**SREE KRISHNA COLLEGE**

**DEPARTMENT OF PHYSICS**

1. **List of Publications (from 2017)**

**Journal Publications**

1. Resmi CT, Fei Ye, **Nishanth T**, Satheesh Kumar MK, Balachandramohan M, Jianlin Hu, Valsaraj KT.Variation of trace gases in Kannur Town, a coastal South Indian city. Environmental Challenges Accepted for publications.
2. Resmi CT, **Nishanth, T, Vijoy P S.,** Satheesh Kumar MK, Balachandramohan, M, (2021) Analysis of long term variation of the total column and tropospheric ozone over the Indian region. Atmospheric and Climate Sciences, 11,194-213.doi.org/10.4236/acs.2021.111013
3. Resmi CT, **Nishanth, T,** Satheesh Kumar MK, Balachandramohan, M, Valsaraj KT, (2020). Annular solar eclipse on 26 December 2019 and its effect on trace pollutant concentrations and meteorological parameters in Kannur, India: a coastal city. Asian Journal of Atmospheric Environment. 14 (3), 290-307, [doi.org/10.5572/ajae.2020.14.3.290](https://doi.org/10.5572/ajae.2020.14.3.290)
4. Resmi CT, **Nishanth, T**, Satheesh Kumar MK, Manoj MG., Balachandramohan, M, Valsaraj KT, (2020) Air quality improvement during triple-lockdown in the coastal city of Kannur, Kerala to combat Covid-19 transmission, PeerJ, 8:9642,  [doi.org/10.7717/peerj.9642](https://doi.org/10.7717/peerj.9642)
5. Resmi CT, **Nishanth, T,** Satheesh Kumar MK, Balachandramohan, M, Valsaraj KT (2020) Long-Term Variations of Air Quality Influenced by Surface Ozone in a Coastal Site in India: Association with Synoptic Meteorological Conditions with Model Simulations. Atmosphere, 11, 193; doi:10.3390/atmos11020193
6. Resmi CT, **Nishanth, T,** Satheesh Kumar MK, Balachandramohan, M, Valsaraj KT. Temporal Changes in Air Quality during a Festival Season in Kannur, India. Atmosphere 2019, 10, 137; doi:10.3390/atmos10030137
7. Hrudya PH, Varikoden H, **Vishnu R**, Kuttippurath J (2020) Changes in ENSO-monsoon relations from early to recent decades during onset, peak and withdrawal phases of Indian summer monsoon. Clim Dyn 55:1457-1471 <http://doi.org/10.1007/s00382-020-05335-x>
8. Hrudya PH, Varikoden H, **Vishnu R** (2021) Changes in the relationship between Indian Ocean dipole and Indian summer monsoon rainfall in early and recent multidecadal epochs during different phases of monsoon. Int J Climatol 41:305-318. <http://doi.org/10.1002/joc.6685>
9. Hrudya PH, Varikoden H, **Vishnu R** (2021) A review on the Indian Summer Monsoon Rainfall, Variability and their Association with ENSO and IOD. Meteorol Atmos Phys 133:1-14. <http://doi.org/10.1007/s00703-020-00734-5>
10. Hrudya PH, Varikoden H, **Vishnu R** (2021) Regional variabilities of rainfall and convective parameters during the summer monsoon period: Their linkage with El Niño Southern Oscillation. Meteorol Atmos Phys 133: 1223-1232*.* <http://doi.org/10.1007/s00703-021-00802-4>.
11. Hamza Varikoden, Hrudya PH, **Vishnu R**, Kuttippurath J. Changes in the ENSO-ISMR relationship in the historical and future projection periods based on coupled models. Int J Climatol (accepted)

**Book Chapters**

1. Resmi CT, **Nishanth, T,** Satheesh Kumar MK, Balachandramohan, M, Valsaraj KT, (2021). Assessment of Extreme Fireworks Episode in a Coastal City of Southern India- Kannur as a Case Study. Atmospheric Processes, Phenomena and its Related Extremities, Springer Nature Publications
2. **Geetha K** , Fluorescent Copper Nanoparticles – Opportunities and Challenges, *Recent Advances in Nanotechnology and Material Sciences*, pp201-209, UGC-HRDC, University of Calicut, 2018.(ISBN 978-3-16-148410-0)
3. **Vijoy P S,** Synthesis of Inorganic Nano Particles and Investigation of their size and structure, *Recent Advances in Nanotechnology and Material Sciences*, pp104-114, UGC-HRDC, University of Calicut, 2018.(ISBN 978-3-16-148410-0)

**Conference Papers**

* + - 1. Hrudya, P. H., Varikoden, H., **Vishnu, R.** (2018, January). Impact of lower

tropospheric stability on the regional variability of Indian summer monsoon rainfall. Paper accepted for presentationat 42nd **COSPAR, (Committee on Space Research) Scientific assembly, United States of America**

* + - 1. Sucrose mediated synthesis and Characterization of Fluorescent Copper nanocolloids, Meena A G, Sakeeba P V, Sreeja T D and **Geetha K,** Annual Physics Symposium, St. Teresa’s College, Ernakulam, 7-8 December 2017
			2. Green Synthesis and characterization of Silver and Copper Nano particles, C. Simi Jose T. P. Kavya, T. D. Sreeja, P.S. Vijoy and **K. Geetha**, The Annual Physics Symposium, St. Teresa’s College, Ernakulam
			3. Biosynthesis and characterization of Silver nanoparticles, Kavya T P, Simi Jose C, Sreeja T D, Vijoy P S, **Geetha K,** National Seminar on Nanophotonics, Department of Physics, St. Thomas College, Thrissur, 10 Jan 2017
			4. Low Permittivity Borate Based Glass Free LTCC Ceramic for LTCC Applications, K M Manu, A Shahina, N Neelima P S Vijoy and Sreeja T D, Annual Physics Symposium 2017, St. Teresas’ College, Ernakulam,2-3 February 2017.
1. **Seminars Organised by Department (from 2017 onwards)**
2. ‘Suvarnorjam’ (in connection with Golden Jubilee celebration of Department of Physics), 18th and 19th December 2017
3. Two day National Seminar on Advances in Applied Physics and Applications (sponsored by Kerala State Council for Science , Technology & Environment) , 26th and 27th September 2018
4. One day Work shop on LaTex – Hands on Training Programme for MSc Physics Students , 28th January 2021.
5. “Ocean and Atmospheric systems : A Physics Perspective”, Webinar series as a part of National Science Day Celebrations 2021, 12th March 2021
6. Webinar on “Ecosystem Restoration” (in connection with World Environment Day), 5th June, 2021
7. Webinar on “A journey through the Atmospheric Ozone”(in connection with World Ozone Day), 16th September, 2021
8. Webinar on “The Gravity of Thanu Padmanabhan – The Titan of Indian Theoretical Physics” (Tribute to Prof. T. Padmanabhan), 21st September, 2021