

## Curricular Vitae



**Dr. Dhananjay Natthuji Bhoyar**

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## Personal Details

Name	:-	<b>Bhoyar Dhananjay Natthuji</b>
Father's Name	:-	<b>Bhoyar Natthuji Shamrao</b>
Mother's Name	:-	<b>Bhoyar Vasudha Natthuji</b>
Date of Birth	:-	<b>31<sup>st</sup> December, 1990</b>
Age	:-	<b>35 years</b>
Sex	:-	<b>Male</b>
Marital status	:-	<b>Married</b>
Nationality	:-	<b>Indian</b>
Language Known	:-	<b>English, Marathi, Hindi</b>
Religion	:-	<b>Hinduism</b>
Social Category	:-	<b>Special Backward Category (SBC)</b>
E-mail	:-	<b><u><a href="mailto:dnb140@gmail.com">dnb140@gmail.com</a></u></b>
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## Educational Qualification

Examination pass	Discipline	University/ Board	Percentages	Class/ Division	Year of passing
SET (Physics)	Science	Savitribai Phule Pune University Pune	-	-	2021
Ph.D. (physics)	Science	Dr. Babasaheb Ambedkar Marathwada University Aurangabad			2019
B.Ed. (Physics & math)	Science	Sant Gadage Baba Amravati University, Amravati	61.70%	I <sup>St</sup>	2016
M.Sc. (Physics)	Science	Dr. Babasaheb Ambedkar Marathwada University Aurangabad	7.17 CGPA	A <sup>+</sup>	2013
B.Sc.	Science	Sant Gadage Baba Amravati University, Amravati	48.37%	II <sup>nd</sup>	2011
H.S.C.	Science + Vocational	Maharashtra State Board	66.33%	I <sup>St</sup>	2008
S.S.C.	General	Maharashtra State Board	69.73%	I <sup>St</sup>	2006

## Research experience

Work as a research scholar in department of Physics, Dr. Babasaheb Ambedkar Marathwada University Aurangabad during December 2014 to January 2019.

## Research interest

- Perovskite oxide
- Ferroelectric material
- Multiferroic
- Nanomaterial
- Ferromagnetic material
- Ferrite

## Research publications

International / National Journals : 14 (Annexure-I)  
International / National Conferences : 08 (Annexure-I)  
Total : 22

**Total number of Seminars / workshops / Conferences Attended- Participated: 09**

## **Extra - Curricular Activity**

- Life member of Indian Science Congress Association (ISCA).
- Participated in National Service Scheme (NSS) during 2008-10.
- Participated Maharashtra cadet Corps (MCC) during 2003-05.

## **Experience and Skills**

- I have two year teaching experience on junior college Shiv chhatrapti college Aurangabad during 2013-14, 2014-15.
- Also teaching experience in privet coaching classes from 2013-2019.
- Synthesis of nanoparticles by sol-gel auto- combustion method.
- Analysis different characterization data of nanoparticles.
- Handling computer software such as Microsoft office (Word, Excel, PowerPoint etc.), Origin, powder-X, FullProf, Image J software etc.
- I have complete my H.S.C. in vocational science (Electrical maintains)

## **DECLARATION**

**I hereby declare that all the information furnished above is true to the best of my knowledge and belief.**

DATE :     /     /

PLACE :

**BHOYAR DHANANJAY NATTHUJI**

Appendix- I

## List of publication International/ National Journal

- “Low-temperature H<sub>2</sub>S detection using Fe-doped SnO<sub>2</sub>/rGO nanocomposite sensor”. NB Thakare, **D. N. Bhojar**, UP Gawai, VS Kalyamwar, K. B. Raulkar, P. S. Bodkhef and G. T. Lamdhade RSC, 2025, Published by the Royal Society of Chemistry.2025, 15, 26308–26320, Accepted 9th July 2025.
- Electron Trajectories of Electromagnetic Wave Undulator and Reverse Axial Field, Vijay Huse, Prafull Padgha1, **Dhananjay Bhojar**, Bramh Prakash, IJSRST Vol-12 issue -8 p. 769-772, 12 March 2025.
- “Structural , infrared, magnetic and ferroelectric properties of Sr<sub>0.5</sub>Ba<sub>0.5</sub>Ti<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub> nanoceramics: Modification via trivalent Fe ion doping” **Dhananjay Natthuji Bhojar**, Sandeep B. Somvanshi,, Prashant B. Kharat, A. A. Paindit, K. M. Jadhav, Physica B: Physics of Condensed Matter, vol. 581, 15 march 2020, 411944
- “ Multiferroic Fe<sup>3+</sup> ion doped BaTiO<sub>3</sub> Pervoskite Nanoceramics: Structural, Optical, Electrical and Dielectric Investigations” **Dhananjay N. Bhojar**, sandeep B. Somvanshi, P. B. Nalle, V. K. Mande, A. A. Pandit, K. M. Jadhav, Journal of Physics: Conference Series, 1644 (2020) 012058 IOP Publication
- “Doping Effect of Fe Ions on the Structural, Electrical, and Magnetic Properties of SrTiO<sub>3</sub> Nanoceramic Matrix” **D.N. Bhojar**, J.S. Kounsalye, .P.P. Khirade, A.A. Pandit, K.M. Jadhav, *Journal of Superconductivity and Novel Magnetism*, 1-12 (2018)
- “Investigation of Structural, Electrical and Magnetic Behavior of SrTiO<sub>3</sub> Influence of Fe Ions” **Dhananjay Natthuji Bhojar**, Mahendra Shisode, Prashant B. Kharat, K. M. Jadhav, *Journal of Chemical, Biological and Physical Sciences* (2018)
- “Effect of Zn<sup>2+</sup>–Cr<sup>3+</sup> substitution on structural, morphological, magnetic and electrical properties of NiFe<sub>2</sub>O<sub>4</sub> ferrite nanoparticles” V.K. Mande, **D.N. Bhojar**, S.K. Vyawahare, K.M. Jadhav, *Journal of Materials Science: Materials in Electronics* 29 (17), 15259-15270 (2018)
- “Radiation-induced modifications in structural, electrical and dielectric properties of Ti<sup>4+</sup> ions substituted Li<sub>0.5</sub>Fe<sub>2.5</sub>O<sub>4</sub> nanoparticles” J.S. Kounsalye, P.B. Kharat, **D.N. Bhojar**, K.M. Jadhav, *Journal of Materials Science: Materials in Electronics* 29 (10), 8601-8609 (2018)
- “Structural, Microstructural, Magnetic, and Ferroelectric Properties of Ba<sup>2+</sup>-Doped BiFeO<sub>3</sub> Nanocrystalline Multiferroic Material” M.V. Shisode, **D.N. Bhojar**, P.P. Khirade, K.M. Jadhav, *Journal of Superconductivity and Novel Magnetism*, 1-9 (2017)

- “Structural and multiferroic properties of Ba<sup>2+</sup> doped BiFeO<sub>3</sub> nanoparticles synthesized via sol-gel method” M.V. Shisode, P.B. Kharat, **D.N. Bhoyar**, V. Vinayak, M.K. Babrekar, K.M. Jadhav, *AIP Conference Proceedings 1953 (1)*, 030276 (2018)
- “Effect of RE (Nd<sup>3+</sup>, Sm<sup>3+</sup>) oxide on structural, optical properties of Na<sub>2</sub>O-Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub> glass system” M.M. Hivrekar, **D.N. Bhoyar**, V.K. Mande, V.V. Dhole, M.B. Solunke, K.M. Jadhav, *AIP Conference Proceedings 1953 (1)*, 090074 (2018)
- “Synthesis and characterization of water based NiFe<sub>2</sub>O<sub>4</sub> ferrofluid” P.B. Kharat, M.V. Shisode, S.D. Birajdar, **D.N. Bhoyar**, K.M. Jadhav, *AIP Conference Proceedings 1832 (1)*, 050122 (2017)
- “Structural and Dielectrical Properties of Pure And Strontium Doped Barium Titanate Nanoparticles By Sol-Gel Auto Combustion Method” P.M. Kshirsagar, P.P. Khirade, **D.N. Bhoyar**, S.J. Shukla, K.M. Jadhav, *International Journal of Innovative Science, Engineering & Technology 4 (2)* (2017)
- “Tartaric Acid a Novel Fuel Approach: Synthesis and Characterization of CoFe<sub>2</sub>O<sub>4</sub> Nano Particles” G. Kale, A.V. Humbe, P.B. Kharat, **D.N. Bhoyar**, K.M. Jadhav, *BIONANO FRONTIER 8 (3)*, 146-148 (2015)

## **List of Conference / Seminar / Workshop Attended**

- “National Level Seminar: Recent Advances in Physical Science” held on 14<sup>th</sup> Feb 2018 organized by S.B.E.S. College of Science, Aurangabad. Sponsored by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- “International Conference on Advances in Functional Materials (ICAFM-2018)” held 12<sup>th</sup> & 13<sup>th</sup> January 2018 organized by KTHM college Nashik in association with Savitribai Phule Pune University, Pune, India.
- “National conference on Recent Trends and Development in Material Science-2017” (NCRTDMS-2017) held 16<sup>th</sup> Dec. 2017. Organized by Indraraj Arts, Commerce and Science College, Sillod. Dist. Aurangabad.
- UGC-SAP National Seminar on “Materials Science, X-ray and Gamma Ray Spectroscopies” organized by Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad held during March 29<sup>th</sup> and 30<sup>th</sup>, 2017.
- “National conference on Innovation in Nanomaterials and Nanotechnology -2017” held on 21<sup>st</sup> January 2017 at Rajasri Shahu Arts, Commerce and Science College, Pathri, Tq. Phulambri, Dist: Aurangabad.
- “104<sup>th</sup> Indian Science Congress 2017” held at S.V. University, Tirupati from January 3<sup>th</sup> to 7<sup>th</sup> 2017.
- State level seminar on “Nanobasics and its Applications” held at R. B. Narayanrao Borawake College, Shrirampur, Dist: Ahmednagar (M.S.) by department of physics on 18<sup>th</sup> and 19<sup>th</sup> January 2016.
- “International Conference on Functional Materials and Microwaves (ICFMM-2015)” during 28-30 Dec. 2015 organized by Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- One day author workshop on “Scientific writing & Publishing Scholarly Articles” on 04 November 2015 by KRC (university Library) Dr. Babasaheb Ambedkar Marathwada University, Aurangabad & Springer Journal.

**Academic Staff College Orientation / Refresher Course attended during year:**

Sr. No.	Name of the Course / Summer School	Place/ Organizer	Duration	Sponsoring Agency	Obtained Grade
1	Faculty Induction Program (Gurudakshta)	HRDC Pune University	1 - 31 August 2021	HRDC Pune University	A
2	Information and Communication Technology	Online Rani Durgawati University, Jabalpur. M.P	09 to 21 Jan 2023	UGC HRDC Rani Durgawati University, Jabalpur, M.P	A+
3	NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME, UGC, Malaviya Mission Teacher Training Centre (MM-TTC),	Rani Durgawati Vishwavidyalaya, Jabalpur, M.P.	04.03.2024 to 12.03.2024	Rani Durgawati Vishwavidyalaya, Jabalpur, M.P.	
4	NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME, UGC-Malaviya Mission Teacher Training Centre	Doctor Harisingh Gour Vishwavidyalaya, Sagar, MP	16 October - 31 October 2025	Doctor Harisingh Gour Vishwavidyalaya, Sagar, MP	A+

**Publications other than journal articles (books, chapters in books)**

Sr. No.	Title with page nos./ Chapter with page no.	Book Title, editor & publisher	Publication International/ National/ Local	ISSN/ ISBN No.	No. of Co-authors	Whether you are the main author
1	On axis Harmonics Generation in Planer Electromagnet Undulator	Materials for Optoelectronic Applications Statperson Publishing Corporation	International	978-1-387-42404-7	2	No
2	Synthesis of ZnO Nanoparticles by Chemical Precipitation Method, 68-71	UGC Sponsored National Conference on Recent Advancements in Science & Technology	National	978-81-19931-25-5	5	No
3	Recent Progresses in Gas Sensors Based on Reduced Graphene Oxide-ZnO Composites, 287-293	UGC Sponsored National Conference on Recent Advancements in Science & Technology	National	978-81-19931-25-5	4	No