Curriculum Vitae

Name : **Dr M. Jayananda**
Present position : **Senior Professor and Head**
Sir J.C. Bose National Fellow

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Gachibowli, Hyderabad – 500 046, India
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Educational qualifications :

B. Sc. (1980) - Chemistry, Botany, Geology - First class (Bangalore University, India)
M. Sc. (1982) - Geology - First class (Bangalore University, India)
M. Phil. (1985) - Petrology (Bangalore University, India)
Ph. D. (1989) – Petrology and Geochemistry - Thesis adjudicated by Prof. R.C. Newton, University of Chicago, U.S.A

Employment details:

Research Assistant – 14/6/1984 to 1/6/1994
Lecturer – Bangalore University 2/6/1994: to 1/6/2003
Reader – Bangalore University: 2/6/2003 to 1/6/2006
Associate Professor – Bangalore University 2/6/2006 to 31/12/2009
Full Professor – University of Delhi 1/1/2010 to 31/8/2014
Full Professor - University of Hyderabad 1/9/2014 to 25/8/2023
Senior Professor – University of Hyderabad 26/8/2023

Administrative responsibilities:

1. Head, Centre for Earth, Ocean & Atmospheric Sciences, University of Hyderabad, India, (2015-2018).
2. Coordinator - DST (Ministry of Science & Technology, Government of India) funded PURSE program (2014-2018).
3. Member MoU Committee – University of Hyderabad (2019- 2022)

Research focus:
Four decades of focused research on early Earth evolution including origin of habitable continents, evolving tectonics, redox state of oceans and oxygenation of ocean-atmospheric system. I have also focused research on the Cenozoic surface dynamics to address interplay of tectonics, climate, denudation in maintaining high elevation escarpment (Western Ghats) and development drainage patterns of rivers in southern peninsular India.

Mentoring PhD and Post-docs:

No. PhD degree awarded under my guidance – 10

No. of PhD students currently working- 04
Post-doc mentoring: 04

Awards/Fellowships received in recognition of research contributions:

1. Sir C.V. Raman Young Scientist Award (1999) of the Karnataka State (India) for contributions in the field of Geology
2. M.R. Srinivasa Rao Award (2000) of the Geological Society of India for contributions in the field of Petrology related to India.
3. National Mineral Award (2000) of Government of India, Ministry of Coal and Mines, for outstanding contributions in the field of Geochemistry
4. JGSI Radhakrishna Prize (2004) of the Geological Society of India for the best paper published in Journal of the Geological Society of India
5. Bellur Rama Rao Birth Centenary Award (2007) of Geological Society of India for major contributions on Precambrian Geology of India
6. H.H. Read Memorial Gold Medal (2009) of Association of geoscientists and Allied Technologists for contributions on granites
7. JGSI Radhakrishna Prize (2010) for the best paper published in Journal of Geological Society of India
8. **Fellow of the Indian Academy of Sciences (elected 2013)**
9. **Fellow of the National Academy of Sciences, India (elected 2017)**
10. **Fellow of Indian National Science Academy (elected 2020)**
11. **Sir J.C. Bose National Fellowship (2023)**
12. Careers360 2nd Faculty Research Award' for the Most Outstanding Researcher (2023)

Google Scholar Link **:** https://scholar.google.co.in/citations?user=0bsaS_wAAAAJ&hl=en

Google Scholar Citations: **6682** as on May 04, 2024; h-index – **38** and i10 index - **67**

Named among Standford world top 2% scientists in 2021, 2022, 2023

Membership of learned Societies:

Life Fellow – Geological Society of India
Member – International Association of Gondwana Research (IAGR)
Member – American Geophysical Union
Fellow – Indian Society of Applied Geochemists

Editorial responsibilities:

1. Editor-in-Chief – Himalayan Geology (2016-)
2. Editorial Board Member (2019- till date) – *Precambrian Research (Elsevier)*
3. Editorial Board Member (2008 – till date) - *Journal of Asian Earth Sciences (Elsevier)*
4. Editor-in-Chief (2009 - 2013) – *IUGS International Geoscience Journal* ***Episodes***
5. Associate Editor – *Journal of Earth System Science (Springer) – 2013-2016*
6. Editorial Board Member – *Journal of the Geological Society of India (2010-2018)*
7. Regional Editor (2003-2006) - *Gondwana Research (Elsevier)*

Guest Editor - Special issue of Precambrian Research 'Precambrian accretionary orogens' volume, 227, April 2013. pp. 1-426. Elsevier.

Review service to journals:

Nature Scientific Reports
American Journal of Science
Geological Society of America Bulletin
International Geology Review (*Taylor & Francis*)
Journal of Petrology (*Oxford University Press*)
Precambrian Research (*Elsevier*)
Lithos (*Elsevier*)
Gondwana Research (*Elsevier*)
Geoscience Frontiers (*Elsevier*)
Tectonophysics (*Elsevier*)
Geochimica et Cosmochimica Acta (*Elsevier*)
Journal of Asian Earth Sciences (*Elsevier*)
Journal of South American Earth Sciences (*Elsevier*)
Chemie de Erde /Geochemistry (*Elsevier*)
Journal of Earth System Science (*Springer*)
Brazilian Journal of Geology
Journal of the Geological Society of India (*Springer*)
Current Science
International Journal of Earth Sciences (*Springer*)

High impact research projects completed:

1. Indo-French Centre for Promotion of Advanced Research (CEFIPRA/IFCPAR) project 1111-1 'Archaean lithosphere in South India' 1994-1998.

2. CEFIPRA/IFCPAR project 'Accretionary processes of juvenile crust and continental growth in the Eastern Dharwar craton, South India 2000-2003.

3. Department of Science & Technology (DST) project 'Integrated Geological studies along Kuppam-Kanyakumari transect across the deep continental crust of south India 1998-2002.

4. JSPS funded collaborative project (with Prof. T. Kano of Yamaguchi University Japan) Thermal history of Archaean granitoids in East Gondwana continent (1999-2004).

5. JSPS funded project on Archaean surface environments (with Prof. Yasuhiro Kato of University of Tokyo) in the Dharwar craton: Constraints from geochemistry of Banded Iron Formations (2005-2007).

6. Department of Science & Technology (DST), Government of India funded research project 'Chemical petrology of Archaean high grade metasediments from Eastern Dharwar Craton: implications for the evolution of Archaean continental crust' (2005-2010).

7. DST funded research project Synplutonic mafic dykes from the late Archaean granite plutons of the Dharwar craton, southern India: implications for magma chamber processes, evolving lithospheric mantle and cratonization of Archaean crust (2008 -2012).

8. DST funded multidisciplinary transect research project 'Dynamics of the Archean lithosphere along Kasaragod-Kurnool corridor (2009-2013).

9. Co-Leader: UNESCO-IGCP funded global project 'The changing Early Earth' (2011-2015).

10. UGC funded research project 'Geology and Geochemistry of Nagamangala and Kunigal greenstone belts, Dharwar craton (2013-2015).

11. CEFIPRA/IFCPAR collaborative research project 'Cenozoic denudation of south India' (2013-2016).

12. Co-Leader UNESCO-IGCP project 637: Global Heritage Stone Resource (2015-2017).

13. Collaborative project *'Zircontinent'* funded by Agence National de la Research, France (2018-2020).

Professional experience/International Fellowships/invited positions/Honors:

1. Visiting scientist at Oxford Polytechnic, Oxford (U K) from Oct 1986- Feb 1987.
2. Invited Maitré de conference (Associated Professor) at Universite de Rennes I (France) from April 1991 to Oct. 1991
3. Invited Professor at Université de Rennes I (France) from July 1993 to March 1994.
4. Visiting Scientist (IFCPAR) at Université de Rennes I, Université de Blais Pascal, CEREGE - Université Aix Marseille III (France) 1995, 1996, 1997, 1998, 2000, 2001, 2002, and 2003.
5. Invited Professor at Universite de Rennes I (France) from June to July 1999.
6. Japanese Society for Promotion of Science (JSPS) Fellow at Yamaguchi University (Japan) from October to December 1999.
7. Visiting Scientist (JSPS) at Yamaguchi University (Japan) Oct 2002 to Dec.2002.
8. Visiting Scientist at Universite de Paris Sud, Orsay (France) during August-September 2004
9. Visiting scientist (JSPS) at Yamaguchi University (Japan) during October – November 2004
10. Invited Professor at Universite de Paris XI- Orsay during 15th May-15th June 2005.
11. Invited Professor Universite de Rennes I (France) –16th June 2005 to 23rd July 2005.
12. Visiting Scientist (JSPS) – University of Tokyo (Japan) – October 2005
13. Visiting Scientist (JSPS) – Yamaguchi University (Japan) – 29th October – 26th November 2006
14. Visiting Scientist (JSPS) – Yamaguchi University (Japan) – 31th October – 12th November 2007
15. IUGS Visiting Scientist at Chinese Academy of Sciences, Beijing (China) during May 2009
16. Official delegate at UNESCO-IUGS Executive meeting at Paris during February 2011
17. IRD Visiting Professor at CEREGE, Universite de Paul Cezanne Aix Marseilles, France during June –July 2011
18. Visiting Research Fellow at National Taiwan University during May to July 2012.

19. CEFIPRA visiting Scientist at IRD-CEREGE (Universite Aix Marseille III), France during June-July 2014.
20. Visiting Scientist, China University of Geosciences, Beijing China, October 2016.
21. Visiting Scientist, Universite Clermont Auvergne (France), June-July 2018.

Other research responsibilities:

1. Member - IUGS Publication Committee (2009-2012)
2. Convener -Indian National Committee- IGCP-SIDA Project 599
3. Member – Research Advisory Committee, Wadia Institute of Himalayan Geology
4. Member – CSIR Research advisory committee of Earth and Environmental Sciences and sub-committee on Disaster Preparedness (2016-)
5. Member – SERB- Fast Track Young Scientist Committee (2015-2018)
6. Council Member – Geological Society of India (2004-2007, 2016-2019)
7. Member- Geoscience Advisory Council, Ministry of Mines, Govt. of India (2015-2018).
8. Member – STAR committee, Ministry of Human Resource Development, Govt. of India (2019-2020).
9. Expert member in Swarna Jayanthi Fellowship Committee
10. Expert Member DST-FIST Committee (2020- 2022)
11. Expert Member – Bhatnagar Prize Committee of CSIR - 2021
12. Expert Member – Exploration Research Advisory Committee in Atomic Mineral Directorate for Exploration & Research, Department of Atomic Energy, Govt. of India (2021-).
13. Member – Governing Body of the Wadia Institute of Himalayan Geology (2021-2024)
14. Member – INSA Fellowship Sectional Committee (2022-2024)
15. Member – Indian Academy of Sciences Fellowship Sectional Committee (2022-2024)

Outreach program participated:

Mentor – DST-INSA Inspire program
Mentor for NCERT Leadership Institute – Science program for High School Teachers.

International Symposia/Field workshops organized:

1. 2010 – Organized International Field Workshop on Mafic Dyke swarms in the Dharwar craton during 29-1-2010 to 4-2-2010.
2. 2010 – Co-convener of the International Dyke Conference held in Varanasi during 5-2-2010
3. 2011 – Organized International symposium on Precambrian accretionary orogens at University of Delhi and associated Field workshop in the Dharwar craton during 2-11 Feb. 2011.
4. 2019 – Organized National Seminar on ‘Evolving Early Earth’ 1-2 March 2019.

International/National Seminars and workshops attended:

1. 1988- Attended Indo-American workshop on the deep continental crust of south India.
2. 1989 - Attended National seminar and VIIth Indian Geological Congress at Bangalore.
3. 1990 - Attended National Seminar on Precambrian geology at University of Madras.
4. 1995 - Attended National workshop on continuing crustal deformation of the peninsular shield at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
5. 1996 - Official delegate to UNESCO IUGS-IGCP 368 International Field workshop in Trivandrum
6. 1996- Participated in the International symposium on charnockites and granulite facies rocks in Madras
7. 1996 - Invited scientist - DST sponsored National Group Discussion Workshop to formulate research projects on N-S Peninsular tract at Mysore.
8. 1996 - Invited scientist National symposium on Quaternary paleogeography of Arabian sea and General session of the Annual meeting of the Geological Society of India at Mangalore
9. 1997 - Participated in the international conference on isotopes in the solar system at Physical Research Laboratory, Ahmadabad
10. 2000 - Participated in the and National symposium on milestones in Petrology in the end of millennium & Annual convention of the Geological Society of India at Varanasi
11. 2002 – Official delegate – Indian National Science Congress at Bangalore
12. 2004 - Official delegate and Member organizing committee – International Field workshop 'Tectonics and Evolution of Precambrian Southern Granulite Terrain, India and Gondwana Correlation, 18th Feb to 25th Feb. 2004.
13. 2004 – Official delegate at International Geological Congress at Florence (Italy) from 19th August –28th August 2004.
14. 2004- Official delegate and Convener – International Symposium on Gondwana Evolution and Dispersal at Kochi University (Japan) during 12th November- 15th November 2004.
15. 2005 –Organized two days DST sponsored National Group Discussion Workshop to define themes of integrated research on the Precambrian lithosphere along Kasargod-Kurnool E-W geotransect in the Dharwar craton on 28-29th April 2005.
16. 2006- Attended Japanese Antarctic meeting during 24-25th November at Yamaguchi University, Japan
17. 2007 – Invited as an expert at DST Program Assessment & Monitoring Committee of Deep continental Studies at Sri Venkateshwara University Tirupati during 12-14th Sep. 2007.
18. 2007- Attended Third international symposium on Geological Anatomy of East and South Asia and IGCP meeting at Delhi University and field workshop in Himalayas during 8-14th October 2007.
19. 2007- Delegate at 4th International Symposium on Gondwana to Asia and 2007 IAGR Annual Convention at Fukuoka, Japan during 9-11th November 2007.

20. 2007-Invited keynote speaker at international symposium on crustal evolution sedimentary processes and metallogeny at Dharwar, India on 29-30th November 2007.
21. 2008- Invited keynote speaker and Chairman of the session at International conference on 'Tectonics of Indian sub-continent' at Indian Institute of Technology Bombay, Mumbai on 3-5th March, 2008.
22. 2008 – Invited keynote speaker at International Geological Congress at Oslo (Norway) during 6-14th August 2008
23. 2010- Invite keynote speaker at 6th International Dyke Conference, Varanasi, India
24. 2011 - Invited Speaker at AMD seminar of Precambrian continental crust and its resources, Bangalore, India, 13-14th Oct 2011.
25. 2012 - Official invited delegate - 34th International Geological Congress, Brisbane, Australia
26. 2014 – Invited Speaker at National Symposium on Precambrian continental evolution at Presidency University 7-8th November, Kolkata.
27. 2015 – Invited Speaker on short course 'Geochronology- challenges and possibilities' at Indian Institute of Science, 2-7 Feb. 2015.
28. 2015 – Invited speaker and mentor at DST –Inspire camp, Kumaun University, Nainital, 2-3rd May.
29. 2015 – Invited official delegate at 30th Himalaya Karakoram Tibet (HKT) workshop, Dehra Dun, India, 6-8th October 2015.
30. 2016 – Official delegate at 36th International Geological Congress, Cape Town, South Africa. August 27th to September 4th, 2016.
31. 2017 – Invited lecture at Leadership Institute, Hyderabad.
32. 2018 – Invited speaker at Academy Science Education panel lecture series at University of Madras, Chennai. Petrology, whole rock geochemistry and Nd isotope study of TTG-Peninsular gneisses and ultramafic rocks in the Hassan-Sira crustal corridor of the Dharwar craton along Kasaragod-Kurnool transect: Implications for dynamics and evolution of Archaean lithosphere.
33. Invite special lecture at Laboratoire Magmas et Volcans, Universite Clermont-Auvergne, France, 28th June 2018.
34. Invited speaker at 2018 convention and 15th International Conference on Gondwana to Asia 23-28, Xiang, China September 2018.
35. Invited Speaker at Banaras Hindu University on Mantle petrology on 4-6th October 2018.
36. Invited speaker at Nagoya and Nîgata Universities under auspices of Japan -India (JSPS-DST) forum for Advanced study meeting during 7-16 March 2019.
37. Invited special lecture on early earth dynamics and craton formation at IISER Bhopal on 3/4/2019.
38. Invited Speaker at International Webinar on Lithosphere of the Fennoscandian and the Indian Shields: formation from Archean to Recent (24-25th February 2021).
39. Invited speaker at 6th National-Geoscholars meeting at Leh on 6-10th June 2022 and delivered talk 'Archean and Phanerozoic hot orogens: Insights from the Neoarchean Eastern Dharwar Craton and Tibet for orogenic plateau formation.

40. Azadi ka Amrut Mahotsav invited lecture entitled 'Evolving Archean Earth and origin of habitable continents: Insights from the Dharwar craton' delivered on 8/7/2022 at Wadia Institute of Himalayan Geology, Dehra Dun.
41. Invited talk on 'Global Environmental and climate change' in 2-day workshop on Climate change and clean energy during 18-19 December 2023 at University of Hyderabad.

Publications in peer reviewed SCI journals:

1. Jonas Kaempf, Chris Clark, Tim E. Johnson, **M. Jayananda**, Julian Alfing, Sajeev Krishnan and Martin Hand., 2024. Archean polymetamorphism in the Central Dharwar craton, Southern India. Journal of Metamaorphic Geology. Wiley.
2. Julie Mallens, Martin Guitreau, **M. Jayananda**, Abdelmouhcine Gannoun, Claire Fonquernie, Emmy Voyer, K.R. Aadhiseshan 2024. Mesoarchean continental collision unraveled in the Western Dharwar Craton (India). (PNAS *under review*).
3. Haito Ma, Pengjie Cai, **M. Jayananda**, Dongyang Lian, K.R. Aadhiseshan, 2024. Primary magma and mantle source compositions of chromitites in Mesoarchean Niggihalli greenstone belt, India. **Precambrian Research** (*under review*). Elsevier.
4. Sucharita Pal, **M. Jayananda**, Devleena Tiwari, J.P.Shrivastava, M.Satyanarayanan, A.S.Maurya, J.P. Gautam, 2024. Paleoenvironmental shift across Cretaceous-Paleogene boundary, insights from multi-proxy chemo stratigraphy of the Mahadeo–Cherrapunji section,Meghalaya, India. **Journal of Sedimentary Environments**, Elsevier. https://doi.org/10.1007/s43217-024-00171-z
5. Ming-Xian Wang, M. Santosh, M. **Jayananda,** Cheng-Xue Yang, Tarun T. Thomas, Sung Won Kim., 2023. Trondhjemites from the Western Dharwar Craton, Southern India: Implications for Mesoarchean crustal growth. Lithos, 462–463 (2023) 107410. https://doi.org/10.1016/ j.lithos.2023.107410, Elsevier.
6. **M.Jayananda**., M. Guitreau., Aadhiseshan, K.R. Miyazaki, T., Sun-Lin C., 2023. Origin of the oldest (3600-3200 Ma) cratonic core in the western Dharwar craton, Southern India: Implications for the evolving tectonics of the Archean Earth. *Earth Science Reviews*, 104278, https://doi.org/10.1016/j.earscirev.2022.104278. Elsevier.
7. Tarun Kumar., **Jayananda., M**., Nasipuri, P., Martin., G., Aadhiseshan., K.R., Balaji Rao., S.V., Satyanarayanan, M., 2022. Tectono-thermal history of the Balehonnur shear zone, Western Dharwar Craton (Southern India): *Lithosphere*, V. 2022, Article ID 4167477, 21 pages, https://doi.org/10.2113 2022/4167477. Geoscience World.
8. Pal, S., **Jayananda, M**., Shrivastava, J.P., Meenakshi., 2022. K-Pg boundary transition and attendant late Maastrichtian-early Danian shelf facies of the Langpar formation, Meghalaya, India. *Geosystems and Geoenvirornment*, 1 100050. P.1-15. http://creativecommons.org/licenses/by-nc-nd/4.0/. Elsevier

9. Słaby, E, Anczkiewicz, R, Gros, K, Simon, K., Kozub-Budzyń, G.A., Birski, L., Martin, H., **Jayananda, M**., Moyen J-F., Matyszcza, M., Koziarska, M., Deput, E., 2021.High-temperature fluids system in the Neoarchaean – Paleoproterozoic transition: an insight from Closepet titanite chemistry and U-Pb dating, Dharwar craton, India. *Lithos*, 386–387 (2021) 106039. https://doi.org/10.1016/j. lithos.2021.1060390024-4937/© Elsevier.

10. Abdul Kalam, S., Balaji Manasa Rao, S.V., **Jayananda, M**., Venugopal Rao, S. 2020. Standoff femtosecond filament-induced breakdown spectroscopy for classification of geological materials. *J. Analytical Atomic Spectrum.*, 35, 3007–3020. Royal Society of Chemistry. doi: 10.1039/d0ja00355g.

11. J.Y. Wang., M. Santosh, **M. Jayananda**., K.R Aadhiseshan., 2020. Bimodal magmatism in the Eastern Dharwar craton, southern India: Implications for Neoarchean crustal evolution. *Lithos*. https://doi.org/10.1016/j.lithos.2019.105336. Elsevier

12. **M. Jayananda**., K.R. Aadhiseshan., M. Kusiak., S. Wilde., K. Sekhamo., Guitreau, M., Santosh., Gireesh, R.V., 2020. Multi-stage crustal growth, and Neoarchean geodynamics in the Eastern Dharwar Craton. *Gondwana Research Focus*. V.78, 228-260. https://doi.org/ 10.1016/j.gr.2019.09.0051342-937/c 2019. Elsevier

13. A. Jean, A. Beauvais1 D. Chardon N. Arnaud, **M. Jayananda**., P.E. Mathe., 2020. Weathering history and land scape evolution of Western Ghats (India): 40Ar/39Ar dating of supergene K-Mn oxides. *Journal of Geological Society of London*. DOI. https://DOI.org./10.1144/jgs2019-048.

14. **M. Jayananda.,** Dey, S., Aadhiseshan, K.R., 2020. Evolving early Earth: Insights from Peninsular India. *Springer Special Publication 'Geodynamics of the Indian Plate: Evolutionary Perspectives'* Eds. Neal Gupta and S. K. Tandon. Chapter-2 Springer Geology, https://doi.org/10.1007/978-3-030-15989-4_2, pp. 5-99. © Springer Nature Switzerland AG 2020. Springer

15. **M. Jayananda**., Guitreau, M., Tarun Thomas, T., Martin, H., Aadhiseshan, K.R., Gireesh, R.V., Moyen, J-F., Peucat, J-J. 2019. Geochronology and Geochemistry of 3.0 Ga Bellur-Nagamangala potassic granites: Implications for crustal evolution in the Western Dharwar craton, Southern India Geological Society, London, Special Publications, 489, https://doi.org/10.1144/SP489-2018-125.

16. Słaby, E.W., Gros K. Förster H.–J., Wudarska A., Birski Ł., Hamada M., Götze J., Martin H., **Jayananda M**., Moyen J.–F., Moszumańska I. 2019. Mineral–fluid interactions in the late Archaean Closepet granite batholith, Dharwar craton, southern India. *Geological Society of London Special issue.* DOI: https://doi.org/0. 1144/ SP489-2019-287.

17. **M. Jayananda**, M. Santosh, K.R. Aadhiseshan., 2018. Formation of Archean continental crust in the Dharwar craton, southern India. *Earth Science Reviews*, v.181, pp 12-42. DOI. https://doi.org/10.1016/j.earscirev.2018.03.013. Elsevier.

18. Söderlund, U., Bleeker, W., Demirer, K., Srivastava, R.K., Hamilton, M., Nilsson, M., Pesonen, L., Samal, A.K., **Jayananda, M**., Ernst, R., Srinivas, M., 2018. Emplacement ages of Paleoproterozoic mafic dyke swarms in eastern Dharwar craton, India:

implications for Paleo-reconstructions and evidence for a ~30° internal block rotation. *Precambrian Research,* 329;26-43. https://doi.org/10.1016/j.precamres. 2018.12.017 Elsevier.

19. Mohanty, N., Singh, S.P., Satyanarayanan, M., **Jayananda, M**., Korakoppa M M, Hiloidari, S., 2018. Chromian spinel compositions from Madawara ultramafics, Bundelkhand Craton: Implications on petrogenesis and tectonic evolution of the southern part of Bundelkhand Craton, Central India. *Geological Journal*. DOI: 10.1002/gj.3286. John Wiley & Sons.

20. N. Bonnet, A. Beauvais., N. Arnaud., D. Chardon., **M. Jayananda.,** 2016. Post-Deccan lateritic weathering history of south India from cryptomelane $^{40}Ar/^{39}Ar$ dating. *Chemical Geology*, doi:10.106/j-chemgeo.2016.04.018 Elsevier.

21. **M. Jayananda**, R.A. Duraiswami, R.V. Gireesh, K.R. Aadhiseshan, B.C. Prabhakar, Kowe-u Kafo, Tushipokla, R. Namratha 2016. Physical volcanology and geochemistry of Paleoarchean komatiite lava flows from the western Dharwar craton, southern India: Implications. for Archean mantle evolution and continental growth . *International Geology review*, http://dx.doi.org/10.1080/00206814.2016.1172350. Taylor & Francis Publishers

22. Hashizume, K., Pinti, D.L., Orberger, B., Cloquest, C., **Jayananda**, M., Soyama, H 2016. Oxygen-driven biological switch as a cause of laminations in a Precambrian iron formation. *Earth and Planetary Science Letters*, doi: 10.1016/j.epsl.2016. 04.023 Elsevier.

23. Beauvais, A., Bonnet, N.J., Chardon, D., Arnaud, N., **Jayananda**, M., 2016. Very long-term stability of passive margin escarpment constrained by ^{40}Ar-^{39}Ar dating of K-Mn oxides. *Geology*, doi:10.1130/G37303, Geological Society of America.

24. **M.Jayananda**., D. Chardon, J-J Peucat., Tushipokla, C.M. Fanning., 2015. Paleo-to Mesoarchean TTG accretion and continental growth in the western Dharwar craton, southern India : Constraints from SHRIMP U-Pb zircon geochronology, Nd-Sr isotopes and whole rock geochemistry. *Precambrian Research*. http:/dx.doi. org. 10.1016.J.Precamres.2015.07.015. 1-28. Elsevier

25. R.K. Srivastava., **M. Jayananda**., Gulab Gautam., Amiya K. Samal., 2014. Geochemistry and petrogenesis of ~2.21-2.22 Ga N-S to NNW-SSE trending Kunigal mafic dyke swarm from the eastern Dharwar craton, southern India: implications for existence of Paleoproterozoic large igneous province and supercraton Superia. *Mineralogy and Petrology* (Springer) http://dx.doi.org/10.1007/s00710-140327-5. Springer

26. S. Bhattcharya., Panigrahi, M.K**., Jayananda, M**., 2014. Mineral thermobarometry and the fluid inclusion studies on the Closepet granite, Eastern Dharwar craton: Implications to emplacement and late-stage evolution of fluids. *Journal of Asian Earth Sciences* (Elsevier) http:/dxdoi.org/10.1006/J.jseaes2014.04.004. v.91: 1-18. Elsevier

27. **Jayananda, M**., Gireesh, R.V., Kowete-u Sekhamo, Miyazaki, T., 2014. Coeval felsic and mafic magmas in Neoarchean magmatic arcs, Dharwar craton: Evidence from mafic

magmatic enclaves and synplutonic mafic dykes. *Jour. Geol. Soc. India* V.84: pp.5-28. Springer

28. N. Bonnet., A. Beauvais., N. Arnaud., Chardon., D., **M. Jayananda**., 2014. First 40Ar/39Ar dating of intense Paleogene lateritic weathering in peninsular India. *Earth and Planetary Science Letters*, Elsevier Science,386, 126-137. http://dx.doi.org /10.1016/10-16/J.epsl.2013.11.002. Elsevier

29. Sushmita Gupta, **M. Jayananda**., Fareeduddin., 2014. Geochemistry of tourmaline from Archean G.R Halli gold deposit, Chitradurga greenstone belt, Dharwar craton, India: Implications for gold metallogeny. *Geoscience Frontiers*. http://dx.doi.org/ 10.1016/j.gsf.2013.12.004. Elsevier

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