

## BIO-DATA

1. Name and full correspondence address : Dr.G.PADMAJA  
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2. Email(s) and contact number(s) : gpadmaja06@yahoo.com
3. Institution : Department of Physics, Kakatiya University.
4. Date of Birth : 20-01-1980
5. Gender (M/F/T) :Female
6. Category Gen/SC/ST/OBC :General
7. Whether differently abled (Yes/No) :No
8. Academic Qualification (Undergraduate Onwards)

S.No.	Degree	Year	Subject(s)	University/Institution	% of Marks
1	B.Sc(M.P.C)	2000	Maths,Physics,Chemistry	Kakatiya University	70%
2	M.Sc ( Physics)	2003	Engineering Physics	Kakatiya University	72%
3	P.hD	2009	Materials Science	Osmania University	
4	Post.Doc	2009- 2010	High Power Fibre Lasers	Politecnico di Torino	

**9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.**

Title: : ***“SPECTROSCOPIC STUDIES OF  $Mn^{2+}$  AND  $Fe^{3+}$  IONS IN SOME QUATERNARY ALKALI BORATE GLASSES: AN EVIDENCE OF MIXED ALKALI EFFECT”***

**University: Osmania University**

**Year of Award: 2009**

10. Work experience (in chronological order).

Designation	Place of work	From
Post.Doc	Politecnico di Torino, Torino	2009 -2010
Assistant Professor	Department of Physics, Kakatiya University, Warangal	2010-2013
Assistant Professor	University Arts & Science College, Subedari, Warangal	2013-2017
Assistant Professor	Department of Physics, Kakatiya University, Warangal.	2017 –till date

**II. Awards**

1. University Grants Commission: **Merit student fellowship** through Department of Physics, Osmania University, Hyderabad
2. **Best Oral Presentation Award** at AP Science Congress, Hyderabad.
3. **Best Poster Award** at International conference held at Acharya Nagarjuna University, Guntur.A.P
4. **Young Scientist Award** in Physics by Dr. K.V. Rao Scientific Society, Hyderabad.
5. **Young Scientist Fellowship Award** from A.P. Council of Science and Technology.
6. **Best Poster award** In ( XX NSFD-2018) which held GGU, Bilaspur, India, dated: Dec.14 - 16,2018

**12. Publications (List of papers published in SCI Journals, in year wise descending order).**

Year	S. No.	Title & Authors	Journal details
2020	1.	Synthesis of $Sr_{1-x}Ba_xBi_2B_2O_7$ glass ceramics: A study for structure and characterization using experimental techniques and DFT method  <b>G.Padmaja, G.Devarajulu, B.Devaprasad Raju, G.R.Turpu, K.Srishailam, B.Venkatram Reddy, G.Pavan Kumar</b>	<b>Journal of Molecular Structure (128660)</b>
2020	2.	Rapid photodegradation of methylene blue dye by rGO- $V_2O_5$ nano composite  AradhyaMishra <sup>a</sup> ArchanaPanigrahi <sup>a</sup> PriyanathMal <sup>a</sup> SantoshPenta <sup>b</sup> G.Padmaja <sup>c</sup> GaneshBera <sup>a</sup> PradipDas <sup>a</sup> P.Rambabu <sup>a</sup> Goverdhan ReddyTurpu <sup>a</sup>	<b>Journal of Alloys and Compounds</b> ( Available online 29 May 2020) 155746

2020	3.	Vibrational spectra and optical properties of Fe <sub>1-x</sub> Cr <sub>x</sub> VO <sub>4</sub> solid solutions: with a group theory analysis. Ganesh Bera, P.Mal, V.R.Reddy. Uday Deshpande, Pradip Das, <b>G.Padmaja</b> , G.R.Turpu	<b>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</b> 227(2020)17668
2019	4.	Comparative electrochemical analysis of rGO-FeVO <sub>4</sub> nanocomposite and FeVO <sub>4</sub> for supercapacitor application Aradhya Mishra <sup>a</sup> , Ganesh Bera <sup>a</sup> , Priyanath Mal <sup>a</sup> , <b>G. Padmaja</b> <sup>c</sup> , Pintu Sen <sup>b</sup> , Pradip Das <sup>a</sup> , Brahmananda Chakraborty <sup>d</sup> , G.R. Turpu <sup>a,*</sup>	Applied Surface Science 488(2019) 221 -227
2020	5.	Methylene blue dye degradation by bulk, nano FeVO <sub>4</sub> and rGO-FeVO <sub>4</sub> Ganesh Bera, Aradhya Mishra, Priyanath Mal, Pradip Das, <b>G. Padmaja</b> , P. Rambabu, and G. R. Turpu	<b>AIP Conference Proceedings</b> 2220
2019	6.	Low temperature synthesis of FeVO <sub>4</sub> through mechano milling assisted solid state reaction method. Ganesh Bera, V. R. Reddy, P. Rambabu, P. Mal, P. Das, <b>G. Padmaja</b> , and G. R. Turpu	<b>AIP Conference Proceedings</b> 2115
2019	7.	Study of image characteristics with coherent illuminated symmetrical trapezoid and bar targets M. Kalpana Devi, <b>G. Padmaja</b>	<b>International Journal of Research and Analytical Reviews (IJRAR)</b> February 2019, Volume 6, Issue 1
2017	8.	Triclinic - Monoclinic - Orthorhombic (T - M - O) structural transitions in Phase Diagram of FeVO <sub>4</sub> - CrVO <sub>4</sub> Solid Solutions Ganesh Bera, V. R. Reddy, P. Rambabu, P. Mal, P. Das, <b>G. Padmaja</b> , and G. R. Turpu	J. Appl. Phys. 122, 115101 (2017)
2013	9.	Studies on Transport Properties of Fe <sup>3+</sup> : Li <sub>2</sub> O-K <sub>2</sub> O-CdO-B <sub>2</sub> O <sub>3</sub> Glass system: An Evidence of Mixed Alkali Effect. <b>G. Padmaja</b> and P. Kistaiah,	Journal of Modern Physics,4,855-858(2013) ISSN Print:2153-1196 Scientific Research
2013	10.	Effect of Ca on the properties of Gd-doped ceria for IT-SOFC S. Amesh, G.Upender,C.Vishnuvardhan Reddy, K.C.JamesRaju, <b>G.Padmaja</b> and S.MohanReddy	Journal Modern Physics4, 48-59(2013) ISSN Print : 2153-1196 Scientific Research

2012	11	EPR Spectroscopic studies in $(30-x)Li_2O-xK_2O-10CdO-59B_2O_3-1MnO_2$ . <b>G.Padmaja, T.G.Reddy, P.Kistaiah</b>	Chemical Physics 394(2012)17-20 Elsivier publishers
2011	12	Compositional dependence of optical absorption spectra in mixed alkali borate glasses. <b>G.Padmaja, T.G.Reddy, P.Kistaiah</b>	Philosophical Magazine Letters Vol.91, No.2, Feb.2011, 97-102 Taylor&Francis
2011	13	On the Electron Paramagnetic Resonance Studies in Mixed Alkali Borate Glasses. <b>G.Padmaja, T.Goverdhan Reddy and P.Kistaiah</b>	AIP Conf.Proc.1391, 544-546(2011)
2010	14	Optical absorption and EPR spectroscopic studies of $(30-x)Li_2O-xK_2O-10CdO-59B_2O_3-1Fe_2O_3$ : An evidence of mixed alkali effect. <b>G.Padmaja, P.Kistaiah</b>	Solid State Sciences 12 (2010) 2015-2019 Elsivier publishers
2009	15	Infrared and Raman spectroscopic studies on alkali borate glasses: An evidence of mixed alkali effect (cited 77 times) <b>G. Padmaja and P. Kistaiah</b>	J.Phys.Chem.A 133(11)2937-2404 (2009)
2209	16	Optical characterization of $Mn^{2+}$ : $Li_2O-K_2O-CdO-B_2O_3$ glass system: Absorption edge, optical band gap, optical polarizability and optical basicity <b>G.Padmaja and P. Kistaiah</b>	<b>IOP Conf. Series: MSEB,2, 012040 (2009)</b>

### 13. Details of Patents -NA-

### 14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Physics of Semiconductor Devices	Dr.G.Padmaja	Telugu Academy Hyderabad	2020
2.	Basic Instrumentation	Dr.G.Padmaja	Telugu Academy Hyderabad	2022

