Name	**DR. M. LALITHA**
Date of birth	10/07/1985
Designation	Senior Scientist
Qualification	Ph.D (Soil Science &Agricultural Chemistry)
Email id	Lalitha.M@icar.gov.in mslalit@yahoo.co.in

Educational Qualifications

- Ph.D (Soil Science &Agricultural Chemistry), TNAU, Coimbatore (2011)
- M.Sc (Soil Science &Agricultural Chemistry), TNAU, Coimbatore (2008)
- BSc (Agriculture) Agriculture College and Research Institute, Madurai (2006)

Professional Experience

- Senior scientist (RGP-9000) (2023 to till date)
- Senior scientist (RGP-8000) (2020-2023)
- Scientist (RGP-7000) (2015-2020)
- Scientist (2011 to 2015)

Research Areas

- Land resource inventory and mapping
- Land degradation assessment
- Soil and water quality assessment
- 4. Spectral assessment of soil properties

International Experience – Nil

Awards

i IPI Junior Research Fellowship
ii. DCSCMS- Senior Research Fellowship (Remote sensing for agricultural applications)
iii. Outstanding Young Scientist Award-2021 by ICAR-NBSS&LUP
iv. Best paper awards – 10

Honours/Recognitions

- Editor- Journal of Indian Society of Soil Science

Ten Best Research Papers along with NAAS Rating-2026

No	Publications	NAAS rating
1	**Lalitha, M.** and Nair, K. M. and Srivastava, Rajeev and Kumar, K. S. Anil and Prasad, Jagdish and Parvathy, S. and Ramamurthy, V. 2026. Refining the Walkley–Black Correction Factor for Soil Organic Carbon Estimation in Highly Weathered Tropical Soils of Western Ghats. Journal of Plant Nutrition and Soil Science. https://doi.org/10.1002/jpln.70090	8.8
2	**Lalitha, M.,** Parvathy, S., Koyal, A., Hegde, R., & Ramamurthy, V. (2026). Impact of Calcium Carbonate Solubility on Estimating Soil Exchangeable Cations in Calcareous Soils Using 1N Ammonium Acetate Method. Communications in Soil Science and Plant Analysis, 57(5), 480–490. https://doi.org/10.1080/00103624.2026.2617299	7.4
3	**Lalitha, M**., Kalaiselvi, B., Dharumarajan, S., Anil Kumar, K. S., Ramesh Kumar, S. C., Srinivasan, R., Ramamurthy, V., & Hegde, R. (2024). Determining soil quality indicators for alluvial plains in the semi-arid tropics. Soil Use and Management, 40, e12929. https://doi.org/10.1111/sum.12929	9.7
4	**Lalitha, M**., Dharumarajan, S., Gomez, C., Hegde, R., Koyal, A., Khandal, S., Shashikumar, B. N., & Parvathy, S. (2022). Spectral assessment of soil properties	7.8

	in semi-arid tropical regions of southern Karnataka Plateau. Archives of Agronomy and Soil Science. https://doi.org/10.1080/03650340.2022.2134565	
5	**Lalitha, M.,** Dharumarajan, S., Khandal, S., Koyal, A., Parvathy, S., Kalaiselvi, B., Anil Kumar, K. S., & Hegde, R. (2022). Vertical distribution of soil organic and inorganic carbon under silvipastoral system in a dry semiarid agro-ecological region, Tamil Nadu, India. Range Management & Agroforestry, 43(1), 57–65.	6.4
6	**Lalitha, M**., Kalaiselvi, B., Dharumarajan, S., Khandal, S., Koyal, A., Kaliraj, S., & Hegde, R. (2021). Hydrochemical characterization and groundwater quality in Cauvery deltaic fluvial plains of Southern India. Environmental Science and Pollution Research. https://doi.org/10.1007/s11356-021-13467-8	11.0
7	**Lalitha. M.,** Hegde, R., S. Dharumarajan, and Arti Koyal. 2021. Soil Fertility Evaluation in Rainfed Regions of Different Agro-Climatic Zones of Karnataka, India. ***Agric Res***. https://doi.org/10.1007/s40003-021-00561-zS	7.1
8	**Lalitha Manickam**., Dharumarajan, S., Khandal, S., & Hegde, R. (2021). Modeling and mapping of salt-affected soils through spectral indices in inland plains of semi-arid agro-ecological region. Journal of the Indian Society of Remote Sensing. https://doi.org/10.1007/s12524-021-01321-w	8.2
9	**Lalitha M**., Dharumarajan S, Suputhra A, Kalaiselvi B, Hegde R, Reddy RS, Prasad CRS, Harindranath CS, Dwivedi BS. 2021. Spatial prediction of soil depth using environmental covariates by quantile regression forest model. *Environ Monit Assess*. 193(10):660. https:// doi.org/10.1007/s10661-021-09348-9	9.0
10	**Lalitha, M**., Anil Kumar, K. S., Nair, K. M., Dharumarajan, S., Arti Koyal, Shivanand Khandal, Kaliraj S. & Rajendra Hegde. 2021. Evaluating pedogenesis and soil Atterberg limits for inducing landslides in the Western Ghats, Idukki District of Kerala, South India. *Natural Hazards*, https://doi.org/10.1007/s11069-020-04472-0	9.7

Total Publications (Peer-reviewed journals only)
International: 49
National: 22

Google Scholar link: https://scholar.google.com/citations?user=SeIRLc8AAAAJ&hl=en
Research Gate link: https://www.researchgate.net/profile/Lalitha-Manickam