

1. Personal Details**NARESH NATHURAM SARKAR****Assistant Professor in Physics**

Shri Shivaji Education Society, Amravati's

Shri Shivaji Science College,

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Indian

Date of Birth

12 January 1985

2. Educational Qualifications

Degree	Subjects	Marks in %	Institute Board/ University	Year
Ph.D.	Magnetic Material		RTM Nagpur University, Nagpur	2019
PGDNSNT.	Nanoscience Nanotechnology	60%	RTM Nagpur University, Nagpur	2010
M.Sc.	Physics	58 %	RTM Nagpur University, Nagpur	2009
B.Sc.	Phys. Chem. & Maths.	48.28 %	RTM Nagpur University, Nagpur	2006
B.Ed.	Physics & Math	53%	RTM Nagpur University, Nagpur	2012

3. Area of Specialization

- **Solid State Physics**
- **Material Science**
- **Nano-materials**
- **Ferrite**

4. Employment Profile

4.1 Teaching Positions

- **Assistant Professor in Physics**
 - **Shri Shivaji Science College, AMRAVATI (MS)**
 - (from 21/09/2019 to this date)
- **Assistant Professor (Ad-hoc/ CHB)**
 - **Sevadal Mahila Mahavidyalay Nagpur (M.S)**
(For the Academic Session 2009-10, 2011-12, 2012-13)
 - **Dr. Ambedkar College Deekshbhoomi Nagpur (M.S)**
(For the Academic Session of 2013-14, 2014-15, 2015-16, 2016-17, 2017-18)

4.2 Administrative Positions

College Committees

- Member : College News Letter
- Placement Committee

5. Membership of Professional Societies/NGO:

Name of society/Association/Others	Post held
• REST Society for Research International	Life Member
• STAMI (Society for technologically advance material for India)	Life Member
• Nagpur University Teachers' Association (NUTA)	Life Member

6. Research Accomplishments:

1. **Research Experience:** 5 Yrs.
2. **Project Guiding (M.Sc. Students) Experience:** 5 Yrs.
3. **Research Publications**

International Journals	17(Annexure I)
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4. **Research Projects Submitted** 02
5. **Research Papers Presented in Conferences/Seminars**

International	10
National	08
8. **Conferences/ Seminars Attended**

International	18
National	08
State/Regional	02
9. **Chapters in Books**

Publisher	
International (USA)	01
10. **Research Metrics:** <https://scholar.google.com/citations?hl=en&authuser=1&user=DwUkiSsAAAAJ>
 - Citations: 27, h-index: 4 (Google Scholar)
11. **Resource Person/ Invited Talks/Science popularization/ Guest Lectures:** 01

(Delivered an Invited Talk on Nano-electronics At Sardar Patel Science College Chandrapur Maharashtra)

7. Courses Completed

- Faculty development program for online technology for teaching learning JIT Nagpur
- One week Faculty development program on “Recent advance in Science and Technology” at Haryana
- Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education" Delhi
- Learning Physics through simple experiment At IIT Kanpur (02 April – 10 June 2020)
- Online International lecture series on Bridging Research perspective 15 -17 July 2020 at GVISH Amravati

8. Courses Conducted

- Online Certificate Course “Nano-Material Synthesis” (27th July to 14th August 2020)

9. Workshops/Training Programs attended:

- Three Days Online Research Methodology from 12 April, 2020 to 14 April, 2020 organized by REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India
- International online workshop on Nanomaterial synthesis is emerging facet of the world Organized by late Pushpadevi Patil College of Arts and Science Risod on 20th May 2020

10. Other:

Expertise in X-Ray Diffractometer Characteristics and Instrumentation operating also expert in Rietveld refinement of XRD data and material synthesis technique by various methods, some of the M.Sc. Students successfully submitted their project under my supervision.

Date: 07/12/2020

Place: Amravati

Naresh Nathuram Sarkar

NNEXURE I

RESEARCH, PUBLICATIONS

Publications (List of papers published in SCI Journals, in year wise.)

Sr. No	Authors	Title	Name of Journal	Volume	Page	Year	Link of the article
1	N.N Sarkar K.G Rewatkar V.M Nanoti	A Review of Nanoferrites: Synthesis and Application in Hyperthermia	International Journal of Advanced Scientific and Technical Research	5	69-75	2015	http://www.rpublication.com/ijst/index.html
2	N. N. Sarkar P. J. Chaware, A. P. Bhat, K. G. Rewatkar	Role of Thickness and Surface Recombination on Simulation of Solar Cell using Pc1D	International Journal of Advanced Scientific and Technical Research	5	11-14	2015	http://www.rpublication.com/ijst/index.html
3	N.N Sarkar K.G Rewatkar V.M Nanoti	Super-paramagnetic Iron Oxide Nanoparticles for Biomedical (Hyperthermia) Applications	National Conference on Modern Materials, Devices and Applications	---	180-184	2015	
4	N.N Sarkar K.G Rewatkar V.M Nanoti	Structural and Magnetic Study of Zr ⁴⁺ Substituted Magnesium Ferrite Nanoparticles	Journal of Physical Sciences	22	107-113	2017	http://inet.vidyasagar.ac.in:8080/jspui/bitstream/123456789/1793/1/JPS-v16-art9.pdf
5	N.N Sarkar K.G Rewatkar V.M Nanoti	Structural and magnetic properties of zr-substituted ni zn co ferrite nanoparticle	International Journal of Advance and Innovative Research	4	94-97	2017	
6	N.N Sarkar K.G Rewatkar V.M Nanoti	Structural and magnetic studies of (Ni _{0.5} M _{0.5} Fe ₂ O ₄) where M D Zn, Cu	Ferroelectrics (Taylor & Francis)	519	209-212	2017	https://www.tandfonline.com/doi/abs/10.1080/00150193.2017.1361262?journalCode=gfer20
7	N.N Sarkar K.G Rewatkar V.M Nanoti	Cation Distribution of Zn _{0.5} Me _{0.5} Fe ₂ O ₄ (Me = Co, Ni and Cu) on the Basis of Rietveld Refinement and Magnetization Measurement.	Material Science Research India	14	169-175	2017	http://www.materialsciencejournal.org/vol14no2/cation-distribution-of-zn0-5me0-5fe2o4-me-co-ni-and-cu-on-the-basis-of-rietveld-refinement-and-magnetization-measurement/
8	N.N Sarkar K.G Rewatkar V.M Nanoti	Structural, Magnetic-Electrical Behavior of Zr substituted Ni-Zn Spinel Ferrite	Research Journal of Science and Technology	10	1-6	2018	http://www.indianjournals.com/ijor.aspx?target=ijor:rjst&volume=10&issue=1&article=003
9	N.N	Effect of Zr ⁴⁺	Indian	8	109-	2018	https://www.indianjo

	Sarkar K.G Rewatkar V.M Nanoti	doping on curie temperature, structural and magnetic properties of Mg-Cr nanoferrite	J.Sci.Res.		115		urnals.com/ijor.aspx?target=ijor:ijsr1&volume=8&issue=2&article=021
10	N.N Sarkar K.G Rewatkar V.M Nanoti	Electrical resistivity studies of zr-mg doped chromium spinel ferrites	International Journal of Advanced Research Trends in Engineering and Technology	5	461-465	2018	https://www.google.com/search?q=Electrical+resistivity+studies+of+zr-mg+doped+chromium+spinel+ferrites&rlz=1C1NHXL_enIN825IN825&oq=Electrical+resistivity+studies+of+zr-mg+doped+chromium+spinel+ferrites&aqs=chrome..69i57.18405j0j4&sourceid=chrome&ie=UTF-8
11	S. B. Bankar, N. S. Meshram N. N. Sarkar, H. S. Ahamad, S. J. Dhobale, and K. G. Rewatkar	Synthesis of nanocrystalline $\text{Ca}_2\text{Cu}_2\text{Fe}_{12}\text{O}_{22}$ Y-type hexaferrites by the sol-gel combustion method in metal nitrates system	Ferroelectrics (Taylor & Francis)	526	187-192	2018	https://www.tandfonline.com/doi/abs/10.1080/00150193.2017.1360708
12	N. N. Sarkar K.G. Rewatkar	Effect of Ni ²⁺ Substitution on Structural and Electrical Behaviour of Nano-Size Cadmium Ferrite	Materials Today: Proceedings (Elsevier)	5/10P3	22669-22674	2017	https://www.sciencedirect.com/science/article/pii/S2214785318317760
13	N. N. Sarkar S. A. Tirpude, P. S. Sawadh & K. G. Rewatkar	Magnetic and Structural Investigation of $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ (x = 0, 0.6, 0.8, 1) Spinel Ferrite Synthesized by Sol-Gel Auto Combustion Method	Journal of Physical Sciences	23	111-115	2018	http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/2526
14	N. N. Sarkar S. A. Tirpude, P. S. Sawadh & K. G.	Effect of Cobalt and Nickel Substitution on Structural and Magnetic Properties of Spinel Ferrite	Integrated Ferroelectrics	23	61-66	2019	https://www.tandfonline.com/doi/abs/10.1080/10584587.2019.1674966

	Rewatkar						
15	N.N Sarkar Saumya Giri K.G Rewatkar	Influence of Aluminium ion substitution on Structural and Magnetic Properties of nano-structured BaFe ₁₂ O ₁₉ Powder	Dogo Rangsang Research Journal (UGC Care Group I Journal)	10	15-25	2020	http://www.dogorangsang.org/
16	N.N Sarkar S.M Butte, K.G Rewatka	Synthesis and Magnetic studies of Co - Sn doped Nanoscale Calcium Hexaferrites	Journal of Physical Sciences Vidyasagar Central University (W.B) India	25	57-67	2020	www.vidyasagar.ac.in/publication/journal

1. Books/Chapters Published

Sr. No	Title	Author's Name	Publisher	Year of Publication	Link of the article
1	Soft Ferrite: A Brief Review on Structural, Magnetic Behavior of Nanosize Spinel Ferrites	N.N Sarkar	Materials Research Forum LLC <i>@_United States of America (USA)</i>	2018	https://www.mrforum.com/product/9781945291692-9/