



## Prof G.S.N. Rao

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Address: ,Andhra Pradesh,India - 532001

## Expertise

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### Condensed Matter Physics

Mossbauer Spectroscopy and X ray Diffraction analysis- Developed materials suitable for automobile torque sensor applications

## Work experience

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1. Mrs. A.V.N.College, Vishakhapatnam, A.P., India 2022 — Present  
Dean  
Visakhapatnam
2. Government College for Women, Srikakulam 2016 — 2022  
Professor  
Srikakulam
3. Dr V S Krishna Government Degree & PG College, Visakhapatnam  
2012 — 2016  
Professor  
Visakhapatnam
4. Dr V S Krishna Government Degree & PG College, Visakhapatnam  
2009 — 2012  
Associate Professor  
Visakhapatnam

**Dr V S Krishna Government Degree & PG College, Visakhapatnam  
2004 — 2009**

Assistant Professor  
Visakhapatnam

**6. Govt. Degree College, Salur 2001 — 2004**

Assistant Professor  
VIZAYANAGARAM

**7. Government Junior College Saluru 1992 — 2001**

Junior Lecturer  
VIZIANAGARAM

**8. Government Junior College Amadalavalasa 1990 — 1992**

Junior Lecturer  
SRIKAKULAM

**9. Government junior college Kotturu 1984 — 1990**

Junior Lecturer  
SRIKAKULAM

## Education

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**1. Ph.D - 2009**

Andhra University

**2. M.Phil. - 2004**

Andhra University

**3. M.Sc. - 1983**

Andhra University

**4. B.Sc. - 1980**

Rajah RSRK Rangarao College Bobbili

**5. Intermediate - 1977**

5.

## 6. SSC - 1975

Zilla Parishad High School Balijipeta

## Research Project

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Development of Magnetostrictive material for Automobile Torque sensor applications

Role: 3555

Year 2011, Amount 120000

## Membership In Professional Bodies

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1. Magnetics Society of India, 2014  
Life Member

## Membership In Committees

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## Publication

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1. Improvement of electromagnetic properties of vanadium doped Ni Zn ferrite for high frequency applications

V.Lakshminarayana K Chandramouli G S N Rao

International Journal of Scientific Research in Physics and Applied Sciences, Volume 7(2), Year 2019, Pages 89-92

2. Investigation of structural, magnetic and dielectric properties of Cr<sup>3+</sup> substituted Cu<sub>0.75</sub>Co<sub>0.25</sub>Fe<sub>2-x</sub>O<sub>4</sub> ferrite nanoparticles

Reddi M.S.;Ramesh M.;Sreenivasu T.;Rao G.S.N.;Samatha K.

AIP Conference Proceedings, Volume 1953, Year 2018

3. **Magnetic and magnetostrictive properties of Cu substituted Co-ferrites**

Chandra Sekhar B.;Rao G.S.N.;Caltun O.F.;Dhana Lakshmi B.;Parvatheeswara Rao B.;Subba Rao P.S.V.  
Journal of Magnetism and Magnetic Materials, Volume 398, Year 2016, Pages 59-63

4. **Cation distribution of Ni-Cu substituted Li-ferrites**

Ramesh M.;Rao G.S.N.;Samatha K.;Parvatheeswara Rao B.  
Ceramics International, Volume 41, Year 2015, Pages 1765-1770

5. **Cation Distribution of Cobalt-manganese Ferrite for Torque Sensor Applications**

G.S.N.Rao, B.Parvatheeswararao, O.F.Caltun  
Materials Today: Proceedings, Volume 2, Year 2015, Pages 2491-2495

6. **Mossbauer Spectroscopic study of high magnetostrictive cobalt chromium ferrites for automobile torque sensors**

G. S. N. Rao, B. Parvatheeswara Rao, H. H. Hamdeh  
Procedia Materials Science, Volume 6, Year 2014, Pages 1511-1515

7. **Improved magnetostrictive properties of Co-Mn ferrites for automobile torque sensor applications**

G.S.N.Rao,O.F.Caltun,K.H.Rao,P.S.V.Subba Rao,B.Parvatheeswara Rao  
Journal of Magnetism and Magnetic Materials, Volume 341, Year 2013, Pages 60-64

8. **Future Challenges of perfect CAPCHA**

Abhishek Gedela, G S N Rao  
Proceedings of National Conference on emerging trends in information technology, Volume 1, Year 2013, Pages 95-97

9. **Study of suitable Materials for Torque Sensor Applications: Cobalt Ferrites -Torque Sensor Applications**

G.S.N.Rao  
Study of suitable Materials for Torque Sensor Applications, Volume , Year 2012, Pages

10. **Compositional dependence of magnetostrictive properties of cobalt ferrite**

Rao, G. S.N.;Caltun, O. F.;Rao, K. H.;Parvatheeswara Rao, B.;Hamdeh, H. H.  
AIP Conference Proceedings, Volume 1347, Year 2011, Pages 293-296

11. **Mössbauer and magnetic study of silicon substituted cobalt ferrite**

Rao G.S.N.;Caltun O.F.;Rao K.H.;Parvatheeswara Rao B.;Gupta A.;Rao S.N.R.;Kumar A.M.  
Hyperfine Interactions, Volume 184, Year 2008, Pages 51-55

12. **Influence of silicon and cobalt substitutions on magnetostriction coefficient of cobalt ferrite**

G. S. N. Rao, O. F. Caltun, K. H. Rao,B. Parvatheeswara RaoH. L. WamochoH. H. Hamdeh  
Hyperfine Interactions, Volume 184, Year 2008, Pages 179-184

13. **Enhanced strain derivative of Mn/Si substituted cobalt ferrite**

Rao, G. S.N.;Caltun, O. F.;Rao, K. H.;Parvatheeswara Rao, B.;Wamocho, H. L.;Hamdeh, H. H.

14. **The Effect of Wing Kinematics on Performance and Wake Structure Produced by a Finite-Span Hovering Wing**  
Haibo Dong and Mike Harff and Rajat Mittal  
Journal of Fluid Mechanics, Volume 581, Year 2007, Pages 947--968
15. **The influence of Mn doping level on magnetostriction coefficient of cobalt ferrite**  
O.F.Caltun, G.S.N.Rao, K.H.Rao, BParvatheeswararao, I. Dumitru, Chong-Oh Kim, , Chelo-Gi Kim,  
Journal of Magnetism and Magnetic Materials, Volume 316, Year 2007
16. **Doped cobalt ferrites for stress sensor applications**  
G.S.N.Rao, S.Anandakumar,K.H.Rao, B.Parvatheeswararao  
Proceedings of the 2nd IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2007, Volume , Year 2007, Pages 1186-1189
17. **High magnetostrictive cobalt ferrite for sensor applications**  
Caltun, O. F.;Rao, G. S.N.;Rao, K. H.;Parvatheeswara Rao, B.;Kim, Cheol Gi;Kim, Chong Oh;Dumitru, I.;Lupu, N.;Chiriac, H.  
Sensor Letters, Volume 5, Year 2007, Pages 45-47
18. **Soft chemical synthesis and characterization of Ni<sub>0.65</sub>Zn<sub>0.35</sub>Fe<sub>2</sub>O<sub>4</sub> nanoparticles**  
Parvatheeswara Rao B.;Rao G.S.N.;Mahesh Kumar A.;Rao K.H.;Murthy Y.L.N.;Hong S.M.;Kim C.O.;Kim C.G.  
Journal of Applied Physics, Volume 101, Year 2007
19. **INFLUENCE OF V<sub>2</sub>O<sub>5</sub> ADDITIONS ON THE RESISTIVITY AND DIELECTRIC PROPERTIES OF NICKEL-ZINC FERRITES**  
B. Parvatheeswara Rao, K. H. Rao, G. Sankaranarayana, A. Paduraru a , O. F. Caltun  
Journal of Optoelectronics and Advanced Materials, Volume 7, Year 2005, Pages 697-700