

Dr. G. Upender



Education QUALIFICATIONS: M. Sc., Ph.D.

Doctor of Philosophy:

Thesis title: "Influence of some heavy metal oxides on physical, structural, thermal and electrical properties of tellurite glasses"

Research Experience:

Areas of research: Glasses/Glass-ceramics, DSSC, Photocatalysis, Gas Sensing & Surface Enhanced Raman Spectroscopy

Ph.D Awarded: 04

Postdoctoral Fellow: UGC-Dr.D.S. Kothari Postdoctoral Fellow, School of Physics, University of Hyderabad, Hyderabad (19.10.2010-12.03.2012).

Scientist: CSIR-CGCRI, Kolkata from 13.03.2012 to 05.09.2013.

Instruments used: XRD, FESEM/EDX, TEM, AFM, XPS, UV-Vis-NIR spectroscopy, DSC/DTA, DC/AC, Dilatometer, EPR, IR, Raman spectroscopies, Nanoclusters films, SPR, SERS and studies, DSSC, Photocatalysis and Gas sensing.

Citation analysis: Total number of publications: 55 (International: 52; National: 03); Total Number of Citations: 1495; The h-index: 23 and i-10 index: 31

Areas of Teaching Experience

Subjects taught at M.Sc.: i) General Solid State Physics, ii) Advanced Solid State Physics

iii) Classical Mechanics, iv) Nuclear Physics

v) Spectroscopy, vi) Crystal Physics

vii) Modern Optics, viii) EM Theory

Awards:

S.No	Name of Award	Awarding Agency	Year
1.	Research Fellowships in Sciences for Meritorious Students (RFSMS)-JRF	UGC	2007-2009
2.	Research Fellowships in Sciences for Meritorious Students (RFSMS)-SRF	UGC	2009-2010
3.	Dr. D.S. Kothari PDF	UGC	2010-2012
4.	Associate Fellow of Telangana Academy of Science, Telangana	Telangana Govt.	2021
5.	Appreciation certificate from Vice-Chancellor	Osmania University	2022
6.	Outstanding Referee for many journals	Elsevier	2013 to till date

GRANTS:

S.No	Title	Cost in lakh	Duration	Role as PI/Co-PI	Agency	Status
1	Synthesisnanocomposites	6.00	2015-2017	PI	UGC, New Delhi	Completed
2	Development ofPhotocatalysis applications	13.20 (EMR/2016/002650)	2017-2020	Co-PI	DST-SERB, New Delhi	Completed
3	Developmentfor gas sensing and photocatalytic applications	29.60 SUR/2022/003708	2023-2026	PI	DST SERB-SURE, New Delhi	Sanctioned

Publications:

<https://scholar.google.co.in/citations?user=zQwZQPQAAAAJ&hl=en>

