

## Curriculum Vitae

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### Personal Information



**Dr. Davuluri. Venkatesh**

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**Sex** Male | **Date of birth** 19/07/1990 | **Nationality** Indian

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### Research Experience

**08/2014- 12/2017**

**Researcher**

Department of Physics, GITAM Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh, India.

**Supervisor:** Prof. K.V. Ramesh Department of Physics, GITAM Institute of Science, GITAM University, Andhra Pradesh India.

**Thesis Title:** *“Study of electrical and magnetic properties of Cu substituted Ni-Zn nanocrystalline ferrites synthesized via citrate gel Autocombustion route.”*

**07/2013- 03/2017**

**Project Fellow**

Department of Physics, GITAM Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh, India.

**Supervisor:** Prof. K.V. Ramesh Department of Physics, GITAM Institute of Science, GITAM University, Andhra Pradesh India.

**Subject:** *“Synthesis and study of magnetic and electrical properties of ferrites for memory and sensor applications”*

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### Teaching Experience

**08/2018- Till Date**

**Assistant Professor (Ad-hoc)**

Department of Physics, College of science, Dr.B.R.Ambedkar University, Etcherla, Srikakulam, Andhra Pradesh, India. Handling theory and laboratory classes for M.Sc. Physics students.

**09/2017- 08/2018**

**Degree Lecturer**

I have handled theory and laboratory classes for B.Sc. Physics students in Department of Physics, Telangana Tribal Welfare Residential Degree College Men (T.T.W.R.D.C) Manuguru, Telangana, India.

**06/2012- 07/2013**

**Junior Lecturer**

New Generation Junior college, Khammam, Telangana, India.

## **Education**

**08/2014- 12/2017**

**Ph.D. in Physics,**

Department of Physics, GITAM Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh, India.

**Supervisor:** Prof. K.V. Ramesh Department of Physics, GITAM Institute of Science, GITAM University, Andhra Pradesh India.

**Thesis Title:** “*Study of electrical and magnetic properties of Cu substituted Ni-Zn nanocrystalline ferrites synthesized via citrate gel autocombustion route*”

**06/2010- 04/2012**

**M.Sc. in Physics**

Department of Physics, GITAM Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh, India.

**06/2007- 04/2010**

**B.Sc. in Physics**

Kakatiya University, Warangal, Telangana, India.

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## **Achivements/awards**

**2015** Best poster award from AcharyaNagarjuna University in (NSAMS-15).

**2010-2012** Merit Scholarship award from GITAM University.

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## **Skills**

- ❖ Strong knowledge and research experience in magnetic materials.
  - ❖ Strong background in preparation, characterization and analysis of structural, electrical and magnetic properties of nano crystalline ferrites.
  - ❖ Experience in the preparation of nanomaterials by sol-gel autocombution, citrate gel autocombution, coprecipitation and Ball milling methods.
  - ❖ Experience in analysis of magnetization data and Impedance data.
  - ❖ Experience in analysis of temperature variation dielectric properties.
  - ❖ Profficient in Microsoft office, Origin8.1 and Retveld Refinement software.
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## **Experimental Tools Used/Handled**

- X-ray diffractometer (PANalyticalX'Pert-PRO diffractometer)
  - Fourier Transform Infrared Spectroscopy (Perkin-Elmer)
  - Scanning Electron Microscopy (ZEISS Scanning electron microscope)
  - Vibrating sample magnetometer (Lakeshore VSM 7410 magnetometer)
  - Dielectric/Impedance analyzer (PSM-1735 Newton 4th Ltd)
  - Dc Resistivity two probe system
  - High Energy Ball Mill
  - Box Furnace
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## **Research Interest**

- ❖ Synthesis, characterization of nanoferrite materials and their applications.
  - ❖ Magnetic materials ferro and antiferro magnetic materials, rare earth ferrites.
  - ❖ Ferro electric materials, multiferroics, thin films and thermo electric materials.
  - ❖ CNT based composite materials, high frequency and Multi-Layer Chip Inductor applications of ferrite materials
  - ❖ Magnetic storage devices and bio medical applications of magnetic materials.
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## List of publications

1. **DavuluriVenkatesh** and K. V. Ramesh, *Structural and electrical properties of Cu doped Ni-Zn nanocrystalline ferrites for MLCI applications*, **International Journal of Modern Physics B**, Vol**31**, No. **33** 1750318 (2017).  
DOI:10.1142/S0217984917503183
2. **DavuluriVenkatesh**, C.V.S.S.Sastry, K. V. Ramesh, *Effect of Sintering Temperature on Micro Structural and Impedance Spectroscopic Properties of  $Ni_{0.5}Zn_{0.5}Fe_2O_4$  nano Ferrite*, **AIP Conference Proceedings**, Vol**1859**, 020035 (2017). DOI:10.1063/1.4990188.
3. **DavuluriVenkatesh** and K. V. Ramesh, *Structural, dielectric and impedance spectroscopic studies of  $Ni_{0.5}Zn_{0.5-x}Li_xFe_2O_4$  nanocrystalline ferrites*, **International Journal of Modern Physics B**, Vol. **31** 1750153 (2017).  
DOI:10.1142/S0217979217501533.
4. **D. Venkatesh**, M. Siva Ram Prasad, B. RajeshBabu, K. V. Ramesh, K. Trinath, *Effect of sintering temperature on the Micro Strain and Magnetic Properties of Ni-Zn Nanoferrites*, **Journal of Magnetism**, Vol 20(3), 229-240 (2015). DOI: 10.4283/JMAG.2015.20.3.229
5. **DavuluriVenkatesh**, G. Himavathi, K. V. Ramesh, *Structural, Magnetic, and Electrical Properties of  $Ni_{0.65}Zn_{0.35-x}Cu_xFe_2O_4$  Nano ferrite System*, **Journal of Superconductivity and Novel Magnetism**, Vol**28(6)** (2015).  
DOI:10.1007/s10948-015-3098-2

6. **DavuluriVenkatesh** and K. V. Ramesh, *Structural and Magnetic properties of Cu substituted Ni-Zn nano crystalline ferrites for MLCI applications*, **under review** journal of inorganic and organometallic polymers and materials (2018).
7. **DavuluriVenkatesh** and K. V. Ramesh, Structural and magnetic properties of Li<sup>+</sup> substituted nano-crystalline ferrites synthesized through citrate gel process, **under review**, Journal of Superconductivity and Novel Magnetism(2018).

### **List of Conferences participated**

- ❖ Oral presentation on Effect of Sintering Temperature on Micro Structural and Impedance Spectroscopic Properties of Ni<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> Nano Ferrite in international conference on **functional materials, characterization, solid state physics, power, thermal and combustion energy** (FCSPTC), April 7-8<sup>th</sup> 2017.
- ❖ Participated in two day national seminar on **recent trends in nanoscience and nano technology** (RTNSNT-2016), organized by department of physics, M.R.college, Vizianagaram held on 26th and 27th November 2016.
- ❖ Presented Poster presentation on “Effect of sintering temperature on structural and impedance spectroscopic studies of Ni<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> ferrite synthesized via citrate gel combustion route” in **National Seminar on Advances in Materials Science** (NSAMS-15), organized by Dept.of EIT, AcharyaNagarjuna University held on 25-26<sup>th</sup> Nov 2015.
- ❖ Oral presentation on “Structural and Electrical Properties of Copper Doped Nickel-Zinc Nano Ferrites” in the **6th National Symposium for Materials**

**Research Scholars**, MR-14 held at Department of Metallurgical Engineering & Materials Science, IIT Bombay held on 13th and 14th May 2014.

❖ Participated in “One day workshop on Advanced Characterization Techniques” during 6th **National Symposium for Materials Research scholars**, MR-14 held at Department of Metallurgical Engineering & Materials Science, IIT Bombay on 12th May 2014.

❖ Participated in five days training program on **Fundamentals of Nanotechnology**, GITAM University, Visakhapatnam Feb 17-21 2014.

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## **References contact information**

### **1. Prof. K.V. Ramesh**

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Department of Electronics & Physics  
GITAM Institute of Science  
GITAM University  
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### **2. Prof. K Ramakrishna**

Professor  
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GITAM University  
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### **3. Prof. AnkamBhaskar**

Visiting scientist  
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National Changhua University of Education  
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