

## RESUME



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2. Father's Name : Mu. Muthuvairavasamy
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4. Nationality: Indian Gender: Male Date of Birth: 08.07.1968 Researcher ID: E-5459-2010

### 5. Academic Qualifications

Examinations Passed/ Degrees Awarded	Name of the Board/Institution/University	Year
S.S.L.C.	Tamil Nadu State Board for Secondary Education Chennai.	1983
H.Sc.	Tamil Nadu State Board for Higher Secondary Education, Chennai.	1985
B.Sc.(Geology)	National College, Bharathidasan University, Tiruchy.	1988
M.Sc.(Geology)	Annamalai University, Chidambaram.	1990
Ph.D.(Earth Sciences)	School of Earth Sciences, Bharathidasan University, Tiruchy.	1995
PGDPM & LL	Alagappa University, Karaikudi	1999

### 6. Technical and other qualifications

Examinations Passed	Name of the Board/Institution	Year
Rashtrabasha(Hindi)	Dhashin Bharat Hindi Prachar Sabha, Chennai.	1983
Typewriting (English-Lower)	Dept. Technical Education, State Government of Tamil Nadu. Chennai.	1984
Diploma in Computer applications and Office Automation	Star Software Systems, Tiruchirapalli	1991
Intensive course on German as Foreign Language	Speak + Write, Marburg, Germany.	2001

### 7. Professional Experience

Employer	Post	Period		Nature of work
Department of Geology, Periyar University, Salem-636011.	Lecturer (from 03.12.2004), Senior Lecturer (from 3.12.2008) and Assistant Professor (since 01.01.2006)	03.12.2004	Till date	Teaching B.Sc., M.Sc. and M.Tech students and research guidance to M.Sc., M.Tech., M.Phil & Ph.D. students. Served as Head i/c of the Department of Geology and Student Advisor for M.Sc. Faculty-in-charge-Sedimentology Lab. Served as University Guest House Coordinator. Currently holding additional charge as Founder Director (i/c), Centre for Swami Vivekananda Studies.
Institute of Palaeo- environment, Erlangen, Germany	Visiting Scientist	01.05.2011	31.07.2011	Palaeoenvironment of Dhosa Oolite (Oxfordian), Gujarat, through Facies, geochemistry, stable isotope, mineralogy, petrography and microtexture.
		01.05.2010	31.07.2010	
		01.05.2009	29.07.2009	

Department of Earth Sciences, IIT-Bombay, Mumbai.	Senior Research Associate (CSIR)	14.11.2003	30.11.2004	Computerized prediction model for depositional units of Cauvery basin at Milankovitch scale.
Institute of Mineralogy and Geochemistry, Karlsruhe, Germany	AvH Fellow	05.03.2001	31.10.2002	Modelling of Cretaceous-Tertiary geological events through geochemical indicators.
Department of Geology, National College, Tiruchy	Research Associate	01.10.2000	02.03.2001	Chemostratigraphic modelling of Cauvery basin, Teaching & guidance to M.Sc.
Delta Studies Institute, Andhra University.	Research Scientist	29.09.1997	28.09.2000	Research and administration. Writing research proposals, reports and publications.
IIT-Kharagpur	Research Associate	07.11.1996	28.09.1997	Project work and handling practical for M.Sc & M.Tech.

### 8. Awards/Research Fellowships received

- Nominated for prestigious S.S.Merh Award instituted by Geological Society of India.
- Nominated for inclusion in International Who's Who in science and engineering directory, compiled by Marquis, United States of America, continuously for five years.
- CSIR Research Associate (1996-1997).
- CSIR Research Associate (2000-2001).
- Alexander von Humboldt Foundation Guest Scientist (2001 - 2002).
- DST Young Scientist Research (2001 - 2004).
- DST Young Scientist Research (2005 - 2008).
- CSIR Senior Research Associateship (2003 - 2004).
- Alexander von Humboldt Foundation Visiting Scientist (2009).
- Alexander von Humboldt Foundation Visiting Scientist (2010).
- Alexander von Humboldt Foundation Visiting Scientist (2011).

### 9. Professional Training

Title	Organised by	Details of Training
Training on Exploration and Mining	TANCEM Mines, State Govt. of Tamil Nadu, Ariyalur.	Mineral prospecting, mining methods, environmental and quality management.
Advanced training on Basin Modelling	Association of Exploration Geophysicists, Hyderabad and CMMACS, Bangalore.	Petroleum Exploration strategies, numerical modelling of basin processes, computer modelling and simulation.
28 days Orientation course for Assistant Professors	University Grants Commission, New Delhi and Academic Staff College of University of Calicut.	Recent developments in Teaching methodology, web authoring, student psychology, Human rights, UGC Rules.
21 days Refresher course/Training for Assistant Professors	NRDMS-DST, New Delhi and School of Geosciences, Bharathidasan University.	Geospatial Technologies and Applications - Photogrammetry, Remote Sensing, GIS, GPS.
21 days Refresher Course for Assistant Professors	University Grants Commission, New Delhi and Academic Staff College of Pondicherry University	Recent trends and developments in Environmental Education and Green Technology.

### 10. Dissertations submitted

- Ph.D. dissertation entitled "Geology, Petrology and Geochemistry of Kallankurichchi Formation (Lower Maestrichtian), Ariyalur Group, Tiruchy District, South India" submitted to the Bharathidasan University, Tiruchy.
- M.Sc. dissertation entitled "A brief report on Geology, Mineral Prospecting and Exploration in and around Ariyalur, Tiruchy District, Tamil Nadu" submitted to the Annamalai University, Chidambaram.

## 11. Publications (Complete list is appended)

Books authored	: 02
Books edited	: Published: 03; Under publication: 02
International Journal Publications	: Published: 14; Under Submission: 01; In Press: -00-
National Journal Publications	: Published: 51; Under Submission:-00-; In Press: -00-
Chapters in Edited volumes	: Published: 13; Under Submission: 08; In press: 04
Proceedings of International Seminar	: 02
Proceedings of National Seminar	: 10
Technical and consultancy reports	: 05
Vernacular Journals	: 09
Miscellaneous	: 44

## 12. Research interests

- Sequence and chemostratigraphic study of Jurassic-Recent Strata for stratigraphic correlation, petroleum exploration and reservoir characterization.
- Documentation of environmental and palaeoclimatic changes across major geochronological boundaries such as Maastrichtian-Danian, Cenomanian-Turonian and Oxfordian-Callovian through integrated analyses of lithology, petrography, mineralogy (bulk and clay), major and trace element geochemistry, stable and strontium isotopes and sea level changes.
- Establishment of Computer Information System for statistical discrimination and prediction of depositional units (litho, bio, chronostratigraphic units, sequences and chemozones, deltaic microenvironments, etc, for petroleum exploration and stratigraphic correlation.
- Dynamics of estuarine mixing, sediment and nutrient transport to oceans, pollutant assimilation and nutrient regeneration capacities of estuaries.
- Dynamics of coastal geomorphology and sedimentation patterns under the influence of changes in sea level vis-à-vis shoreline, land use and neotectonics; their implications on deltaic evolution and coastal zone and environmental management.

## 13. Research Guidance

**Ph.D.: Guiding 2 Students;**

**Completed 1 M.Phil., 2 M.Tech. and 13 M.Sc.projects. Ongoing: 4 M.Sc. projects.**

- Recognized Research Supervisor for M.Phil. and Ph.D. in Periyar University, Bharathiyar University and Annamalai University.
- Facies development and reservoir characteristics of Santonian-Campanian Gilbert type deltaic deposits of the Cauvery basin, South India. - Ongoing Ph.D. thesis work.
- Environmental and climatic conditions across Cretaceous-Tertiary transition in the Cauvery basin, South India. - Ongoing Ph.D. thesis work.
- Downstream textural trends of bedload sediments: Influence of geological, geomorphological and anthropogenic processes - Completed M.Sc. thesis work (2012).
- Impact of sand mining in the Kaveri River channel - Completed M.Tech. thesis work (2011).
- Shoreline and Landuse dynamics of Krishna Delta - Completed M.Tech. thesis work (2011).
- FTIR spectra of few selected natural crystals. M.Phil. thesis submitted to Annamalai University, Chidambaram, (2008).
- Facies and sequence stratigraphic modelling of Kallankurichchi Formation, Ariyalur Group, South India. M.Tech. thesis submitted to the Periyar University, Salem, (2008).
- Depositional conditions of Maastrichtian carbonates of the Cauvery basin, South India. M.Sc. thesis submitted to the Periyar University, Salem, (2006).
- Water harvesting locale identification through GIS: A case of Periyar University Campus, Salem. M.Sc. thesis submitted to the Periyar University, Salem (2006).

#### 14. Research projects Completed: 3; Ongoing: 3; Submitted: 2

Funding Source	Project work
Project funded by Deutsche Forschung Gemeinschaft (DFG), Germany. <b>Responsibility: Co-investigator</b>	Sedimentological, geochemical and palaeontologic characterization of Oxfordian condensed section of Gujarat, Western India for palaeoenvironment and palaeoecology.
Project funded through in-house research programme and KDMIPE, Dehra Dun. <b>Responsibility: Investigator</b>	Characterisation of Godavari deltaic sub-environments through their granulometric, textural, geochemical and mineralogical properties.
Project sanctioned by Department of Science and Technology, (DST), New Delhi. <b>Responsibility: Principal Investigator</b>	Development of computer information system for environmental recognition for Krishna and Godavari deltas for extension to palaeodelta.
Project funded by Department of Science and Technology, New Delhi. <b>Responsibility: Principal Investigator</b>	Integrated Sequence and chemostratigraphy of the Cauvery basin, South India with potential applications to hydrocarbon exploration.
Project funded by University Grants Commission, New Delhi. <b>Responsibility: Principal Investigator</b>	Documentation of environmental and climatic conditions during the transition of Cretaceous-Tertiary in the Cauvery basin, south India.
Project funded by CSIR, New Delhi. <b>Responsibility: Principal Investigator</b>	Development of an automated deterministic and predictive scheme for coastal sedimentary environments of Krishna delta, India.
Project funded by Department of Science and Technology, New Delhi. <b>Responsibility: Co-Investigator</b>	Depositional environments and sequence stratigraphy of Marwar Super Group, Rajasthan.
Project submitted for funding by Department of Ocean Development, New Delhi. <b>Responsibility: Principal Investigator</b>	Study of seasonal and geographic variations of nutrient transport in Krishna Estuary for effective effluent disposal.
Project submitted for funding by Ministry of Environment and Forests, New Delhi. <b>Responsibility: Principal Investigator</b>	Documenting influence of landuse on coastal sediments and estuarine dynamics and implications on future developmental activities and ecology.

#### 15. Professional Affiliation

- Chairman, Board of Studies in Swami Vivekananda Studies, Periyar University.
- Member, Standing Committee on Academic Affairs, Periyar University.
- Member - Post Graduate Board of Studies in Geology, Periyar University.
- Editorial Board Member - International Journal of Geology and Mining Research.
- Fellow of Geological Society of India, Indian Association of Geochemists, Indian Society of Earth Scientists, American Biographic Society, Geological Association and Research Centre.
- Member in Panel of Reviewers  
Journal of Geological Society of France, Palaeo<sup>3</sup> (Elsevier), International Journal of Geochemistry (Elsevier), International Journal of Applied Geochemistry (Elsevier), Geoscience Frontiers (Elsevier), Frontiers of Earth Science, International Journal of Oceanography and Marine Sciences, Journal of Geography and Regional Planning, International Journal of Geology and Mining, International Journal of Petroleum and Gas Research, International Journal of Evolutionary Biology Research, International Journal of Environmental Chemistry and Ecotoxicology, International Journal of Water Resources and Environmental Engineering, Research Journal of Earth and Planetary Sciences, Journal of Biodiversity Management and Forestry, Journal of Geological Society of India, Journal of Earth Sciences, Journal of the Gondwana Geological Society, African Journal of Agricultural Research, African Journal of Environmental Science and Technology.

#### 16. Seminar/Workshop organized

- Organized a Special Lecture Series “Earth-Future” sponsored by Alexander von Humboldt Foundation, Germany on 06.04.2011.
- Organized Humboldt Kolleg and International Conference entitled “*Recent advancements in Earth Resources Research: The Road to the Future*” (Earth-Future), sponsored by Alexander von Humboldt Foundation, Germany, during 7<sup>th</sup> - 9<sup>th</sup> September’ 2011.
- Organized a National Workshop sponsored by CSIR, New Delhi, and TNSCST, Chennai, entitled “*Geosciences, Georesources and IPR Regime: Familiarization and Practice*” during 5<sup>th</sup>-6<sup>th</sup> October’2006.
- Organized a regional workshop for Bachelors and Masters Students jointly with Sri Sarada Niketan College of Arts and Science for Women, Salem on 23-24.12.2013.
- Organized an Orientation Program for Women Faculty members of the Colleges affiliated to the Periyar University, jointly with the Centre for Women Studies on 22-23.01.2014.
- Organized a regional workshop for Bachelors and Masters Students jointly with Vysya College, Salem on 28-29.01.2014.
- Organized a regional workshop for Bachelors and Masters Students jointly with Sri Vidya Mandir College of Arts and Science, Krishnagiri on 30-31.01.2014.
- Organized a regional workshop for Bachelors and Masters Students jointly with Sri Subramaniam College of Arts and Science, Mohanur, on 18-19.02.2014.
- Organized a regional workshop for faculty members of University departments and affiliated colleges of the Periyar University, on 13-14.03.2014.

#### 17. Special/Invited Lectures delivered

- Sand mining, channel bar dynamics and the sustainability of natural fluvial system. Invited Lecture delivered at the National Seminar on Resource Management of Cauvery basin, organized by the School of Geosciences, Bharathidasan University, 24-25.01.2014.
- Characterization of depositional units for stratigraphic correlation, hydrocarbon exploration and reservoir characterization. Special lecture delivered at IISER-Mohali, 29<sup>th</sup> August 2012.
- The climatic and environmental signals of stream sediment textural properties: A case of the Kaveri River, South India. Invited Lecture delivered at the National seminar on River Basin Studies, School of Geosciences, Bharathidasan University, 2012.
- Understanding fossils for our own Good. Special lecture delivered at MOUNAM, Department of Journalism and Mass Communication, Periyar University, August 2011.
- Hyperspectral traits of sedimentary terrains. Invited lecture delivered at National Workshop on Hyperspectral Remote Sensing, Annamalai University, 2008.
- Integrated chemo-sequence stratigraphy of sedimentary sequences: A sure-fire technique for stratigraphic correlation, petroleum exploration, and reservoir characterization. Invited lecture delivered at the National seminar on Strategies for exploration of mineral resources. Annamalai University, 2006.
- Chemostratigraphy of the Cauvery Basin, South India. Lecture delivered at the Institute of Mineralogy and Geochemistry, Karlsruhe University, Germany, February 2000.

#### 18. Seminars/Workshops attended for paper presentation

- National seminar on EIA and Indian experiences, Madras University, Chennai.
- Annual convention of Indian Geographers, Government College, Kumbakonam.
- National symposium on Remote sensing of Environment. Anna University, Chennai.
- National seminar on Science and Society, Bharathidasan University, Tiruchirapalli.
- National seminar on People’s participation in environmental issues, Bharathidasan University, Tiruchirapalli.
- National seminar on Prospecting of Earth Resources, Madras University, Chennai.
- National seminar on Water harvesting, Regional Engineering College, Tiruchirapalli.
- II National Swedeshi Conference, Bharathidasan University, Tiruchirapalli.
- National seminar on Recent trends in Earth Sciences Research. Bharathidasan University, Tiruchirapalli.
- XIV Indian colloquium on Micropalaeontology and stratigraphy, Madras University, Chennai.
- National seminar on Applied geochemistry. Madras University, Chennai.
- Annual convention of Indian Association of Sedimentologists, University of Roorkee, Roorkee.

- Annual convention of the Deccan Geographical Society, Bharathidasan University, Tiruchirapalli.
- National seminar on Cretaceous Sedimentary Environments, Madras University, Chennai.
- IV National Swadesi Conference, Tamil Nadu Agricultural University, Coimbatore.
- V National Swadesi Conference, Annamalai University, Chidambaram.
- Annual convention of Indian Association of Sedimentologists, Gauhati University, Gauhati.
- State conference on Mineral Wealth of Tamil Nadu, National College, Tiruchirapalli.
- International seminar on Strides in Civil Engineering, Anna University, Chennai.
- National Conference on strategy for exploration and exploitation of natural resources in the context of global economic scenario. Annamalai University, Chidambaram.
- National Workshop on Hyperspectral Remote Sensing - Sponsored by Department of Science and Technology, New Delhi and organized by Annamalai University, Chidambaram (2007).
- National Workshop on Hyperspectral Remote Sensing Sponsored by Department of Science and Technology, New Delhi and organized by Annamalai University, Chidambaram (2008).
- National Seminar on Hyperspectral Remote Sensing and Spectral Database Management System (Hyperspec'2008) organized by Annamalai University, Chidambaram.
- National Seminar on "River Basin Studies", Bharathidasan University, Tiruchirapalli. (2012)
- International conference on Geosciences, Wuerzburg, Germany. (2002)
- International conference on Sustenance of Natural Resources, Holy Cross College, Tiruchirapalli. (2006)
- Humboldt Kolleg and International Conference entitled "*Recent advancements in Earth Resources Research: The Road to the Future*", Salem. (2011)

#### 19. Additional Information

- Organized and participated in shallow marine cruises for oceanographic, sedimentological and geochemical studies. Spent 23 weeks offshore.
- Designed a water sampler capable of collecting suspended sediment and water samples from different depths of estuary and shallow shelf, lakes, etc.
- Can read, speak and write in four languages, viz., Tamil, English, Hindi and German. I have speaking proficiency on the language Telugu.
- Volunteered in National Service Scheme (1984-1988) through active participation in crowd control campaigns during festivals, eco development camp, hospital service etc.

#### CONSULTANCY, TECHNICAL AND PROJECT REPORTS

- a. Ramkumar, M., 2002 Statistical characterization of chemostratigraphic units of the Cauvery basin, south India: Implications on the concepts of sequence stratigraphy, scale of stratigraphic correlation and petroleum exploration. Technical report submitted to the Alexander von Humboldt Foundation, Germany. 195p.
- b. Ramkumar, M., 2000 Suggestions for nourishment of ecosystem maintenance - Comments on action plan for harnessing and utilization of Godavari waters. Consultancy report submitted to the State Government of Andhra Pradesh. 18p.
- c. Ramkumar, M., 1999 Sedimentary microenvironments of Godavari delta - Distribution and morphodynamics. Technical report submitted to ONGC, Dehra Dun. 47p.
- d. Ramkumar, M., 1999 Sedimentary microenvironments of Godavari delta - Characterisation and statistical discrimination. Technical report submitted to the Director (Exploration), ONGC, 112p.
- e. Ramkumar, M., 1999 Petrographic studies on Kesanapalli borehole core samples. Technical report submitted to ONGC, Krishna-Godavari Project, Rajahmundry. 12p.

### **BOOKS (AUTHORED AND EDITED)**

- a. Ramkumar, M., (Editor) 2014 Chemostratigraphy: Concepts, techniques and applications. Elsevier. (Under preparation).
- b. Ramkumar, M., Kumarasamy, K. and Mohan Raju, D., (Editors) 2014 Environmental management of River basin ecosystems. Springer-Verlag, Heidelberg. (Under preparation).
- c. Ramkumar, M., (Editor) 2013 On a Sustainable Future of the Earth's Natural Resources. Springer-Verlag, Heidelberg, Germany. 554p. ISBN 978-3-642-32916-6. DOI 10.1007/978-3-642-32917-3
- d. Ramkumar, M., (Editor) 2009 Geological hazards: Causes, Consequences and methods of Containment. New India Publishers, New Delhi. 310p. ISBN No.9788190851275.
- e. Ramkumar, M. and Jayakumar, A., (Editors) 2008 Intellectual Property Rights Demystified. New India Publishers, New Delhi. 172p. (*Standard Reference book in the College of Law, University of Arizona. U.S.A.*). ISBN No.8189422871.
- f. Ramkumar, M., 2000 Smart Computing under DOS. TIAL Publication. 142p. (*Served as text book for many undergraduate courses in colleges*).
- g. Ramkumar, M., 2000 Smart Computing under WINDOWS. TIAL Publication. 156p. (*Served as text book for many undergraduate courses in colleges*).

### **PAPERS IN INTERNATIONAL JOURNALS AND CHAPTERS IN BOOKS BY INTERNATIONAL PUBLISHERS**

1. Ramkumar, M., 2014 Discrimination of tectonic dynamism, quiescence, and third order relative sea level cycles of the Cauvery Basin, South India. Inter.Jour.Geochem. (Submitted).
2. Ramkumar, M., 2014 Towards standardization of terminologies and recognition of chemostratigraphy as a formal stratigraphic method. In: Ramkumar, M., (Ed.). Chemostratigraphy: Concepts, techniques and applications. Elsevier. (Submitted).
3. Ramkumar, M., Alberti, M. and Fürsich, F.T., 2014 Chemostratigraphy of the Dhosa Oolite Member (Oxfordian), Kachchh Basin, western India: Implications for completeness of the stratigraphic record and correlation with global oolite peak. In: Ramkumar, M., (Ed.). Chemostratigraphy: Concepts, techniques and applications. Elsevier. (Submitted).
4. Ramkumar, M., Berner, Z., 2014 Temporal trends of geochemistry, relative sea level and source area weathering in the Barremian-Danian strata of the Cauvery Basin, South India. In: Ramkumar, M., (Ed.). Chemostratigraphy: Concepts, techniques and applications. Elsevier. (Submitted).
5. Sugantha, T., Ramkumar, M., Balaram, V., Rai, J. And Satyanarayana, D., 2014 Environmental and climatic conditions during the K-T transition in the Cauvery Basin, India: Current understanding and its relationships with/implications on the KTB scenarios. In: Ramkumar, M., (Ed.). Chemostratigraphy: Concepts, techniques and applications. Elsevier. (Submitted).
6. Ramkumar, M., Kumaraswamy, K., Arthur James, R., Suresh, M., Sugantha, T., Jayaraj, L., Mathiyalagan, Saraswathi, M. and Shyamala, J., 2014 Sand mining, channel bar dynamics and sediment textural properties of the Kaveri River, South India: Implications on flooding hazard and sustainability of the natural fluvial system. Revista Brasil.Geomofol. (Submitted).
7. Ramkumar, M., Kumaraswamy, K. and Mohan Raj, R., 2014 Land use dynamics and environmental management of River Basins with emphasis on deltaic ecosystems: Need for integrated study based development and nourishment programs and institutionalizing the management strategies. In: Ramkumar, M., Kumaraswamy, K. and Mohan Raj, R., (Eds.). Environmental management of River Basin ecosystems. Springer-Verlag, Heidelberg. (Submitted).
8. Ramkumar, M., 2014 Spatio-temporal analysis of magnetic mineral content as a tool to understand morphodynamics and evolutionary history of the Modern Godavari Delta: Implications on deltaic coastal zone environmental management. In: Ramkumar, M., Kumaraswamy, K. and Mohan Raj, R., (Eds.). Environmental management of River Basin ecosystems. Springer-Verlag, Heidelberg. (Submitted).
9. Tirukumaran, V. and Ramkumar, M., 2014 Remote sensing: An invincible tool for mapping the dynamics of riverine geomorphology. In: Ramkumar, M., Kumaraswamy, K. and Mohan Raj, R., (Eds.). Environmental management of River Basin ecosystems. Springer-Verlag, Heidelberg. (Submitted).
10. Ramkumar, M., 2014 Characterization of depositional units for stratigraphic correlation, petroleum exploration and reservoir characterization. In: Sinha, S., (Ed.). Petroleum. Studium Press L.L.C., U.S.A. (in press).

11. **Ramkumar, M.**, Alberti, M. and Fürsich, F.T., 2014 Interpretation of Palaeoclimate, relative sealevel and scale of stratigraphic correlation through Spatio-temporal variations in depositional and diagenetic environments: A case study. In: Sinha, S., (Ed.). Advances in Petroleum Engineering. Studium Press L.L.C., U.S.A. (in press).
12. Jyotsana Rai, **Ramkumar, M.** and Sugantha, T., 2013 Calcareous nannofossils from the Ottakoil Formation of the Cauvery Basin, South India: Implications on Age and Late Cretaceous environmental conditions. In: Ramkumar, M., (Ed.), On a Sustainable Future of the Earth's Natural Resources. Springer-Verlag., Heidelberg. pp.109-122. DOI 10.1007/978-3-642-32917-3\_5.
13. **Ramkumar, M.**, Alberti, M., Fürsich, F.T., Pandey, D.K., 2013 Depositional and diagenetic environments of the Dhosa Oolite Member (Oxfordian), Kachchh Basin, India, based on Petrographic data: Implications on the origin and occurrence of ooids and their correlation with global oolite peak. In: Ramkumar, M., (Ed.). On a Sustainable Future of the Earth's Natural Resources. Springer-Verlag., Heidelberg. pp.179-230. DOI 10.1007/978-3-642-32917-3\_11.
14. **Ramkumar, M.**, Sugantha, T. and Jyotsana Rai., 2013 Facies and granulometric characteristics of the Kallamedu Formation, Ariyalur Group, South India: Implications on Cretaceous-Tertiary Boundary events. In: Ramkumar, M., (Ed.). On a Sustainable Future of the Earth's Natural Resources. Springer-Verlag, Heidelberg. pp.263-284. DOI 10.1007/978-3-642-32917-3\_15.
15. Alberti, M., Fürsich, F.T., Pandey, D.K., **Ramkumar, M.**, 2012 Stable isotope analyses of belemnites from the Kachchh Basin, western India: Paleoclimatic implications for the Middle to Late Jurassic transition. *Facies*. v.58. pp.261-278. *Impact Factor: 1.771*.
16. **Ramkumar, M.**, Alberti, M., and Fürsich, F.T., 2012 Anomalous phosphorous episodes during Callovian-Oxfordian in the Kachchh basin, northwestern India: Implications on palaeoclimate, productivity and weathering. *Inter.Jour.Geochem.* v.72. pp.141-148. *Impact Factor: 1.778*.
17. **Ramkumar, M.**, Stüben, D. and Berner, Z., 2011 Barremian-Danian chemostratigraphic sequences of the Cauvery basin, South India: Implications on scales of stratigraphic correlation. *Gondwana Res.* v.19. pp.291-309. *Impact Factor: 6.659 (Ranked No.1 among geology journals)*.
18. **Ramkumar, M.**, Stüben, D. and Berner, Z., 2010 Hierarchical delineation and multivariate statistical discrimination of chemozones of the Cauvery basin, South India: Implications on Spatio-temporal scales of stratigraphic correlation. *Petrol.Sci.* v.7. pp.435-447. *Impact Factor: 0.534. ISSN:1672-5107*.
19. **Ramkumar, M.**, Anbarasu, K., Sugantha, T., Jyotsana Rai., Sathish, G. and Suresh, R., 2010 Occurrences of KTB exposures and dinosaur nesting site near Sendurai, India: An initial report. *Inter. Jour.Phy.Sci.* v.22. pp.573-584. *ISSN: 0970-9150*.
20. **Ramkumar, M.**, Stüben, D., Berner, Z. and Schneider, J., 2010  $^{87}\text{Sr}/^{86}\text{Sr}$  anomalies in Late Cretaceous-Early Tertiary strata of the Cauvery Basin, south India: Constraints on nature and rate of environmental changes across K-T boundary. *Jour.Earth.Sym.Sci.* v.119. pp.1-17. *ISSN: 0253-4126. Impact Factor: 0.8*.
21. **Ramkumar, M.** and Sathish, G. 2009 Palaeoenvironmental and sequence stratigraphic significance of the occurrence of *Ophiomorpha irregulaire* in the Kallankurichchi Formation, Ariyalur Group, Cauvery Basin, South India. *Palaeont.Stratigr.Facies.* v.17.pp.129-137. *ISBN: 978-3-86012-384-3*.
22. **Ramkumar, M.**, 2006 A Storm event during the Maastrichtian in the Cauvery basin, South India. *Ann.Geol.Penins.Balk.* v.67. pp.35-40. *ISSN: 0350-0608*.
23. **Ramkumar, M.**, Harting, M. and Stüben, D. 2005 Barium anomaly preceding K/T boundary: Plausible causes and implications on end Cretaceous events of K/T sections in Cauvery basin (India), Israel, NE-Mexico and Guatemala. *Inter.Jour.Earth.Sci.* v.94. pp.475-489. *IF: 2.261*.
24. **Ramkumar, M.**, Stüben, D. and Berner, Z., 2004 Lithostratigraphy, depositional history and sea level changes of the Cauvery basin, South India. *Ann.Geol.Penins.Balk.* v.65. pp.1-27. *ISSN: 0350-0608*.
25. **Ramkumar, M.**, 2004 Lithology, petrography, microfacies, environmental history and hydrocarbon prospects of the Kallankurichchi Formation (Upper Cretaceous, Ariyalur Group, south India). *Palaeont. Stratigr.Facies.* v.12.pp.77-100. *ISBN: 3-86012-239-8*.
26. **Ramkumar, M.**, Berner, Z. and Stüben, D., 2002 Multivariate statistical discrimination of selected carbonate petrographic classifications: Implications on applicability of classification systems and predictability of petrographic types. *Inter.Jour.Geochem.*v.62. pp.145-159. *Impact Factor:1.778*.



27. **Ramkumar, M.**, 1999 Lithostratigraphy, depositional history and constraints on sequence stratigraphy of the Kallankurichchi Formation (Maestrichtian), Ariyalur Group, south India. *Ann.Geol.Penins.Balk.* v.63. pp.19-42. *ISSN: 0350-0608.*
28. **Ramkumar, M.**, Chandrasekaran, V.A. and Navada, S.V., 1996 Isotopic signatures of the Kallankurichchi Formation (Lower Maestrichtian) Ariyalur Group, south India - Insights from O and C data. *Ann.Geol.Penins.Balk.* v.60. pp.67-81. *ISSN: 0350-0608.*

#### **PAPERS IN NATIONAL JOURNALS AND CHAPTERS IN BOOKS BY NATIONAL PUBLISHERS**

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