on **17<sup>th</sup>& 21<sup>th</sup> March 2014.**
3. **Attended a Summer Training Program** on Geospatial Technologies and its Applications organized by Department of Civil Engineering, PSNA College of

Engineering & Technology, Dindugal, from **2<sup>nd</sup> & 22<sup>nd</sup> May 2012**, Sponsored by **NRDMS, DST, Govt. of India, New Delhi**.

- 4. Attended a Summer Training Program** on Industrial Mineral Mining and Exploration in Periyanaalal, Kattupiringium, and Pudupalayam North Limestone Mines Sponsored by Madras Cements Ltd., Govindapuram Works, Ariyalur. From **25<sup>th</sup> & 27<sup>th</sup> February 2011**.
- 5. Attended a Training program** conducted by V.O.Chidambaram College Department of Geology entitled as **“Introduction to Arc GIS”** From **24<sup>th</sup> January to 23<sup>th</sup> February 2011**.
- 6. Attended a Summer Training & Field visit Project Program** on “Well Site Geological Techniques” in Oil & Natural Gas Corporation Ltd., Forward Base Office, Neravy Complex, Karaikal, conducted field visit on **25<sup>th</sup> May, 2010**, Sponsored by Oil & Natural Gas Corporation Ltd.

### Presented Research Paper

- 1. Presented a Research Paper** entitled as “Heavy Mineral Studies on Different Landforms of Quaternary Period between Coleroon River and Cuddalore, South East Coast of Tamilnadu” In the National Seminar on **Sustainable Open Cast Mining at Small Mines**, Periyar University, Salem **on 22 and 23 February, 2018**.
- 2. Presented a Research Paper** entitled as “Petro-Mineralogy and Major elements Geochemistry of Regolith profile of Calcrete deposits at Pandalgudi, Viruthunagar District, Tamilnadu, India”. In the National seminar on **Quaternary Stratigraphy, Sedimentation and Sea Level Changes (QSSS-2015)**, Annamalai university **on 19<sup>th</sup> and 20<sup>th</sup> march, 2015**.
- 3. Presented a Research Paper** entitled as “Study of Micro-morphology, Major element geochemistry and Palaeoclimatic implications of calcrete deposits at Salukkuvarpatti village, near Pandalgudi, Viruthunagar District, Tamilnadu, India” in the **National seminar on Recent Developments and Challenges in geochemistry (GEOCHEM-2015)** Annamalai university, Chidambaram, Tamilnadu. **On 26<sup>th</sup> and 27<sup>th</sup> march, 2015**.
- 4. Presented a Research Paper** entitled as “Micro-Morphology and GIS based Evaluation of major element geochemistry of Calcrete deposits in and around Sathankulam, Tuticorin District, Southern Tamilnadu, India”. To **MTM-2014. ( Magmatism Tectonism and Mineralization)** Center of Advanced Study in Geology, Kumaun University, Nainital, **Uttarakhand, India- 263002**.
- 5. Presented a Research Paper** (poster) in the National Seminar on “Sediments and Sedimentary Rocks; Resource Potential, Depositional Processes, Implications to Ecosystem and Environmental Changes” held **on 20-22 December, 2012**, **Department of Geology Pondicherry University**.

## List of Research Articles / Recent Publications

S. No	Authors / Title of the paper / Journal	Impact Factor
1	M. Senthappan, V. Stephen Pitchaimani, A.V. Udayanapillai, <b>Perumal Velmayil</b> , Bangarupriyanga Sundaram, G. Ramalingam, and John S. Armstrong-Altrin 2023. Petrography and geochemistry of the Upper Cretaceous Gryphaea Limestones, Kallankurichi Formation, Ariyalur Group, Trichinopoly, Southern India: Implication for palaeoenvironment, Journal Indian Association of Sedimentologists, Vol. 40(2). pp. 14-26, <a href="https://doi.org/10.51710/jias.v40i11.309">https://doi.org/10.51710/jias.v40i11.309</a> .	-
2	Muruganantham Arumugam, Sivakumar Karthikeyan, Prabakaran Kulandaisamy, Kongeswaran Thangaraj, Venkatramanan Senapathi, Bangaru Priyanga Sundaram, Agastheeswaran Vellaikannu and <b>Perumal Velmayil</b> (2023). Hydrogeochemical Evaluation of Groundwater for Drinking and Irrigation Purposes in Avudaiyarkoil Block, Pudukkottai District, Tamil Nadu, India. Environmental Earth Sciences 81:445, <a href="https://doi.org/10.1007/s12665-022-10552-0">https://doi.org/10.1007/s12665-022-10552-0</a> .	3.119.
3	Udayanapillai Alagaiah Venu, <b>Perumal Velmayil</b> , John Selvamony Armstrong-Altrin, Alcides Sial, Satyanarayanan Manavalan (2022). Geochemical and stable isotope ( $\delta^{13}\text{C}$ & $\delta^{18}\text{O}$ ) signatures of Calcrete in and around Pandalgudi, Southern Tamilnadu, India and its implications on Palaeoclimate. Arabian Journal of Geosciences 15(913): 1-19. <a href="https://doi.org/10.1007/s12517-022-10134-1">https://doi.org/10.1007/s12517-022-10134-1</a> .	1.950.
4	<b>Perumal Velmayil</b> , Udayanapillai Alagaiah Venu, Kuttalingam U, Bangarupriyanga Sundaram (2022). Hydro-geochemical studies of Groundwater in Sathankulam region, Southern Tamilnadu, India, journal of Modeling Earth Systems and Environment, <a href="https://doi.org/10.1007/s40808-022-01515-2">https://doi.org/10.1007/s40808-022-01515-2</a> .	3.200.
5	Udayanapillai A.V and <b>Perumal Velmayil</b> (2021). Texture, mineralogy and geochemistry of Teri sediments from the Kuthiraimozhi deposit, Southern Tamilnadu, India: implications on provenance, weathering and palaeoclimate, Arabian Journal of Geosciences, Vol. 14(5), pp.1-15. <a href="https://doi.org/10.1007/s12517-021-06549-x">https://doi.org/10.1007/s12517-021-06549-x</a> .	1.950.
6	Muruganantham A, Sivakumar K, Prabakaran K, Kongeswaran T, Venkatramanan S, Bangaru Priyanga S, Agastheeswaran V, and <b>Perumal Velmayil</b> (2021). Use of GIS in Hydrogeochemical Study and Quality Status from Pudukkottai District, Tamil Nadu, India. DOI: <a href="https://doi.org/10.21203/rs.3.rs-577840/v1">https://doi.org/10.21203/rs.3.rs-577840/v1</a> .	3.119.

7	Muruganantham Arumugam, Sivakumar Karthikeyan, Kongeswaran Thangaraj, Prabakaran Kulandaisamy, Bangaru Priyanga Sundaram, Karikalan Ramasamy, Agastheeswaran Vellaikannu1 and <b>Perumal Velmayil (2021)</b> . Hydrogeochemical Analysis for Groundwater Suitability Appraisal in Sivagangai, an Economically Backward District of Tamil Nadu. JOURNAL GEOLOGICAL SOCIETY OF INDIA Vol.97, July 2021.	1.613.
8	<b>Perumal Velmayil</b> and Udayanapillai A.V (2020). Calcrete profiles in Puthukulam quarry section, Sathankulam region, Southern Tamilnadu, India: implications on palaeoclimate significance, Journal of Sedimentary Environments, Vol. 5(4), pp.493-503. <a href="https://doi.org/10.1007/s43217-020-00029-0">https://doi.org/10.1007/s43217-020-00029-0</a> .	1.300.
9	Udayanapillai A.V <b>Perumal Velmayil</b> and John S. Armstrong-Altrin (2020). Provenance, Weathering, Tectonic setting and Palaeo-oxygenation condition of the Cretaceous Calcareous Grey Shale (CGS) from the Kallakudi Dalmia Limestone Quarry No:II, Uttatur group, Trichinopoly, Tamilnadu, India.Himalayan Geology, Vol. 41 (1), pp. 11-20.	1.311.
10	<b>Perumal Velmayil</b> and Udayanapillai A.V (2019). Micromorphology and major element geochemistry of calcretes in the Thoppukulam mine section, Sathankulam region, Southern Tamil Nadu, India: implications on depositional environment. Arabian Journal of Geosciences, Vol. 12(385), pp.1-12. <a href="https://doi.org/10.1007/s12517-019-4544-4">https://doi.org/10.1007/s12517-019-4544-4</a> .	1.950.
11	<b>Perumal Velmayil</b> , Udayanapillai A.V, John S. Armstrong-Altrin and Satyanarayanan M (2016) "Major element geochemistry and depositional environment of Regolith calcretedeposit of Nedungkulam village, near Sathankulam area Tuticorin district, Tamilnadu, India". <b>OUTREACH Vol. IX, pp. 307 - 313.</b>	
12	<b>Perumal Velmayil</b> , Udayanapillai A.V, John S. Armstrong-Altrin and Satyanarayanan. M (2015) "Micromorphology and GIS based Evaluation of Major Element Geochemistry of Calcrete Deposits in and around Nedungulam village, near Sathankulam, Tuticorin District, Southern Tamilnadu, India" Published a paper in <b>International Journal of Frontier Geoscience, American V-King Scientific Publication, Vol-3 Issue-2, 2015, pp. 11-19.</b>	
13	Udayanapillai A.V, <b>Perumal Velmayil</b> , John S. Armstrong-Altrin and Satyanarayanan M.(2016) " Micromorphology, Geochemistry and Spatial evaluation of Calcrete Deposits in and Around Sathankulam, Tuticorin District, Tamilnadu, India". <b>Published a paper in the Journal of Gondwana Geological Society, Nagpur, India. Vol. 1, No.2, pp.111-119.</b>	

14	<b>Perumal Velmayil</b> and Udayanapillai. A.V. (2015) "Petro-Mineralogy and Major Elements Geochemistry of Regolith profile of Calcrete deposits at Pandalgudi, Viruthunagar District, Tamilnadu, INDIA". <b>Published a paper in International Research Journal of Earth Science (ISCA-IRJES)-2015-039.</b>	
15	Udayanapillai A. V., <b>Perumal Velmayil</b> , Thirugnana sambandam R, Venkatraman P and Thangavel M (2015) "Study of Micro-morphology, Major element geochemistry and Palaeoclimatic implications of calcrete deposits at Salukkuvarpatti village, near Pandalgudi, Viruthunagar District, Tamilnadu, India" <b>Published a paper in Journal of Applied Geochemistry, ISSN 0972-1967.Vol-17, pp.421-431.</b>	
16	Udayanapillai A.V, Thirugnasambandam R, Venkataraman P, Thangavel M, Kaliasammal M, <b>Perumal Velmayil</b> and Amar Kumar Dash., (2014). "GIS based evaluation of major element geochemistry of calcrete deposit in and around Sivalarpatti village, near Pandalgudi, Viruthunagar District, Tamilnadu, India". <b>Journal of outreach, Vol. VII, pp. (136 - 141).</b>	
17	Udayanapillai. A.V, Venkataraman. P, Jayaranjeetham. J, <b>Perumal Velmayil</b> (2012) "Geochemistry of Groundwater in and around Vilathikulam and Ottapidaram Taluks, Thoothukudi District, Tamilnadu, India". <b>Journal of Outreach, ISSN: 09751246. Vol-V, pp.113-116.</b>	

## Book

S. No	Authors	Name of the Book	Publisher	ISBN
1	<b>Perumal Velmayil</b> and Udayanapillai A.V	A Study of Archean & Pre-Cambrian to Quaternary age Rocks: Implications on Field, Structural and Mineralogy observation in Pudukottai, South India.	LAMBERT Academic Publishing,	ISBN-13: 978-620-3-92540-1. ISBN-10:6203925403
2	<b>Perumal Velmayil</b> and Udayanapillai A.V	Characteristics of Cretaceous Red Soil,	Scholars' Press Academic Publishing,	ISBN-13: 978-613-8-97196-2 ISBN-10:6138971965
3	<b>Perumal Velmayil</b> and Udayanapillai A.V	Geological Study in Pranmalai Hills,	LAP LAMBERT Academic Publishing,	ISBN-13: 978-620-5-49914-6.



## Conference proceedings / Abstract volume

1. Bangaru priyanga Sundaram, Prabakaran Kulandaisamy, Venkatramanan Senapathi, **Perumal Velmayil**, Kongeswarn Thangaraj (2024) Heavy Metal Toxicity Potential Examine In Beach Sediments From Southern Coast of Tamilnadu, India, International Conference on Climate change and environmental sustainability (CCES-2024), 24th & 25th January, 2024. ISSN: 2321-5259 (online).
2. Prabakaran K, Udayanapillai A.V, **Perumal Velmayil**, Anand Surya B, Vimalnath B and Soundharya RM (2024). Petrography, Major Element Geochemistry and Palaeo Climatic Implication of Kallankurichy Arenaceous Limestone Bed, Ariyalur, Tamil Nadu, India. International Conference on Climate change and environmental sustainability (CCES-2024), 24th & 25th January, 2024. ISSN: 2321-5259 (online).
3. Prabakaran Kulandaisamy, Bangarupriyanga Sundaram\*, **Perumal Velmayil**, Venkatramanan Senapathi, Kongeswaran Thangaraj, Sathish Sugumaran, Ajitha (2023). Textural Characteristics and Geochemical Investigation of Beach Sediments of Rameswaram Island Tamil Nadu, India. 39th Convention of the Indian Association of Sedimentologists & International Conference on "Voyage of Sedimentology from the Mountains to the Oceans: An Innovative Trajectory," from the 6th to the 8th of December 2023", taking place at the Department of Earth Sciences, Annamalai University, Tamil Nadu, INDIA.
4. Kongeswaran. T, Prabakaran. K, Muneeswari. M, **Perumal Velmayil**, Venkatramanan. S, Sivakumar.K, Muthuramalingam. R and Muruganantham (2023) Assessing Microplastics characteristics of beach Sediments from Kodiyakarai to Sundarapandian pattinam, south east coast of Tamilnadu, India" 39th Convention of the Indian Association of Sedimentologists & International Conference on "Voyage of Sedimentology from the Mountains to the Oceans: An Innovative Trajectory," from the 6th to the 8th of December 2023", taking place at the Department of Earth Sciences, Annamalai University, Tamil Nadu, INDIA.
5. **Perumal Velmayil**, Prabakaran Kulandaisamy, Udayanapillai Alagaiah Venu, Kongeswaran Thangaraj, Venkatramanan Senapathi and Praneshwar Sekar, (2023) Nature and Geochemical Implications of Teri sand at Muttom Coastal dune, Kanyakumari District, Tamilnadu (2023). 39th Convention of the Indian Association of Sedimentologists & International Conference on "Voyage of Sedimentology from the Mountains to the Oceans: An Innovative Trajectory," from the 6th to the 8th of December 2023", taking place at the Department of Earth Sciences, Annamalai University, Tamil Nadu, INDIA.
6. Venkatramanan. S, Prabakaran. K, Abirami. R. Sivakumar. K. Kongeswaran T. **Perumal Velmayil** (2023). Analyzing Microplastic Traits in Chennai Marina Tourist Beach Sediments, 39th Convention of the Indian Association of Sedimentologists & International Conference on "Voyage of Sedimentology from the Mountains to the Oceans: An Innovative Trajectory," from the 6th to the 8th of December 2023", taking



place at the Department of Earth Sciences, Annamalai University, Tamil Nadu, INDIA.

7. M.Senthiappan V. Stephen Pitchaimani, A.V. Udayanapillai, **Perumal Velmayil**. S. Richard Abishek<sup>1</sup>, and John S. Armstrong – Altrin (2023). Petrography and geochemistry of shell limestone beds of Kallankurichi formation, Upper Cretaceous, Southern India. 39th Convention of the Indian Association of Sedimentologists & International Conference on "Voyage of Sedimentology from the Mountains to the Oceans: An Innovative Trajectory," from the 6th to the 8th of December 2023", taking place at the Department of Earth Sciences, Annamalai University, Tamil Nadu, INDIA.
8. Bangaru Priyanga S, Prabakaran K, Saravanakumar M, Udayanapillai A.V, **Perumal Velmayil** (2022). Trace metals and its implication of beach sediments in pollution aspects from Thiruchendur to Muttom Coast, Southern Tamil Nadu, India. National Seminar on Marine Pollution and Ecological Degradation (MPAED-2022).
9. S.Bangarupriyanga, K.Prabakaran, **Perumal Velmayil**, A.V.Udayanapillai (2022). A Gis Based Evaluation of Ground Water Quality Study In Aruppukottai, Virudhunagar District. National Conference on Remote Sensing and GIS (NCRSAGIS'22).
10. S. Bangaru Priyanga, R. Karikalan, K. Prabakaran, **Perumal Velmayil**, T. Kongeswaran (2022) Textural Classification of Sediments and Influence of Geomorphological Aspects in Vembar Coastal Region, Gulf of Mannar, Southern Tamilnadu, Conference proceeding International Seminar on "Computational Environmental Earth Science" (CEES 2020). ISBN No: 978-93-5406-711-2

#### **Resource persons in various capacities**

1. Resource Person a Workshop on "Sediment Geochemistry and Career Orientation for Geologist", Organized by the Department of Geology, V.O.C. College, Tuticorin. Held on 1ST & 2nd March 2018.
2. Resource Person a Workshop on "Mineral Exploration", Organized by the Department of Geology, V.O.C. College, Tuticorin. Held on 15th December 2017.

**Dr.V.PERUMAL**  
**Adjunct Faculty**