Dr. SARANG RAVINDRA DAF

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CAREER OBJECTIVE: To strike a position where I can use my research and teaching skills and develop it by giving knowledge of whatever I have for my personal and professional growth by continuous learning attitude.

EDUCATIONAL QUALIFICATION:

Degree	University / Board	Year	Percentage / CGPA
M.Sc. (Physics)	**VNIT**, Nagpur	2016	6.27 (62.70%)
B.Sc. (PCM)	R.T.M.N.U, Nagpur	2014	65.11%
HSC	Maharashtra State Board	2011	77.17%
SSC	Maharashtra State Board	2009	90.46%
Ph.D.	R.T.M.N.U, Nagpur	2024	Awarded

EDUCATIONAL ACHIEVEMENT:

- **STATE ELIGIBILITY TEST (UGC-SET) 2018 qualified**
- Post Graduate Diploma **(PGD)** in NANOSCIENCE AND NANOTECHNOLOGY

EXPERIENCE:

- Currently working as Ad-hoc Assistant Professor at **Shri. Shivaji Science College, Nagpur**
- Formally worked as an **Approved Assistance Professor** for **M.Sc.** (**PG**) at **VMV Commerce, JMT Arts & JJP Science College, Nagpur.**
- Ad-Hoc Lecturer for **M.Sc.** at **Shri Shivaji Science College, Nagpur.**
- CHB Lecturer for **B.Sc.** at **R.S. Bidkar College, Hinganghat.**

RESEARCH AND TECHNICAL SKILLS:

- **Research Area:** Nanoscience and Nano-ferrites.
- Research Paper Published in SCOPUS-SCI indexed Journal (05), UGC Care Listed Journal (02) and Communicated (03)
- Books Published (02)
- **Computational Skills:** MS Word, MS Excel, MS PowerPoint. Mathematical Modelling using MAPLE.

HOBBIES:

- Reading books and Novels.

PERSONAL DETAILS:

- **Father Name:** Ravindra R. Daf
- **Mother Name:** Sunita R. Daf
- **Date of Birth:** 27th July 1993
- **Languages Known:** Marathi, English, Hindi
- **Nationality:** INDIAN
- **Gender:** Male
- **Marital status:** Single

Date: -
Place: - Nagpur **SARANG R. DAF**

Research Publications and Presentations

Citations- 11, h-index-02

SCI-SCOPUS indexed Journals (05)

1. Physical, spectroscopic and antibacterial investigation of Mg0. 3Zn0. 5Mn0. 2Fe2O4 via temperature dependent hydrothermal approach.
   SR Daf, DS Badwaik, SM Suryawanshi, VS Harode, BR Balbudhe, Journal of Magnetism and Magnetic Materials 567, 170346
2. Effect of hydrothermal processing duration on physical and antimicrobial properties of Mg0. 2Zn0. 5Mn0. 3 Fe2O4 ferrite nanoparticles.
   SR Daf, DS Badwaik, SM Suryawanshi, GD Kale, YD Choudhari, Materials Science and Engineering: B 298, 116879
3. Structural, surface, magnetic, and dielectric properties of Ni0. 3Cu0. 3Zn0. 4Fe1. 4Cr0. 6O4 spinel ferrite nanocrystals prepared by sol-gel auto combustion route.
   SM Suryawanshi, KV Chandekar, DS Badwaik, VV Warhate, **SR Daf**, NM Gahane, ... Inorganic Chemistry Communications 156, 111204
4. Structural and magnetic investigation on Cr3+ substituted Mn0. 25Cu0. 25Zn0. 5Fe2O4 nano ferrites by co-precipitation route.
   BR Balbudhe, DS Badwaik, **SR Daf**, RS Wandhare, A Sharma…, IOP Conference Series: Earth and Environmental Science 1281 (1), 012042
5. Structural and magnetic behaviour of temperature influenced Mn0. 5Zn0. 25Cu0. 25Fe2O4 spinel nanoparticles by co-precipitation route
   Balbudhe, Bhaurao R., Dilip S. Badwaik, Shrikant M. Suryawanshi, **Sarang R. Daf**, Lalit D. Channe, Amit V. Gongal, and Yograj D. Choudhari., " *Journal of Materials Science: Materials in Electronics* 35, no. 12 (2024): 818.

UGC Care listed (02)

1. Impingement of Co Substitution on Structural, Dielectric and Magnetic Behavior of NiZn Mixed Nano Ferrites, DS Badwaik, SM Suryawanshi, **SR Daf**, GD Kale, BR Balbudhe
   Alochana Chakra Journal, Volume IX, Issue V, May/2020, ISSN NO: 2231-3990, Page No:67.

2. "Structural and Magnetic investigation of Cu2+ substituted Mn-Zn spinel ferrite synthesized using hydrothermal route." Sontakke, Pravin M., **Sarang R. Daf**, Dilip S. Badwaik, Shrikant M. Suryawanshi, and Amit V. Gongal. " *International Journal of Architecture, Engineering and Construction,* 11, no. 2 (2022): 61-73.

Book Chapters (02)

1. A COMPREHENSIVE INVESTIGATION OF THE STRUCTURAL AND MAGNETIC BEHAVIOR OF CTAB-COATED NiCuZn SPINEL NANO FERRITE, Futuristic Trends in Chemical, Material Sciences & Nano Technology, e-ISBN: 978-93-5747-640-9, IIP Series, Volume 3, Book 18, Chapter 41

2. Consequence of pH Variation on Structural and Magnetic Properties of Ni0.3Cu0.3Zn0.4Fe1.6Cr0.4O4 Nano Ferrite, “Tracing The Evolution And Advance Trends In Science”

Conferences (02)

1. International E-Conference on Sustainable and Futuristic Materials (SFM-2021) held during 29-30th November, 2021 organized by International Research Centre and Department of Chemistry, Kalasalingam Academy of Research and Education, Krishnankoil, Department of Chemistry, J. M. Patel Arts, Commerce & Science College, Bhandara, and Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur. Entitled “The Temperature Dependent Structural, Vibrational Spectroscopic and Superparamagnetic Properties of MgZnMn Ferrite Nanoparticles”.

2. INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS FOR PHYSICAL, CHEMICAL AND BIOLOGICAL APPLICATION, Rayat Shikshan Sanstha’s Karmveer Bhaurao Patil College, Washi, Navi Mumbai. Entitled “Effect of hydrothermal processing duration on physical and antimicrobial properties of MgZnMn Spinel ferrite nanoparticles”

Books (02)

1. EXPERIMENTS IN PHYSICS, B.Sc. SEMESTER I (NEP), ISBN no. 978-81-957599-0-3, ENVINZOA Pub, August 2024

2. BASIC OF NANOSCIENCE AND NANOTECHNOLOGY, ISBN no. 978-81-957599-1-0, ENVINZOA Pub, October 2024