

Name: Dr. N Suresh Kumar
Designation: Assistant Professor
Department: Humanities and Sciences
Mail.I.D: nskumar4u@gmail.com
Experience (in years): Teaching: 14 yrs Research: 8 yrs Others: Nil



1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|------|------------------------|-----------------|---------------------------|
| 1 | Ph.D | 2017 | Nano Ferrites |
| 2 | M.Tech. | 2005 | Energy Management |
| 3 | M.Sc. (Physics) | 2002 | Molecular Bio-Physics |
| 4 | B.Sc. | 1998 | Maths, Physics, Chemistry |

2. Teaching and Learning:

1.1 Teaching Interests:

- Materials Science
- Non conventional energy resources

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Reading Books
- Playing Cricket and Chess
- Listening Music

3.2. CCA/ECA Organized: Nil

3.3. CCA/ECA participated: Nil

3.4. Counseling and Mentoring Activity: Nil

3.5. Committees involved in: College website,

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conferences conducted: Nil

4.2 Conferences Attended:

1). A paper "Structural and magnetic properties of bismuth doped cobalt ferrite nano particles" presented in 4th National conference on "Applied Physics and Materials Science (APMS-2017)", organized by Department of Physics, Vasavi College of Engineering, Hyderabad, during 10-11th March 2017.

2). A paper "XRD, SEM, TEM, EDS & FTIR studies of ZnBi_xFe_{2-x}O₄ nano ferrites synthesized by sol-gel combustion method" presented in Two Day National conference on Innovations and Developments in Emerging Research Trends of Chemical Science & Technology, organized by Department of chemistry, Tara Government College, Sangareddy on 29th – 30th December -2016.

3). A paper "Electrical properties of bismuth doped CoBi_xFe_{2-x}O₄ nano ferrites" presented in International conference on International Conference on Materials Research and Applications (ICMRA-2016), conducted by Department of Physics, CMR Technical Campus, Hyderabad during 11-13th March, 2016.

4). A paper "XRD, SEM & FTIR studies of Cr⁺³ doped Mg-Zn nano ferrites" presented in National conference on "A Two Day National Conference on Recent Trends in Science and

Technology” conducted by Department of Physics, JNTUH College of engineering, Nachupally, Karimnagar, on 25 & 26th February 2015.

5). A poster presented in ”International Conference on Nano, Bio & Material Sciences” about Nano Ferrites, conducted by Dept. of Physics, Nizam College, Osmania University, Hyderabad, on 8, 9 & 10th January 2014.

6). A paper “Effect of Cr⁺³ doping on Structural Properties of Mg – Zn Nano ferrites” presented National conference on “National Conference Nano materials and Nanotechnology” Organized by Department of Physics, JNTUA College of Engineering, Pulivendula, Y.S.R Dist, A.P during 3rd & 4th February, 2012.

1. Workshops attended:

- Design Thinking, for one week workshop conducted by CSE Dept. VNRVJIET in January 2020, at VNR VJIET, Hyderabad.
- Technical writing conducted by H&S Dept. VNRVJIET, talk by Prof. K. Kishore Kumar, IFLU, Hyderabad, August 2019, at VNR VJIET, Hyderabad.
- Outcome Based Training and Assessment Strategies, by B.V. Apparao, NIT Worangal, July-2019, at VNRVJIET, Hyderabad.
- Completed an AICTE approved Faculty Development Program on Applied physics for engineering students, conducted by Dept. of Physics, JNTUH, at JNTUCE, Hyderabad in June-July, 2016.
- Completed an AICTE approved three day workshop on physics lab for engineering students, conducted by Dept. of Physics, JNTUH, at JNTUCE, Hyderabad in July, 2010.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Nil

5.2. Articles / Chapters published in Books: Nil

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided: Nil

5.5. Research Interests:

- Crystallography
- Solar energy and utilization

5.6. Ph.D students:

a) Enrolled: Nil

b) Submitted: Nil

c) Awarded: Nil

5.7. Papers published in reviewed Journals:

1). N. Suresh Kumar, “A study of dielectric relaxation properties of ZnFe_{2-x}BixO₄ nano Ferrites synthesized by sol-gel combustion method” , International Conference on Multifunctional Materials (ICMM-2019), Journal of Physics: **1495** ,(2020) 012015, doi:10.1088/1742-6596/1495/1/012015.

- 2). N. Suresh Kumar, Nityananda Das, Kamal Devlal and S. Abdul Khader, “Dielectric and magnetic studies of Ni-Mg mixed ferrite by combustion method”, AIP Conference Proceedings **2220**, 110043 (2020); <https://doi.org/10.1063/5.0001907>, Published Online: 05 May 2020.
- 3). K. Vijaya Kumar, N. Suresh Kumar and A.T. Raghavender “Structural, Electrical & Magnetic properties of bismuth doped zinc ferrite nano particles”, Materials Focus- Vol.6, pp 1-8, 2017, doi:10.1166/mat.2017.1421 (accepted for publication).
- 4). K. Vijaya Kumar, N. Suresh Kumar, Electrical properties of bismuth doped $\text{CoBi}_x\text{Fe}_{2-x}\text{O}_4$ nano ferrites, Materials today- Proceedings 3 (2016) 4193-4198.
- 5). N. Suresh Kumar, K. Vijaya Kumar, “Effect of Bi^{3+} ion substitution on magnetic properties of cobalt nano ferrites prepared by sol-gel combustion method”, Soft Nanoscience Letters (SNL), 6, 37- 44 (2016), <http://dx.doi.org/10.4236/sn1.2016.63004>.
- 6). N. Suresh Kumar, K. Vijaya Kumar, “Effect of bismuth ion substitution on structural properties of zinc nano ferrite particles,” Processing and Application of Ceramics (PAC), 10[2] (2016) 117-122, DOI: 10.2298/PAC1602117S.
- 7). N. Suresh Kumar, K. Vijaya Kumar, “Synthesis and Structural Properties of Bismuth doped Cobalt Nano Ferrites Prepared by Sol-Gel Combustion Method”, World Journal of Nano Science and Engineering (WJNSE), 5, (2015)140-151. <http://dx.doi.org/10.4236/wjnse.2015.54016>.

6. Awards / Honors received: Nil

7. Motto: