

Curriculum Vitae

Personal Information



Dr. Davuluri. Venkatesh

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Wyra, Khammam, Telangana-50765.

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

Research Experience

4 Y

Teaching Experience

4 Y

Total Experience

8 Y

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*”

Teaching Experience

08/2018- Till Date

Assistant Professor (c)

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

Handled theory and laboratory classes for Intermediate students, 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 - First class

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

06/2007- 04/2010

B.Sc. in Physics - First class

RJC Degree College, Khammam, Kakatiya University, Warangal, Telangana, India.

Achievements/awards

2015 Best poster award from Acharya Nagarjuna University in (NSAMS-15).

2010-2012 Merit Scholarship award from GITAM University.

Administrative Experience:

- ❖ Vice-Principal Telangana Tribal Welfare Residential Degree College Men (T.T.W.R.D.C) Manuguru, Telangana. From 2017-2018.
- ❖ Member, Board of Studies, Department of Physics, Dr. B. R. Ambedkar University, Srikakulam from 2018.
- ❖ Course Coordinator, Department of Physics, Dr. B. R. Ambedkar University, Srikakulam from October 2019 to October 2020.

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 Retvield 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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No. of SCI / SCOUS Publications in International journals	No. of International Conferences presented/Participated	No. of National Conferences presented/Participated	No. of Training/FDP programs
6	2	7	5

List of publications

1. **D. Venkatesh**, B. B. V. S. Vara Prasad, K. V. Ramesh, M. N. V. Ramesh, Magnetic Properties of Cu^{2+} Substituted Ni–Zn Nano-Crystalline Ferrites Synthesized in Citrate-Gel Route, **Journal of Inorganic and Organometallic Polymers and Materials**, DOI: 10.1007/s10904-019-01419-2 (2020).
2. **Davuluri.Venkatesh** and K. V. Ramesh, *Structural and electrical properties of Cu doped Ni-Zn nanocrystalline ferrites for MLCI applications*, **Modern Physics Letters B**, Vol**31**, No. **33** 1750318 (2017). DOI:10.1142/S0217984917503183
3. **DavuluriVenkatesh**, C.V.S.S.Sastry, K. V. Ramesh, *Effect of Sintering Temperature on Micro Structural and Impedance Spectroscopic Properties of $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ nano Ferrite*, **AIP Conference Proceedings**, Vol**1859**, 020035 (2017). DOI:10.1063/1.4990188.
4. **Davuluri.Venkatesh** and K. V. Ramesh, *Structural, dielectric and impedance spectroscopic studies of $\text{Ni}_{0.5}\text{Zn}_{0.5-x}\text{Li}_x\text{Fe}_2\text{O}_4$ nanocrystalline ferrites*, **International Journal of Modern Physics B**, Vol. **31** 1750153 (2017). DOI:10.1142/S0217979217501533.
5. **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
6. **Davuluri.Venkatesh**, G. Himavathi, K. V. Ramesh, *Structural, Magnetic, and Electrical Properties of $\text{Ni}_{0.65}\text{Zn}_{0.35-x}\text{Cu}_x\text{Fe}_2\text{O}_4$ Nano ferrite System*, **Journal of Superconductivity and Novel Magnetism**, Vol**28(6)** (2015). DOI:10.1007/s10948-015-3098-2

List of FDP/Seminars/Conferences/Workshops

- ❖ Organized National webinar on **Recent Activities of Nanomaterials** (NWRAN-2020) on 06-08-2020, Department of Physics, Dr.B.R.Ambedkar University, Srikakulam.
- ❖ Participated in A unique 14 days FDP for Science, Engineering & Arts faculty on **Role of Academia in Sustainable Development** from 25-06-2020 to 08-07-2020 organized by Dr.B.R.Ambedkar University, Srikakulam.

- ❖ Participated In National Faculty Development Program on “**Scilab**” in Association With IIT-Bombay (Remote Learning Through Spoken Tutorial),"from 15th - 19th , June 2020 organized by the Department of Science & Humanities, St PETERS Engineering college, Hyderabad.
- ❖ Participated in National Webinar on **Applications of Chemistry: Soldier and Society**, 09 June 2020, Organized by Dept of Chemistry, Sri YN College, Narsapur.
- ❖ Participated Two Day National Webinar (FDP) on **Analytical and Diagnostic Tools in Chemical and Life Sciences**, 5-6 June 2020, Organized by Andhra University an AP Akademi of Sciences.
- ❖ Participated One Week Online Faculty Development Program on **Materials: Recent Trends & Engineering Applications**, 02-07 June 2020, Organized by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad.
- ❖ Participated in National workshop on **Assessment and Accreditation of HEI’s and Colleges**, 03 Feb 2020 organized by IQAC, Dr. B. R. Ambedkar University, Srikakulam.
- ❖ Participated in National Conference on **Recent Trends in Nanoscience and Nanotechnology (NSRTN-2020)**, 30-31st Jan 2020, organized by Department of Nanotechnology, University college of Sciences, Acharya Nagarjuna University, Guntur, A.P.
- ❖ Participated in National seminar on **Advanced Functional Materials**, 23rd Sep 2019, organized by Department of Chemistry, Acharya Nagarjuna University, Guntur, A.P.
- ❖ Participated in the **International conference on Water, Sanitation and Hygiene-2019(WASH-2019)**, 23rd-24th Feb 2019, organized by Departments of Biotechnology, Social Work, Organic Chemistry and HSS & Basic Sciences Dr. B. R. Ambedkar University, Srikakulam.
- ❖ Participated in the **7-Day Faculty Development Programme** on “Rural Community Engagement” held from 21-27th Jan 2019. Organized by MGNCRE, Hyderabad in collaboration with Dr. B.R. Ambedkar University, Srikakulam.
- ❖ Oral presentation on Effect of Sintering Temperature on Micro Structural and Impedance Spectroscopic Properties of $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ Nano Ferrite in international conference on **functional materials, characterization, solid state physics, power, thermal and combustion energy (FCSPTC)**, April 7-8th 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 $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ 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 25-26th 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

<p>1. Prof. K.V. Ramesh Professor Head of the department Department of Electronics & Physics GITAM Institute of Science GITAM University Visakhapatnam- 530045 Mob: +91-9848292228 Email: kvramesh11@gmail.com</p>	<p>2. Prof. K Ramakrishna Professor Department of Chemistry GITAM Institute of Science GITAM University Visakhapatnam-530045 Mob: +91-9866234551 Email: karipekdir@gmail.com</p>
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