



Dr. K. Prabakaran

Assistant Professor and Head i/c

Address : Department of Geology
MIS Building, I-Floor, Room No. F1,
Science Campus,
Alagappa University
Karaikudi – 630 003
Tamil Nadu, INDIA

EmployeeNumber : 53408

Contact Phone (Office) : +91 4565- 224818

Contact Phone (Mobile) : 9047193931

Contact e-mail(s) : prabakarank@alagappauniversity.ac.in &
prabageo@gmail.com

Skype id : drkprabakar

Website : <https://www.alagappauniversity.ac.in/academics/faculty-of-science/school-of-marine-sciences/department-of-geology>

Academic Qualification : M.Sc., Ph.D.

Degree	Institution	Year	Branch	Class
Ph.D.	Bharathidasan University	Dec 2011	Geology	Highly Commended
M.Sc.	University of Madras	April 2004	Applied Geology	I

Teaching Experience

Total Teaching Experience : 12 Years 6 Months

Position	Institution	Duration
Assistant Professor & Head i/c	Department of Geology, Alagappa University	01-06-23 to Present
Assistant Professor	Department of Geology, Alagappa University	28-12-17 to 31-05-23

Assistant Professor	Department of Oceanography and Coastal Area Studies, Alagappa University	01-09-15 to 27-12-17
Assistant Professor	Department of Civil Engineering, Kalasalingam University	24-08-11 to 31-08-15

Research Experience

Total Research Experience : 17 Years

Position	Institution / University	Duration
Assistant Professor	Department of Geology, Alagappa University	28-12-17 to Present
Assistant Professor	Department of Oceanography and Coastal Area Studies, Alagappa University	01-09-15 to 27-12-17
Assistant Professor	Department of Civil Engineering, Kalasalingam University	24-08-11 to 31-08-15
SRF	DST – SSS Project, National College, Tiruchirappalli	01-06-09 to 31-06-11
JRF	DST – SSS Project, National College, Tiruchirappalli	08-05-06 to 31-05-09

Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
1	Head of the Department i/c	Department of Geology	01-06-23	Present

Areas of Research

- Hydrogeology
- Sedimentology & Geomorphology
- Remote Sensing and GIS

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	-	-
	Ph.D	02 (Thesis Submitted)	04
	M.Phil	04	01
Project	PG	60	08
	UG/ Others	20	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
17	02	-	02	01

Cumulative Impact Factor(as per JCR) : 29.35

h-index : 06

i10 index : 03

Total Citations : 107

Funded Research Projects

Completed Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA (TBRP)	2019	2020	"A Study of Natural Resources and Natural Disaster in Sivagangai District, Tamil Nadu."	6.00
2	AURF	2016	2018	"Studies on Mineral Resources and Coastal Geomorphology of Rameshwaram Region by using Remote Sensing and GIS Techniques"	0.80

Events organized in leading roles

Number of Seminars /Conferences /Workshops/ Events organized:

Position	Programme	Duration	Institution
Convener & Organizing Secretary	International Symposium on “Recent Trends in Geological Sciences” ISRTGS-2024	27-02-2024	Department of Geology, Alagappa University
Organizing Secretary	Special Lecture on “Employment opportunities for geology students”	11-04-2023	Department of Geology, Alagappa University
Organizing Secretary	Special Lecture on “Fundamentals of Geological Mapping” association with GSI-Bhuvisamvad Activity	22-02-2021	Department of Geology, Alagappa University
Organizing Secretary	Webinar Series on “Petrological Studies”	18-05-2020, 27 & 28-05-2020	RUSA Phase 2.0 sponsored in Department of Geology, Alagappa University
Organizing Secretary	National workshop on “Late Quaternary Palaeo climatic and Evolving Hypothesis”	07-01-2019	Department of Geology, Alagappa University
Organizing Secretary	Special Lecture on “Recent Advances in Petrology & Recent Advances in Geochemistry”	19-12-2018 to 20-12-2018	Department of Geology, Alagappa University
Organizing Secretary	International workshop on “Recent trends in Biosciences (ICRTB 2016)”	07-04-2016 to 09-04-2016	Department of Bio Technology, Alagappa University
Organizing Secretary	National workshop on “Geospatial Technology in Coastal Studies”	12-02-2016 to 13-02-2016	Department of Oceanography and CAS,

Events Participated

Number of Conferences/Seminars/Workshops:

1. Participated in the UGC sponsored “online **Refresher Course in Geo Sciences & Geo-Informatics (Interdisciplinary)** from 17-11-2023 to 30-11-2023 and obtained the **grade ‘A’** organized by the **UGC-HRDC**, Bharathidasan University, Tiruchirappalli-620023, TamilNadu.
2. Participated in the world water day – 2022 Webinar on “**Groundwater: making the invisible visible**” organized by the Department of Earth Sciences, **Pondicherry University**. Dated: 22-03-2022.

3. Participated in the Webinar on “**Water Chemistry Interpretation Methods Part-I**” organized by the Department of Geology, **Government Arts College, Salem, Tamilnadu**. Dated: 26-06-2020.
4. Participated in the Webinar on “**Basic Author Workshop Research Article Writing & Reference Management Using Mendeley**” organized by the Faculty of Science, **Annamalai University in collaboration with ELSEVIER, Chidambaram, Tamilnadu**, Dated: 22-06-2020.
5. Participated in the one-day National Workshop on “**Detailed petrology through innovative modern techniques in thin section preparation and petrographic studies**” organized by the PG & Research Department of Geology in association with **Chennai Metco, National College, Tiruchirappalli, Tamilnadu**. Dated: 20-02-2020.
6. Completed the self-learning Online Course on “**Understanding open Educational Resources**” offered by the **Common wealth of Learning, Canada**. Dated: 17-02-2020.
7. Coordinated in the Swachhta Hi Seva, SwachhtaPakhwads, RashtriyaPoshanMaah& Jal Shakti Abhiyan programmes Anti-plastic campaign rally at villages, organized by Centre for **SWACHH BHARAT** and **SWASTH BHARAT** (with financial support of **RUSA 2.0**), **Alagappa University, Karaikudi** from 01-07-2019 to 30-11-2019.
8. Participated in the Three-day International Workshop on “**E-Content Development for MOOCs among the Faculty Members**” organized by the Digital Education Cell, Sponsored by RUSA Phase 2.0 Scheme, **Alagappa University, Karaikudi, Tamilnadu**. Dated: 10th, 12th& 13-09-2019.
9. Participated in the one-day Seminar on “**Multidimensional Values of History for career development**” organized by the Department of History, **Alagappa University, Karaikudi, Tamilnadu**. Dated: 14-03-2019.
10. Participated in the one-day Workshop on “**Technical and Scholarly Writing**” organized by the **Technical and Academic writing centre**, Sponsored by RUSA Phase 2.0 Scheme, **Alagappa University, Karaikudi, Tamilnadu**. Dated: 14-02-2019.
11. Coordinated the Cultural Competitions of Alagappa University Inter Collegiate **Talent Exhibit show-2019**, organized by Cultural Club, **Alagappa University, Karaikudi** from 02-02-2019 to 03-02-2019.
12. Coordinated in the **SWACHHTA HI SEVA 2018** Activity of Door-to-door meeting for sanitation behaviours, organized by Centre on SWACHH BHARAT and SWASTH BHARAT, **Alagappa University, Karaikudi** from 15-09-2018 to 02-10-2018.
13. Participated in the 100th **Orientation Programme** from 15-11-2017 to 12-12-2017 and obtained the **grade ‘A’** organized by the **UGC-HRDC, Bharathidasan University, Tiruchirappalli-620023, TamilNadu**.
14. Participated in the DST Sponsored Two Days Workshop on “**Art of Project Writing and Management in Geospatial Technology**” Conducted by the DST Geospatial Chair, Centre for Remote Sensing, Bharathidasan University, Tiruchirappalli. Dated: 27-01-2017 & 28-01-2017

15. Participated in the National Training Workshop on “**LiDAR Technology and Applications**” organized by the Department of Earth Sciences, Annamalai University, Tamilnadu, Dated: 03-11-2016 & 04-11-2016.
16. Participated in the International conference on “**Multi-dimensional view of Tamil People Culture**” organized by Alagappa University Tamil Panpaattu Centre, Karaikudi, Tamilnadu, Dated: 22-10-2016 & 23-10-2016.
17. Participated in the International English Entry Level Examination “**Cambridge English Language Assessment Test**” (Entry 2, Business) and Achieved Council of Europe Level A2. Dated: 13-07-2015.
18. Participated in the International Seminar on “**Smart city planning using Geographical Information Systems**” organized by Dept. of Civil Engineering, PSNA College of Engineering and Technology, Dindigul. Dated 10-12-2014.
19. Participated in the National Workshop on “**R&D Proposals to National and International Funding for Researchers - Approach & Preparation**” organized by Dept. of Chemical Engineering, National Institute of Technology, Tiruchirappalli. Dated 16-08-13 & 17-08-13.
20. Participated in the National Technical Symposium on “**ASTHIVAR -2012**” organized by Dept. of Civil Engineering, Kalasalingam University, Krishnankoil. Dated 06-10-2012.
21. Participated in the **National Level Conference** on “**NCODMM -2012**” organized by Dept. of Civil Engineering, Kalasalingam University, Krishnankoil. Dated 06 & 07-04-2012.
22. Participated in the National Workshop on “**Frontiers in Catalysis Research**” organized by Dept. of Chemistry, National College, Tiruchirappalli. Dated 01-10-10.
23. Participated in the National Workshop on “**Environmental Protection**” organized by PWD (WRO) state Government and Dept. of Geology, National College, Tiruchirappalli. Dated 24-09-10.
24. Participated in the National Workshop on “**Recent Developments in Geospatial Technology**” organized by Dept. of Geology, School of Geosciences, Bharathidasan University, Tiruchirappalli. Dated 18-03-09 to 19-03-09.
25. Participated in the DST sponsored National Workshop on “**Coastal Non-Living Resources**” organized by Dept. of Geology, National College, Tiruchirappalli. Dated 13-03-08 to 15-03-08.
26. Participated in the UGC sponsored National Seminar on “**Coastal Zones of India**” organized by Dept. of Geology, National College, Tiruchirappalli. Dated 06-12-07 to 07-12-07.
27. Participated in the National Workshop on “**Remote Sensing for Environmental Studies**” organized by Dept. of Geography, School of Geosciences, Bharathidasan University, Tiruchirappalli. Dated 21-02-05 to 25-02-05.

Participated Training Programs

1. Participated online **Training** on “Wetlands in cities-spatial planning for disaster risk reduction” organized by **National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India** in collaboration with EP Department SPA, Bhubal. Dated 27-09-2022 & 29-09-2022.
2. Participated online **Training** on “Geospatial Technologies for Disaster Management” organized by **National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India** in collaboration with Bharathidasan University, Tiruchirappalli. Dated 23-08-2022 & 25-08-2022.
3. Completed the **Online Refresher Course** on “Climate change: A guide for teachers of all disciplines” organized by **SWAYAM-ARPIT, IISER, Pune (UGC, Govt of India & Ministry of Education)**. Dated: 01-12-2020 to 31-03-2021, Exam Date: 21-08-2021, Certificate Issued Date: 27-10-2021.
4. Participated in the **Two-Week Online** “Capacity Building programme for Faculty Members and Research Scholars” organized by the Alagappa University under the sponsorship of **UGC STRIDE Component-I Scheme**, Karaikudi, Tamilnadu. Dated: 12-06-2020 to 23-06-2020.
5. Participated in the Online Three-day National Level **Training Programme** on “**Coastal Disaster Risk Reduction & Resilience**” organized by National Institute of Disaster management, **Ministry of Home Affairs, New Delhi** in Collaboration with **Andhra Pradesh Human Resource Development Institute**, Bapatla, Guntur District. Dated: 17-06-2020 to 19-06-2020.
6. Completed the **Online Refresher Course** on “Curriculum pedagogy and evaluation for higher education” organized by **SWAYAM-ARPIT**, Central University of Kerala (**UGC, Govt of India, Ministry of Human Resource Development**). Dated: 01-09-2019 to 15-01-2020, Exam Date: 15-09-2020, Certificate Issued Date: 20-01-2021
7. Participated Short term **Training programme** on “**Training and scope of SCUBA Diving**” organized by Department of Oceanography and CAS, Thondi Campus, Alagappa University. Dated 15-02-2017 & 16-02-2017.
8. Participated in the **Training programme** on “**Open-source Quantum GIS**” organized by Dept. of Civil Engineering, Velammal College of Engineering and Technology, Madurai. Dated 23-01-2013.
9. Participated ISRO, Govt. of India sponsored **Training programme** on “**2nd course on Geoinformatics for Disaster Management**” organized by **Geological Survey of India Training Institute, Hyderabad**. Dated 11-07-06 to 09-08-06.
10. Participated in the **Training programme** on “**Introduction to Arc GIS 9**” organized by **ESRI India, NIIT GIS Ltd**. Chennai. Dated 27-02-06 to 03-03-06.
11. Participated in the **ISRO - NNRMS Training programme** on “**Geological Remote Sensing and GIS**”. Dept. of Geology, **Anna University**, Chennai. Dated 5-12-05 to 23-12-05.

12. Participated in the **Training programme** on “**Mathematical Modeling of Ground Water Flow and Mass transport through theory and hands on training**” organized by School of Environmental Sciences, **Jawaharlal Nehru University**, New Delhi. Dated 12-11-04 to 09-12-04.
13. Onboard participated on **C.R.V. Sagar Paschimi for the research programme** sponsored by **NIOT**, Dept. of Ocean Development, Govt. of India. Dated 15-09-03 to 18-09-03.

Resource persons in various capacities

National Conferences	:	04
International Conferences	:	01
Invited Lectures	:	05

Number of Invited / Special Lectures delivered:

1. Delivered a Lecture in one day Webinar on “**Remote Sensing and GIS in Geological Applications**” organized by PG & Research Dept. of Geology, V.O. Chidambaram College, Thoothukudi, Tamilnadu. Dated: 14-03-2024.
2. Delivered a Lecture in one day National workshop on “**New Trends in Geosciences**” organized by Dept. of Geology, Rani Anna Government College for women, Tirunelveli, Tamilnadu. Dated: 29-02-2024.
3. Delivered a Lecture “Climate change impact and mitigation” in the DST sponsored International Conference on “Climate change and environmental sustainability (CCES-2024)” organized by Dept. of Geology, Periyar University, Salem, Tamilnadu. Dated: 25-01-2024.
4. Act as a **Jury Member** on “one day workshop on internal Hackathon and reward best ideas of YUKTI-NIR-2023” in the Entrepreneurship, innovation and career hub in association with institution innovation council, Alagappa University, Karaikudi. Dated: 24-02-2023.
5. Act as a **Co-Chair person** on the session topic “Volcanism and meteorite impacts: Global impacts: Global climatic changes and pollutin” in the National Seminar on “Emerging Pollutant in Geosphere: Impact on Environment, Management and Challenges” organized by Department of Geology, Malankara Catholic College, Mariagiri, Kanyakumari. Dated: 9 & 10-07-2021.
6. Delivered a Lecture on “**Disaster Management**” organized by Dept. of Civil Engineering, Anjalai Ammal - Mahalingam Engineering College, Koyilvenni, Thiruvarur District, Tamilnadu. Dated: 10-09-2019.
7. Delivered a Special Lecture on “**Remote Sensing and Geographic Information**”

System (GIS) in Civil Engineering Application” organized by Department of Civil Engineering, Alagappa Polytechnic college, Karaikudi, Tamilnadu. Dated:16-08-2018.

8. Delivered a Lecture in National Seminar **“GIS and Remote Sensing Technology for National Development”** organized by Department of Civil Engineering, Kalasalingam Univerisyt, Krishnankoil, Tamilnadu. Dated:10-10-2014.
9. Delivered a Lecture in National Seminar on **“Recent Trends in Civil Engineering”** organized by Dept. of Civil Engineering, Mountzion College of Engineering and Technology, Puthukottai, Tamilnadu. Dated:16-08-2012.
10. Delivered a Lecture in National Seminar on **“Remotesensing and GIS”** organized by Dept. of Civil Engineering, Kalasalingam University, Krishnankoil, Tamilnadu, Dated: 25 &26-02-2012.

Overseas Exposure/ Visits

- Paper presentation: **International Conference** on Geological and Environmental Sustainability (ICGES), SCIENCEFORA, held at Putrajaya, **Malaysia** on 03-09-2019.

Membership in Professional Bodies

1. International Association of Hydrogeological Sciences – Membership No.20808

Academic Bodies in Other Institutes/Universities

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
2021 onwards	Doctoral Research Committee - Dept. of Geology, Periyar University, Salem	External Member
2023 onwards	Research Advisory Committee - Dept. of Civil Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai	External Member

Academic Bodies in University

Year/Period (onwards)	Name of the BoS/Administrative Committee / Academic Committee	Role (Dept. Level)
2023	BOARD OF STUDIES	Chairman
2019	BOARD OF STUDIES	Member
2018	SWAYAM	Coordinator
2018	SWACHH Bharat	Coordinator
2018	NIRF	Coordinator
2018	IQAC	Coordinator

Ph.D. Guidance

S.No	Name of the Scholar	Title of the Thesis	Year / Status
1	Mr.K. SIVAKUMAR Full-Time	"Assessment of Groundwater Vulnerable Zones and Quality Evaluation using Geospatial and Machine learning techniques in Ramanathapuram District, Tamilnadu, India"	Thesis Submitted
2	Mr.A. MURUGANANTHAM Full Time	"Appraisal of Hydrogeochemical Characteristics using remote sensing and GIS Techniques in Pudukkottai District, Tamil Nadu, India."	Thesis Submitted
3	Ms.S. BANGARUPRIYANGA Full Time	"Granulometric, Major Element Geochemistry and Mineralogical Characters of Coromandal and Malabar Coastal Sediments in Southern part of India"	June 2020 on going
4	Mr.R. MUTHURAMALINGAM Full Time	"Exploration of Groundwater Resources and Assessment of Pollution in Madurai Block, Tamil Nadu using Geospatial Technology"	Sep. 2021 on going
5	Mr. M. SARAVANAKUMAR Part Time	"Integrated Hydrogeological Studies of Dindigul Taluk, Dindigul District, Tamilnadu using Geospatial Techniques"	Oct. 2021 on going
6	Mr. S. SATHISH Full-Time	"Hydrogeochemical analysis of groundwater quality and heavy metal concentration for pollution aspects with gis techniques in Tiruchirappalli, Tamilnadu, India".	Aug. 2023 on going

Paper Presented

1. Presented paper entitled "Occurrence, spatial distribution and characterization of microplastics from the intertidal beach sediments in the Gulf of Mannar coast, Tamilnadu, India" **National Seminar** on Marine Pollution and Ecological degradation MPAED-2022, Dept. of Geology, Malankara Catholic College, Mariagiri, Kanyakumari-629153. Dated:27.07.2022 to29.07.2022.
2. Presented paper entitled "Exploration on Mineral resources and coastal geomorphology of Rameshwaram Island by using Remotesensing and GIS Techniques" **International Conference** on Geological and Environmental

Sustainability (ICGES), SCIENCEFORA, held in Putrajaya, **Malaysia** on 03-09-2019.

3. Presented paper entitled “Signatures of Climate change in velar river delta region, Puddukkottai district, Tamilnadu, India” **International Conference** on Impact of Climate change on Water resources, Centre for Geoinformatics and Planetary Studies, **Periyar University**, Salem-636011. Dated:12.07.2018 to13.07.2018.
4. Presented paper entitled “Sustainable open cast mining at small mines” **National Seminar** on “Twenty Ninth National Convention of Mining Engineers” held in Institution of Engineers (India), Salem local centre in association with the Dept. of Geology, **Periyar University and Geo Exploration & Mining Solutions (GEMS)**, Salem-636011. from 22-02-2018 to 23-02-2018.

List of Research Articles / Recent Publications

S. No	Authors / Title of the paper/ Journal	Impact Factor
1	Md.SimulBhuyan, LeventBat, Venkatramanan Senathipathi, Prabakaran Kulandaisamy , Selvam Sekar, Sayeed Mahmood Belal Haider, Gowhar Meraj, Md.TarikulIslam, Mrityunjoy Kunda, Md. WahidulAlam, Lotfi Rabaoui. (2024) “A review on sea cucumber (Bengali: Somuddro Sosha) as a bioindicator of heavy metal contamination and toxicity”, Marine Pollution Bulletin, https://doi.org/10.1016/j.marpolbul.2023.115988 .	5.8
2	Mohammad Gholizadeh, Ahmed Shadi, Ammarmaryam Abadi, Mahnaz Nemati, Venkatramanan Senapathi, Sivakumar Karthikeyan, Prabakaran Kulandaisamy . (2024) “Exploring the microplastic pollution: Unveiling origins and varieties in coastal sediments and waters of the Bushehr Province, PersianGulf,Iran”MarinePollutionBulletin, https://doi.org/10.1016/j.marpolbul.2023.115939 .	5.8
3	Muruganantham Arumugam, Prabakaran Kulandaisamy , Sivakumar Karthikeyan, Kongeswaran Thangaraj, Venkatramanan Senapathi, Sang Young Chung, Subagunasekar Muthuramalingam, Muthuramalingam Rajendran, Sathish Sugumaran and Siva Manimuthu. (2023) “An Assessment of Geospatial analysis combined with AHP Techniques to Identify Groundwater Potential Zones in the Pudukkottai District, Tamil Nadu, India.”, Water (MDPI), 15, (1101)pp. 1-21.	3.5
4	Muruganantham Arumugam, Sivakumar Karthikeyan, Prabakaran Kulandaisamy , Kongeswaran Thangaraj, Venkatramanan Senapathi, Bangaru Priyanga Sundaram, Agastheeswaran Vellaikannu and Perumal Velmayil (2022) “Role of GIS in deciphering hydrogeochemical processes and quality in Pudukkottai district, Tamil Nadu, India”, Environmental Earth Sciences (springer), Vol. 81(18) pp.1-22(445).	3.1
5	Sivakumar Karthikeyan, Prabakaran Kulandaisamy , Venkatramanan Senapathi, Sang Yong Chung, Kongeswaran Thangaraj, Muruganantham Arumugam, Sathish Sugumaran, and Sung Ho-Na (2022) “Hydrogeochemical Survey along the Northern Coastal Region of Ramanathapuram District,	2.8

	Tamilnadu, India.” Applied Sciences, Vol. 12(11), pp.1-28 (5595),	
6	Sivakumar Karthikeyan, Prabakaran Kulandaisamy , Muthusamy S, Kongeswaran Thangaraj, Muruganantham A, Gnanachandrasamy G. (2022) “Agriculture Drought Management in Ramanathapuram District of Tamil Nadu, India.” Journal of Climate Change, (IOS Press), Vol 8, (1), pp59-65.	0.6
7	Muruganantham Arumugam, Sivakumar Karthikeyan, Kongeswaran Thangaraj, Prabakaran Kulandaisamy , Bangaru Priyanga Sundaram, Karikalan Ramasamy, Agastheeswaran Vellaikannu and Perumal Velmayil (2021) “Hydrogeochemical analysis for Groundwater suitability appraisal in Sivagangai, Economically Backward District of Tamilnadu”, Journal Geological Society of India (springer), Vol.97, pp.789-798.	1.6
8	Sivakumar Karthikeyan, Shanmugasundaram Arumugam, Jayaprakash Muthumanickam, Prabakaran Kulandaisamy , Muthusamy Subramanian, Ramachandran Annadurai, VenkatramananSenapathi, Selvam Sekar(2021) “Causes of heavy metal contamination in groundwater of Tuticorin industrial block, Tamil Nadu, India” Environmental Science and Pollution Research (springer), Vol.28, pp.18651-18666.	4.2
9	Prabakaran Kulandaisamy , Sivakumar Karthikeyan & ArunaChockalingam, (2020) “Use of GIS-AHP tools for potable groundwater potential zone investigations—a case study in Vairavanpatti rural area, Tamil Nadu, India” Arabian Journal of Geosciences (springer), Vol.13 (17) Article number: 866 pp.1-15.	1.8
10	Naveen Raj T, Prabakaran K , Udhaya Gowtham G, Mahesh Kumar M, Aravind D, Saravana Vikash A (2016) “Landslide Hazard zonation mapping using Geospatial Technology in Bodimettu hills, Theni district, Tamilnadu” International Journal of Earth Sciences and Engineering, Vol.9 (4), pp.1454-1457.	-

Book Chapter

1. **Book:** Issues of Coastal Groundwater Contamination, “**Chapter-** Groundwater Contamination in Coastal Aquifers” Sivakumar Karthikeyan, **Prabakaran Kulandaisamy**, Venkatramanan Senapathi, Kongeswaran Thangaraj, & Muruganantham Arumugam. **Publisher: Elsevier** (2022) pp.9-18.

Dr. K. Prabakaran
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