

Mahesh A

Zanadu House
Thripadhapuram road
Karyvattom
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Kerala -695581



Personal Information

Date of Birth: 25/11/1985
Age: 37
Civil status: Single
Birth place: Kerala, India
Language : English, Malayalam

Contact

 **Research Scholar**
Department of Physics
University of Kerala
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Kerala, India-695 581

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Education Attainments

Ph.D., (2017 -): Department of Physics, University of Kerala

Master of Philosophy (M.Phil.) (2014): Department of Physics, University of Kerala

Master of Science in Physics (M.Sc.) (2011): S. D. College, Alappuzha (Affiliated to University of Kerala)

Bachelor of Science in Physics (B.Sc.) (2007): M.E.S. Kallady College, Mannarkkad, Palakkad

https://drive.google.com/drive/folders/1NQylt50fUlrFqCKBLw_VL74NS8HAYXhN?usp=sharing.

Experience

31/07/2015–17/05/2017

Technical Assistant

Department of Physics • University of Kerala

<https://drive.google.com/file/d/1U326uZnketBpgu6CVBm224PtzqkTIYrK/view?usp=sharing>.

01/02/2019–26/04/2019

Technical Officer In charge

• X-ray Photoelectron Spectroscopy instrument (XPS)

ESCALAB 250Xi, Thermo Scientific Instrument (3 month) on Part-time basis at Central Laboratory for Instrumentation and Facilitation (CLIF), University of Kerala.

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(**Resource Person** (one month) in Internship program for hands on training of XPS conducted for Research scholars, University of Kerala from various departments)

https://drive.google.com/file/d/18Bed00BXuGqi544hfmm7ut1VNR4mhNu3/view?usp=share_link
https://drive.google.com/file/d/1vo1jMmy1bPv8Mu_iNJfsaz2B6vhSPIE3/view?usp=share_link

Other Experience

- Assist for the maintenance and operation of **Bruker D-8 Advance** X-ray spectrometer, Department of Physics University of Kerala.
- **Raman Spectrometer** (Horiba- LabRam HR evolution), **FTIR** (JASCO), **Fluorescence Spectrophotometer** (Fluorolog-4, Horiba)

https://drive.google.com/file/d/1DITavDvIUd11gzqlxAm1-cLQthlIdkm1/view?usp=share_link

- **Resource person** for Raman spectrometer and X-ray diffractometer for Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (**STUTI**) program organized by **CLIF** and **DST**

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Publications

1. U. S. UdayachandranThampy, [A. Mahesh](#), K. S. Sibi, I. N. Jawahar and V. Biju, “Enhanced photocatalytic activity of ZnO-NiO nanocomposites synthesized through a facile sonochemical route”. SN Applied Sciences (2019) 1:1478.
<https://doi.org/10.1007/s42452-019-1426-z>.
2. J. S. Nithin, [A. Mahesh](#), K. S. Sibi, G. Subodh, “Insight to the crystal structure and multifunctional optical properties of A_2CdTeO_6 ($A=Ba_2, Sr, Ca$)”, Journal of Alloys and compounds, Volume 865, 5 June 2021, 158902.
<https://doi.org/10.1016/j.jallcom.2021.158902>.

Workshop and training programs attended

1. **Global Initiative of Academic Network (GIAN)**, Physics of Strongly Correlated Electron Systems. Government of India, Ministry of Human Resource Development and Center for High Pressure Research, School of Physics, Bharathidasan University.
2. **Horiba Optical School**
“Hands on workshop in Optical Microscopy and Spectroscopy”
Jointly Organized by JNCASR, Bangalore and HORIBA Scientific Group
3. **Thematic Workshop and Call for CRS Project Proposal**
“Techniques & Instrumentation in Material Research (TIMR)”
UGC-DAE Consortium for Scientific Research, Indore
4. **“Colloquium on Smart Materials and Structures”**
Srinivasa Ramanujan Institute for Basics Science (KSCSTE-SRIBS), Kerala
5. **Nanomaterial Characterization by Electron Microscopy**,
Central Instrumentation Centre (CIC), Madurai Kamaraj University.
6. **Synthesis and Characterizations of Advanced Materials (SCAM-2020)**
Department of Chemical Engineering and Department of Materials & Metallurgical Engineering, Maulana Azad National Institute of Technology` Bhopal, November – 2020

<https://drive.google.com/drive/folders/1JzihCuSB3BiyYTnOraZg065OHuL-YJoC?usp=sharing>.

Other Programs

INCULCATE 2016-2017, Residential Training Programs for Students, Science Propagation Program of Government of Kerala- contacted training secession on Spectroscopy and daily life.

<https://drive.google.com/file/d/1m7iw7uzjeHtFbsCqnMni9l0qs7C0gSF6/view?usp=sharing>.