



Dr.JAYESHLAL G. S.

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### Education Qualification

Degree	Subject	Year of Passing	University
Ph.D.	Opto – Electronics (Physics)	2018	University of Kerala
M.Phil.	Photonics	2011	University of Kerala
B.Ed.	Physical Science	2009	University of Kerala
M.Sc.	Physics	2007	M. G. University Kottayam
B.Sc.	Physics	2005	University of Kerala

## Research Interests

- Laser Remote Sensing (LIDAR)
- Microphysical and Optical characterization of clouds aerosols
- Space born and Ground based lidar data Evaluation

## List of International & National Publications

1. "Seasonal and Optical Characterisation of Cirrus Clouds over Indian Sub-Continent Using LIDAR"  
*AIP Conf. Proc.* 1620 (2014),179-184. (AIP)  
<http://dx.doi.org/10.1063/1.4898237>
2. "Lidar investigations on the structure and microphysical properties of cirrus at a tropical station Gadanki (13.5° N and 79.2° E), India."  
*Proceedings of SPIE*,9876(2016), 98761U(1 – 8).  
doi: 10.1117/12.2222294  
**ISSN No:0277-786X**
3. "Correlation analysis of lidar derived optical parameters for investigations on thin cirrus features at a tropical station Gadanki(13.5° N, 79.2° E)." *Indian Journal of Radio &Space Physics; IJRSP-353* Vol 46, March 2018, pp 9-19
4. "Cirrus Cloud -Temperature Interactions Over A Tropical Station, Gadanki From Ground Based And Satellite Lidar Observations." *AIP Conf. Proc.*, 1620 (2014),332-338  
<http://dx.doi.org/10.1063/1.4898261>
5. "Lidar Studies On The Optical Characteristics Of High Altitude cirrus Clouds At A Low Latitude Station, Gadanki (13.5N, 79.2E) India."  
*The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL-8 (2014), 253-256.  
doi:10.5194/isprsarchives-XL-8-253-2014
6. "Climatology Of Thin Cirrus Clouds at Gadanki (13.5°N, 79.2°E) Using Ground Based Lidar And Satellite Based Measurements." *The*

*International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL-8 (2014), 253-256.

doi:10.5194/isprsarchives-XL-8-283-2014

7. "Lidar investigations on the optical and dynamical properties of cirrus clouds in the upper troposphere and lower stratosphere regions at a tropical station, Ggadanki, India (13.5° N, 79.2° E)." *Journal of Applied Remote Sensing*, 8 (2014), 083659(1-21).  
DOI: 10.1117/1.JRS.8.083659
8. Optical properties of cirrus clouds in the tropical tropopause region during two contrasting seasons  
*Indian J. of Radio & Space Phys.* 44(2015), 155-166.  
**ISSN No: 0367-8393**
9. Motty, G.S., Satyanarayana, M., Jayeshlal, G.S., & Pillai, V.P.M., "Climate sensitivity characteristics of tropical cirrus clouds using lidar measurements." *J. Appl. Remote Sens.* 10(4) (2016), 046005(1 - 8).  
doi: 10.1117/1.JRS.10.046005.
10. "Lidar studies on climate sensitivity characteristics of tropical cirrus clouds." *Proc. of SPIE*, 9876 (2016), 98761X (1 - 8). doi: 10.1117/12.2223301
11. "Macro-physical, optical and radiative properties of tropical cirrus clouds and its temperature dependence at Gadanki (13.5° N, 79.2° E) observed by ground based lidar". *Indian Journal of Radio & Space Physics*, 45 (2016), 133-147.
12. "Investigation of tropical cirrus cloud properties using ground based lidar measurements". *Proc. of SPIE*, 9876(2016), 9876OP (1-10).(SPIE)  
doi: 10.1117/12.2222314
13. "Lidar Observed structural characteristics of higher altitude cirrus clouds over a tropical site in Indian subcontinent

region." *Journal Of Atmospheric and Solar-Terrestrial Physics* 179(2018) 367-377 (ELSEVIER)

### **Training Attended**

1. DST SERB School on Basic Atmospheric Science, Sponsored by Department of Science and Technology. From 4 June 2014 to 28 June 2014.
2. Instructional Workshop on LATEX Organized by Department of Mathematics University of Kerala. From 18 March 2013 to 22 March 2013.