

## PERSONAL PROFILE



**Name** : Dr. Sriram Jyothsna

**Father Name** : Sriram Sammaiah

**Sex** : Female

**Date of Birth** : 05.02.1986

**Category** : BC – (B) (Padma Shali)

**Qualification** : M.Sc., Ph.D., APSET., B.Ed

**Designation** : Part-Time Lecturer in Physics

**Address:**

**Office** : Department of Physics  
: University College of Engineering & Technology for  
Women (UCE&TW)  
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## EDUCATIONAL

**Qualifications** : M.Sc. (Physics), 2008 ; FIRST Division.  
Kakatiya University, Warangal, Telangana

B.Ed., (KU

**Certification** : APSET (June 2012)

: GATE 2012 qualified

Teaching and Research Experience of Principal Investigator

a. Teaching experience : UG – 10 Years

b. Research experience : 6 Years

c. Year of award of Doctoral degree : June 2021

d. Title of thesis for doctoral degree : **“Trace Elemental Analysis of some Anti-Cancer, Anti-Asthmatic, Anti-Skin disease and Anti-Jaundice Medicinal Plants of Telangana using EDXRF-Technique**

e. Publication

i. Papers published : 20

ii. Books Published : 02

iii. Book Chapters Published : 02

Conference/ Seminars Attended : 13

Articles Reviewed : 01 (Elsevier)

## **Research Publications in reputed National and International Journals**

- 1) **S Jyothsna**, D Sammaiah, (2022) Correlation of Trace Elemental Content in Selected Anti-Viral Medicinal Plants as Source of Active Molecules Used Against COVID-19 by ED-XRF Technique, **ECS Transactions, IOP Publishing** 107 (1) **2022** 577.
- 2) **S Jyothsna**, D Sammaiah, G. Manjula, AM Kumar (2022) Quantification of Trace Elemental Concentration in Bark and Leaves of *Aegle marmelos* L. Used against Asthma Disease in Telangana by EDXRF-Technique, **Advanced Materials Research** 1169 **2022** 57-64.
- 3) **S Jyothsna**, D Sammaiah, G. Manjula (2022) Quantification of trace elemental concentrations in ten soil samples from coal mining region by ED-XRF-technique, **World News of Natural Sciences** 41 **2022** 1-12
- 4) **S Jyothsna**, D Sammaiah Computational analyzing of 13 trace elemental concentrations in ten anti-skin disease traditional herbs from Telangana using ED-XRF-Technique, **World Scientific News** 164 **2022** 17-43.
- 5) **S Jyothsna**, G. Manjula, D Sammaiah, ASN Rao (2021) Trace elemental analysis of Anti-Jaundice medicinal plants of Telangana using EDXRF technique, **Materials Today: Proceedings** 43 **2022** 1526-1533.
- 6) **S. Jyothsna**, G. Manjula, Bunty Rani Roy, D. Sammaiah and A. S. Nageswara Rao (2021), "Investigation of Qualitative trace elemental analysis of anti-cancer medicinal plant of *Catharanthus roseus* from Telangana by EDXRF and PIXE" Published in **AIP Conference Proceedings** 2317(1) **2021** 050016.

- 7) PC Rao, G Ravinder, **S Jyothsna**, G Manjula, B Raju, CJ Sreelatha, (2021) Investigation of structural and luminescence properties of BaMgAl<sub>10</sub>O<sub>17</sub>: Eu<sup>2+</sup> phosphor synthesized using auto combustion method, **Materials Today: Proceedings** 43 **2021** 2123-2126.
- 8) **S Jyothsna**, G Manjula, PC Rao, D Sammaiah, ASN Rao (2021) Estimation of trace elemental concentration in Azadirachta indica and Withania somnifera anti-cancer medicinal plants of Telangana using EDXRF technique, **Materials Today: Proceedings** 43 **2021** 2383-2388.
- 9) G Manjula, BR Roy, **S Jyothsna**, AM Kumar, AK Yadav, ASN Rao (2021) Determination x-ray mass attenuation coefficients for NbO<sub>2</sub> compound by SR source, **AIP Conference Proceedings** 2317 (1) **2021** 020005.
- 10) **S. Jyothsna**, G. Manjula, P. Chandar Rao, A. Mahesh Kumar, D. Sammaiah, AS Nageswara Rao (2021) Computational screening of trace elemental concentrations in Hemidesmus indicus L. A potential herbal plant used against skin diseases by ED-XRF-Technique, **Materials Today: Proceedings** 46 **2021** 2221-2225.
- 11) AMKASNR, **S. Jyothsna**, G. Manjula, D. Sammaiah (2021) Quantitative Trace elemental Screening of selected anti-cancer Medicinal plants using ED-XRF-technique, **High Technology Letters** 27 (3) **2021** 22-34.
- 12) ASNR G. Manjula, Bunty Rani Roy, **S. Jyothsna**, A. Mahesh Kumar, Ashok Kumar Yadav (2021) Comparative study of the Absorption coefficient of Nb metal and its compound **Materials today: Proceedings**, **2021** 1-11.
- 13) AM Kumar, VA Chaudhari, G Manjula, **S Jyothsna**, B Roy, ASN Rao, (2021) Measurement of X-ray Mass Attenuation Coefficient of ZrBr<sub>4</sub> near the K-edge using Synchrotron Radiation **Zeichen Journal** 7(12) **2021** 411-422.

- 14) **S. Jyothsna**, G. Manjula, Sateesh Suthari, A. S. Nageswara Rao,(2020) Qualitative elemental analysis of selected potential anti-asthmatic medicinal plant taxa using EDXRF technique **Heliyon** 6 **2020** e03260.
- 15) **S. Jyothsna**, G. Manjula, A. S. Nageswara Rao (2020) Estimation of trace elements in *Azadiracta indica* from mining area by EDXRF technique, International Conference on Multifunctional Materials (ICMM-2019) **IOP Publishing, Journal of Physics: Conference series** 1495 **2020** 012028.
- 16) G. Manjula, **S. Jyothsna**, A. Mahesh Kumar, Buntly Rani Roy, Ashok Kumar Yadav, A. S. Nageswara Rao (2020) X-ray Mass attenuation coefficient of  $Nb_2O_5$  over the energy range, 18.9132-19.6882 International Conference on Multifunctional Materials (ICMM-2019) **IOP Publishing, Journal of Physics: Conference series** 1495 **2020** 012025.
- 17) A. Mahesh Kumar, G. Manjula, **S. Jyothsna**, Buntly Rani Roy, A. S. Nageswara Rao (2020) Measurement of X ray mass attenuation coefficient of  $ZrO_2$  and  $ZrOSO_4$  near the K-edge using Synchrotron radiation, **Solid State Technology**, **63**(6) **2020** 6848-6860.
- 18) **S Jyothsna**, G Manjula, AS Nageswara Rao -Estimation of elemental analysis of selected medicinal plants traditionally used for curing skin diseases of Telangana state, using EDXRF technique, Proceedings of the twenty first national symposium on ..., 2018 (NSRP-23).
- 19) **S. Jyothsna**, G. Manjula, A. S. Nageswara Rao (2018) To study the elemental concentrations in selected medicinal plants by EDXRF technique **International Journal of Advanced and Innovative Research (IJAIR)** 7(8) **2018** 1-9.
- 20) **S. Jyothsna**, G. Manjula, A. S. Nageswara Rao (2018) Trace elemental analysis of Anti-Cancer medicinal plants by using EDXRF technique

**International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) 4(7) 2018 817-822.**

### **Books Published in**

1. **S. Jyothsna**, D. Sammaiah, Quantitative Elemental Screening of Potential Medicinal Plants Used in the Management of Jaundice by Traditional Healers of Telangana, India, **2022**, **LAP LAMBERT Academic Publishing**, ISBN: 978-620-5-51103-9.
2. **S. Jyothsna**, and D. Sammaiah, G. Manjula, Determination of trace elemental content in selected anti-skin diseases medicinal plants of Telangana using EDXRF-technique, **2020**, **LAP LAMBERT Academic Publishing**, ISBN: 978-620-3-03002-0.

### **Book Chapters Published in**

1. **S. Jyothsna**, D. Sammaiah and Manjula, Assessment and Estimation of Trace Elements in Azadiracta indica from Mining Area by EDXRF Technique, **2021**, Book :New Insights into Physical Science, Vol. 12, Pages 77-83, Publisher- **Book Publisher International**, Print ISBN: 978-93-90516-78-0, eBook ISBN: 978-93-90516-87-2
2. G Manjula, **S Jyothsna**, AM Kumar, BR Roy, AK Yadav, ASN Rao, Study on X-ray Mass Attenuation Coefficients of Nb<sub>2</sub>O<sub>5</sub> over the Energy Range 18.9132-19.6882, **2021**, **Newest Updates in Physical Science Research** Vol. 1, 65-69.

## **Workshops / Seminars/ Conferences Attended**

1. I have attended Two Day National Seminar on Innovations in Physics of Molecules and Materials (IPMM-2022), Sponsored by TSCHE & UGC and organized by the Department of Physics, Kakatiya University, Warangal during 28 & 29 October 2022 (I have submitted Abstract).
2. I have attended First International Virtual Conference on Technologies for Smart Green Connected Society (ICTSGS-2021) 2021, 29-30 November (Submitted Abstract).
3. I have attended International Virtual Conference, IConMEAS 2020, 28-30 December conducted at Kuala Lumpur, Malaysia (I have submitted paper and given oral presentation).
4. I have attended International Virtual Conference on Smart Advanced Material Science & Engineering Applications, IVCSAMSEA-2020. Conference Date: 3-5, December, 2020 ( I have submitted paper and given oral presentation)
5. I have attended International conference on Advancement in Aeromechanical Materials for Manufacturing, (ICAAMM-2020), held on 24<sup>th</sup> & 25<sup>th</sup> July, 2020 at MLR Institute of Technology, HYD (I have given oral presentation).
6. I have attended International Conference on Advanced Materials Behavior & Characterization (ICAMBC- 2020), Organized by Mattest Research Academy, Chennai, during 18-23 July, 2020 (I have given oral presentation).
7. I have attended Two day national Workshop on Physics of Materials and Molecules, 2019 Organized by Dept. of Physics, KU, Warangal.
8. Research Methodology & Scholarly Writing Skills (RMSWS-2019), NIT, Warangal.

9. 21<sup>st</sup> National Symposium on Radiation Physics (NSRP-21), 2018 RRCAT, Indore.
10. International conference on Environmental Impact of Advanced Material and Energy Technologies (EIAMET-2017), A. V. College of Arts, Science & Commerce, 2017, Hyd.
11. Diffraction and other Characterization Techniques in Materials Science in 2017, organized by UGC-DAE, CSR, Mumbai centre & Dept. of Physics, KU, Warangal.
12. Science Academies 82<sup>nd</sup> Refresher Course on Experimental Physics, 2016, Dept of Physics, KU, Warangal.
13. One-Day National Seminar on Recent Applications in Medicinal Plants and Material Devices, on July 2<sup>nd</sup> 2016, Nizam College, OU, Hyd.

**Articles Reviewed** : Materials Today: Proceeding (Elsevier) Journal.

(Dr. S. JYOTHSNA)



