Faculty Profile

Name: **Dr. ASHWIN KUMAR MYAKALWAR**

Designation: **Associate Professor**

Teaching Areas: Undergraduate Physics, Electronics, Classical mechanics, Laser Physics, Optics, Chemometrics

Research Interests: Laser Spectroscopy, Chemometrics, Optical instrumentation and Automation and Quantum Computation.

Education:

- Ph.D in Physics, University of Hyderabad, Hyderabad, India, 2016.
- M.Sc in Physics, Osmania University, 2009
- B.Sc Physics, Sri Krishna Devaraya University, 2006

Research / Selected Publications:

- Raju, T.S. and **Myakalwar, A.K**., 2023. *J. Opt. Soc. Am. B*, 40(10), pp.2657-2663.
- Saeidfirozeh, H., **Myakalwar, A.K** et al., 2023. *J. Anal. At. Spectrom.*, *37*(9), pp.1815-1823.
- Velásquez, M., **Myakalwar, A.K**. et al., 2022. *Spectrochim. Acta, Part B*, *195*, p.106501.
- **Myakalwar, A.K**., Sandoval, et al., 2021. *Minerals*, 11(10), p.1073.
- **Myakalwar, A.K.,** Sandoval, C., 2021. *Anal. Chim. Acta*, 1178, p.338805.
- Luarte D, **Myakalwar AK et al.,** 2021. *Anal. Methods* 13: 1181-90

Funded Projects

1. FONDECYT 3200371 (Principal Investigator), "*Real-time mineralogical surface mapping in rocks by using laser based spectroscopy towards establishing fundamental knowledge for in-situ analytical assessment in the copper mining industry*", Chilean National Agency for Research and Development 2020-23.

2. ANILLO ACM 170008 (Postdoc), "Novel spectral sensing for pyro-metallurgical processes" Chilean National Agency for Research and Development, 2018-2020

3. Thulium fibre lasers for industrial and medical applications, Czechia, Czech academy of Sciences 2016-2018.

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