

CURRICULUM VITAE

Personal Information:

Dr. M. SUSHMA REDDI

M. Sc, Ph. D.

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Research Experience:

My research work lies in the field of “Materials Science (Ferrites)”.

Thesis Title: “Systematic Study of Cr Substituted Copper-Cobalt Nano Ferrites”.

Teaching Experience:

From 2018 – till date

Assistant Professor (Ad-hoc) at Dr. B.R. Ambedkar University, Etcherla, Srikakulam.

Responsibilities:

Handling theory and laboratory classes for M.Sc. Physics students.

Educational Qualifications:

- **Ph.D., (Physics) 2018**
Andhra University, Visakhapatnam, India.
 - **M.Sc., (Physics) 2010-2012**
M. R. P. G. College, Vizianagaram, Andhra Pradesh, India.
 - **B.Sc., (Physics) 2007-2010**
Govt. Degree College, Srikakulam, Andhra Pradesh, India.
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Achievements:

- Andhra Pradesh State Eligibility Test (APSET) was qualified in **2012**
 - Selected for UGC-BSR Meritorious Fellowship in 2015 - 2016.
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List of Publications:

1.	M. Sushma Reddi , M. Ramesh, T. Sreenivasu, G.S.N. Rao, K. Samatha, “ <i>Investigation of Structural, magnetic and dielectric properties of Cr³⁺ substituted Cu_{0.75}Co_{0.25}Cr_xFe_{2-x}O₄ ferrite nanoparticles</i> ”, AIP Conference Proceedings , 030202 (2018); doi: 10.1063/1.5032537.
2.	S. Yonatan Mulushoa, M. Tulu Wegayehu, G. Tewodros Aregai, N. Murali, M. Sushma Reddi , B. Vikram Babu, T. Arunamani, K. Samatha, “ <i>Synthesis of spinel MgFe₂O₄ ferrite material and studying its structural and morphological properties using solid state method</i> ”, Chemical Science Transactions , 6 (2017) 653-661.
3.	L. Seeta Devi, K. Vijaya Babu, B. Madhavalatha, M. Sushma Reddi , K. Samatha, V. Veeraiah, “ <i>Structural and Electrochemical Characterizations of Nanostructured Olivine LiNi_{1-x}Co_xPO₄ (x=0.0 and 0.5) Cathode Materials for Lithium-ion Batteries</i> ”, South African Journal of Chemical Engineering , 25 (2018) 42-47.
4.	B. Vikram Babu, K. Vijaya Babu, G. Tewodros Aregai, L. Seeta Devi, B. Madhavi Latha, M. Sushma Reddi , K. Samatha, V. Veeraiah, “ <i>Structural, electrical and magnetic properties of Li₄Ti₅O₁₂ anode material for lithium-ion batteries</i> ”, Results in Physics , 9 (2018) 284-289.

List of Seminars/workshops/Conferences attended

1.	National Conference on “Advanced Functional Materials and Compute Applications in Materials Technology (CAMCAT-2014)” during December 18 th and 19 th , 2014 Organized by the Dept. of Physics and Computer Science, Dr. V. S. Krishna Govt. Degree and P.G. College (A), Visakhapatnam.
2.	3 rd International conference on “Recent Innovations in Science, Engineering and Management (ICRISEM-16)” organized by Sri Venkateswara college of Engineering and Technology, Srikakulam, Andhra Pradesh on 27-feb-2016.

3.	Awareness workshop on “Experimental Research Facilities in Physics” organized by Department of Basic Sciences & Humanities and Social Sciences, JNTUK-University College of Engineering Vizianagaram.
4.	Three days National Level Workshop on “Nanotechnology- Current and Future Scope (NCFS – 2016)” organized by Department of Mechanical Engineering, Sri Sivani College of Engineering on 5-7th October, 2016.
5.	2 nd A.P. Science Congress, 2016 at Andhra Pradesh Academy of Sciences, Amaravati held at P.B. Siddhartha College of Arts and Sciences, Vijayawada during 7-9 th November 2016.
6.	Two days national seminar on “Recent trends in nano science and nano technology on 26 th & 27 th November 2016-Rtnsnt-2016” organized by Department of Physics, M.R. College (autonomous), Vizianagaram.
7.	The Indian Science Congress Association held at Sri Venkateswara University, Tirupati from January 3 to 7, 2017.
8.	One day national seminar on “Recent Advances in Chemical Sciences on 26 th October 2017-RACS-2017” organized by Department of Chemistry, Dr. B.R. Ambedkar University, Srikakulam.
9.	A. P. Science Congress, 2017 on 7-9 th November 2017 held at Andhra University, Visakhapatnam.
10.	2 nd International Conference on Condensed Matter and Applied Physics on 24-25 th November, 2017 held at Bikaner, Rajasthan.
11.	National workshop on advanced techniques related to analytical, molecular, material testing and statistical tools on 27-29 th march, 2018 held at Andhra University, Visakhapatnam.
12.	National seminar on “Physics and Chemistry of Non-Crystalline Materials” on 1 st and 2 nd December-2017, at Kakani Venkata Ratnam College, Nandigama, Andhra Pradesh.

13.	Two days national seminar on “Emerging Trends in Materials Science and Technology (NSETMST-2018)” held on 9 th and 10 th March, 2018 at Department of Physics, Andhra University, Visakhapatnam.
14.	Attended for the faculty development programme from 21-01-2019 to 27-01-2019 at Dr. B.R. Ambedkar University, Etcherla, Andhra Pradesh organized by MGNCRE.
15.	Participated in International Conference on “Water, sanitation and hygiene (WASH-2019)” held on 23 rd -24 th February at Dr. B.R. Ambedkar University, Etcherla, organized by Departments Of Biotechnology, Chemistry, Social work and HSS and Basic sciences.

Skills:

- Strong knowledge and research experience in magnetic materials.
- Experience in the preparation of nanomaterials by sol-gel autocombution, citrate gel autocombution methods.
- Strong background in Synthesis, characterization and analysis of structural, magnetic, electrical and properties of nano ferrites.
- Profficient in Microsoft office, Origin 8.0

Research Interests:

- Synthesis and Characterization of Nanomaterials and their applications.
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DECLARATION:

I, M. Sushma Reddi, hereby declare that the information furnished above is true to the best of my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Place :

Date :

[M. SUSHMA REDDI]