

BIODATA

NAME : RAVINDRA GOKUL DORIK
DESIGNATION : PROFFSER
DEPARTMENT : PHYSICS
QUALIFICATION : M.sc, B.Ed, Ph.D

E-MAIL : ravindradorik@vivekanandcollege.edu.in

TEACHING EXPERIENCE : 26 year

RESEARCH EXPERIENCE : 15 year

RESEARCH ARTICLES PUBLISHED :

1. Effect of Cr³⁺ substitution on some physical properties of CdFe₂O₄, Indian journal of pure and applied physics Vol.35.PP 594 To 597 Sept. 1997
2. Bulk magnetic and electrical properties of Zn_xCo_{1-x} Fe₂O₄ prepared by Co-precipitation technique. Asian journal of physics Vol.6, Nos 1&2. PP 231 To 235 1997
3. Structural and magnetic properties of Co_{1+y}Sn_y Fe_{2-2y-x} Cr_xO₄ Ferrite system. Bulletin of material science Vol. 26,No.5 PP 517 To521 .Aug.2003
4. Effect of aluminum substitution on the structural and magnetic properties of cobalt ferrite Synthesized by sol-gel auto combustion process. Physica b Vol. 406 PP. 4350 To 4354 Aug. 2011
5. Effect of Zinc substitution on physical properties of polycrystalline nickel ferrite nano particles. Review of Research Vol.1 Issue IX PP 1 TO 4 June 2012.
6. Synthesis of magnesium ferrite nano particles and their Structural and magnetic properties. Review of research Vol.1 Issue IX PP 1 TO 4 June 2012
7. Magnetic properties of In³⁺ substituted yttrium iron garnet (YIG)] Review of research Vol.1 Issue IX PP 1 TO 4 June 2012

8. Ultrasonic investigations of CuO Nano particles dispersed in PVA matrix. Bionano frontier Vol.6(4) PP 205 To 207 Oct. 2013
9. Studies on molecular interaction in enriched antioxidant Piper Nigram with Nacl through ultrasonic interferometer. International journal of advanced research in basic and applied science. Vol. 2, Issue 1 , PP 29 to 31 July 2015
10. Ultrasonic investigation of drug piper nigrum in metal ions at 303.15K temperature. Bionano frontier Vol.8 (3) Dec. 2015
11. Synthesis, structural and magnetic characterization of NiFe₂O₄ nano particles prepared using urea as a fuel. International journal of advanced research in basic and applied science. Jan 2016
12. Effect of drug piper nigrum on magnesium chloride at varying concentration and temperature through ultrasonic method : A thermo acoustic study. Cogent physics Vol. 3 PP. 1 To 18 Nov 2016
13. Effect of drug pipernigrum on physico- chemical properties of Zinc Chloride at varying concentration and temperature investigated through ultrasonic tool. Cogent chemistry Vol. 3 PP. 1 To 15, July 2016
14. Urea assisted synthesis of Ni_{1-x}Zn_xFe₂O₄ (0 ≤ x ≤ 0.8): Magnetic and Mossbauer investigations Journals of alloy and compounds. Jan 2017
15. Structural and micro structural investigations on AL Doped Y₃Fe₅O₁₂ garnet nano particles synthesized by sol-gel auto combustion technique. International journal of engineering sciences & research technology Vol. 6(7) PP 642 To 647 July 2017
16. Sol-gel Auto Combustion Synthesis, Structural and Micro Structural Investigations on Cr³⁺ Doped Y₃Fe₅O₁₂ Garnet Nano particles International advanced research journal in science engineering and technology. Vol.4, Issue 7 PP 235 To 239, July 2017
17. Acoustical and Excess Parameters in Binary Liquid Mixture at Temperature 303.15 K Journal of pure and applied Ultrasonics Vol. 39 PP 1 To 7, Jan 2017
18. Acoustical and Excess Parameters studies of piperine with Mgcl₂ Journal of pure and applied Ultrasonics Vol. 41 PP 27-35 Apr. 2019

RESEARCH PAPER PRESENTED :

1. "Susceptibility and magnetisation studies of Mn^{4+} substituted $NiFe_2O_4$ system" **International** Fifth iumrs int. conf Bangalore 13-16 OCT.1998
2. "X-ray, infrared & magnetic studies of Mn^{4+} substituted nickel ferrite" **International** Fifth iumrs int. conf BANGLORE 13-16 OCT.1998
3. "D.C. Resistivity & thermoelectric power studies of Zn substituted $Co_{1.5}Mn_{0.5}FeO_4$ system" **National** Shivaji university KOLHAPUR FEB-1999
4. "Effect of Zn^{2+} dilution on the magnetic properties of $NiFe_2O_4$ " **National** NCANDT-2010 AHMEDPUR 2010
5. "Effect of gallium and chromium co substitution on magnetic and Mossbauer properties of yttrium iron garnet" **National** Dept. of Physics V.P. COLLEGE VAIJAPUR 19-30 DEC.2011
6. "Characterization & magnetic properties of nano crystalline $MgFe_2O_4$ powder prepared by sol gel auto combustion method." **International** Dept of physics shivaji university Kolhapur 17-19JAN.2012
7. "X-ray and magnetic studies of co- substituted yttrium iron garnet" **State** DEPT OF PHYSICS C.T.BORA COLLEGE SHIRUR PUNE 20-21 JAN 2012
8. "The effect of quenching on structural & magnetic properties of copper ferrite nano particles" **National** Dept of physics school of sciences Gujarat university AHMEDABAD 3-4 FEB.2012
9. "Improvement of magnetic properties of cobalt ferrite" **National** Dept of nanotechnology DR. B.A.M.U.AURANGABAD 16-17FEB.2012
10. "Electrical properties of co-substituted yttrium iron garnets" **National** Dept of nanotechnology DR. B.A.M.U. A'BAD 16-17FEB.2012
11. "Magnetic properties of Al-Cr-Co substituted yttrium iron garnet" **National** Sant Gadgebaba Amravati university AMRAVATI. 29-30 MAY.2012
12. "Antioxidant activity of extracted black pepper (*Piper nigrum* L) fruits with metal oxides through ultrasonic investigation" **National** Ahemadpur 5-6 Sep 2014
13. "Synthesis and characterization of Mn-Zn ferrite nano particles synthesized by sol-gel auto-combustion method" **National** National conference on material synthesis for device level application, R.P. College Osmanabad 29- 30 Jan 2015
14. "Synthesis, X-ray diffraction and cation distribution studies on cobalt ferrite nano crystals" **International** Pandharpur 09-11 March2015

15. "Impact of synthesis route on structural properties of chromium substituted $MgFe_2O_4$ "
International Pandharpur March 2015
16. "Effect of samarium doping in mixed Ni-Zn spinel ferrite" **National** , ,NCINMT -21
JAN 2017,rajshree shahu college Pathri.
17. "Quenching effect on magnetic properties of Co- ferrite Nano particles" **National**
RTDMS-2017 Dept. of Physics Indraraj College Sillod
18. "Structural and magnetic characterization of $Y_3Fe_5O_{12}$ garnet Nano particles" **National**
NCRTDMS- 017Dept. of Physics Indraraj College Sillod.
19. Synthesis, structural and Magnetic Properties of zinc ferrite nano-crystals **International**
ICNHW-2018 H.V. Desai college pune

RESEARCH STUDENTS : 1) REGISTERED - (01.)
2) THESIS SUBMITTED - (01.)
3) AWARDED - (04.)

RESEARCH PROJECT
/ SURVEY : MINOR
1) COMPLETED -(01.)
FUNDING AGENCY: UGC.

MEMBERSHIP OF PROFESSIONAL BODIES: BAMUCTO

ANY OTHER : -- worked as a N.S.S.-P.O., Working as a convener student support and coordination committee and student grievance redressal cell.

Ravindra Gokul Dorik