Dr. D.Geetha
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Present Position

Assistant Professor, Department of Physics, Madras Institute of Technology, Anna University, Chennai from December-2009.

Previous Positions

- Teaching Fellow, Department of Physics, Madras Institute of Technology, Anna University, Chennai during August-2009 and December-2009.

Previous Additional Responsibility

- Programme Officer, National Service Scheme, Anna University, Chennai.

Other Employment

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Degree

- M.Sc. in PHYSICS , Centre for PG studies, Pondicherry, Pondicherry University (1990 - 1992).

Research Degree

- Ph.D. in Physics from Faculty of Science and Humanities, Anna University (2000 - 2007).
  Title: Micro and nano indentation studies and Atomic force microscopy analysis of epitaxially grown GaN, InGaN and Sic.

- M.phil. in Physics Annamalai University - 1994).
  Title: .

Area of Specialisation

- materials science, nanotechnology

Research Guidance

Papers Published in Journals

Research Papers Published in International Journals : 20
Research Papers Published in National Journals : 0

1. A. Sathiya Priya, D Geetha, J Henry, "Effect of Cu and Sm doping on the ferroelectric character of bismuth ferrite thin films", Phosphorus, Sulfur, and Silicon and the Related Elements, published by Taylor and Francis. Vol. 197, Issue 3, pp. 158â€“163

2. A. Sathiya Priya, D Geetha, J Madhavan, "Synthesis and Structural, Dielectric and Photocatalytic Properties of (Ti, La)-co-Doped Calcium Ferrite Ceramic Powders", Arabian Journal for Science and Engineering, published by Springer .

3. A Sathiya Priya, D Geetha, " Structural and frequency dependent dielectric properties of Ba doped Niâ€“Zn ferrite powders", Phosphorus, Sulfur, and Silicon and the Related Elements, published by Taylor and Francis. Vol. 197, Issue 3, pp. 186â€“191

4. D. Geetha, D. Arivuoli , G. Mangamma, " AFM studies of microindented GaN and InGaN", Materials Letters , published by Elsevier. Vol. 63, pp. 515-518 (2009).

5. Joice Sophia P, Buffagni G, Geetha D, Arivuoli D, Bosi M, Ferrari C,Attolini G, " Studies of nanoindentation and residual stress analysis of Ge/GaAs epilayers", Semiconductor Science and Technology, published by IOP publishing. Vol. 30, (2015).

6. Joice Sophia P, Geetha D, Bosi M, Attolini G, Buffagni E, Ferrari C, "Influence of doping on the nanomechanical behavior of InGaP/Ge thin films", Materials Letters, Vol. 171, pp. 95-99 (2016).

7. D. Geetha, P.JoiceSophia, D.Arivuoli, " Evaluation of microindentation properties of epitaxial 3C–SiC/Si thin films", PhysicaB , published by Elsevier. Vol. 490, pp. 86-89 (2016).

8. D. Geetha, P. Joice Sophia, R. Radhika, D. Arivuoli, " Evaluation of nanoindentation and nanoscratch characteristics of GaN/ InGaN epilayers", Materials Science & Engineering A, published by Elsevier. Vol. 683, pp. 64-69 (2017).

9. D.Geetha ,R Pratyank and P Kiran, " Nano-deformation behavior of silicon (100) film studied by depth sensing indentation and nanoscratch technique", Materials Research Express , published by IOP. Vol. 5, Issue 46407, (2018).

10. A.Sathiya Priya, D.Geetha and N.Kavitha, " Evaluation of structural and dielectric properties of Al, Ce co-doped cobalt ferrites", Materials Research Express , published by IOP. Vol. 5, Issue 66109, (2018).

11. A. Sathiya Priya, D. Geetha, K. Karthik, M. Rajamoorthy, "Investigations on the enhanced photocatalytic activity of (Ag, La) substituted nickel cobaltite spinels", Solid State Sciences , published by Elsevier. Vol. 98, pp. 105992 (2019).

12. ASathiya Priya , B Shameem Banu,DGeetha and S Sankar, "Investigations of the magnetic and dielectric behaviour of (Zr, Cu) co-doped BiFeO3-BaTiO3 composite", Materials Research Express, published by IOP. Vol. 6, Issue 106116, (2019).

13. B. Nisha, Y. Vidyalakshmi, D. Geetha, J. Ruhena Parveen, G. Vinitha, "Green synthesis, characterization of silver nanoparticles and their study on antibacterial activity and optical limiting behavior", Applied Physics B, published by Springer. Vol. 125, Issue 123, (2019).

14. A.Sathiya Priya, D Geetha, N Kavitha, " Effect of Al substitution on the structural, electric and impedance behavior of cobalt ferrite ", Vacuum, published by Elsevier. Vol. 160, pp. 453-460 (2019).

15. A. Sathiya Priya , D. Geetha , Stefan Talu, "Advanced micromorphology study of the Mn-doped bismuth ferrite thin films", Materials Letters, published by Elsevier. Vol. 281, Issue 128615, (2020).

16. A. Sathiya Priya and D. Geetha, " Impact of (Zr, Cu) Ion Substitution on the Optical, Dielectric, and Impedance Behavior of BiFeO3", Brazilian Journal of Physics , published by Springer. Vol. 51, pp. 40-46 (2020).

17. A. Sathiya Priya and D. Geetha, " Studies on the multiferroic properties and impedance analysis of (La, Cu) BiFeO3 prepared by sol-gel method", Ferroelectrics, published by Taylor & Francis. Vol. 573, Issue 1, pp. 104-116 (2021).

18. Åžtefan Å¢Äƒlu, A. Sathiya Priya and D. Geetha, " Topographic characterization of (Zr, Mn) co doped bismuth ferrite thin film surfaces", Microscopy Research and Technology, published by John Wiley & Sons, Inc.. (2021).

19. A. Sathiya Priya, D. Geetha, I. B. Shameem Banu, " Structural, Dielectric, and Impedance Analysis of (Dy, Cu) Codoped BiFeO3", Brazilian Journal of Physics , published by Springer. (2021).

20. M. Rajamoorthy, D. Geetha, A. Sathiya Priya, " Synthesis of Cobalt-Doped Bi12NiO19: Structural, Morphological, Dielectric and Magnetic Properties", Arabian Journal for Science and Engineering, published by Springer. Vol. 46, Issue 1, pp. 737-744 (2021).

Papers Presented in Programmes

Research Papers Presented in International Programmes	: 0
Research Papers Presented in National Programmes	: 1

1. "Analysis of indentation size effect of semiconductor thin films" presented in a National level conference on National Conference on Advanced Materials and Applications, organised by NIT, Trichy, India from 04-Apr-2013 to 05-Sep-2013.

Sponsored Projects Completed

1. " NANOMECHANICAL CHARACTERIZATION OF Ge-Si WAFERS GROWN BY MOVPE METHOD", funded by CTDT Anna University (May-2012 - April-2013). Project Cost: 50000.00.

Programme Organized

1. co-ordinator, National level Short Course on "FDTP on PH2161- Engineering Physics II" from 04-Jan-2012 to 11-Jan-2012.

Programme Attended

1. Participated in a National level workshop on "Two week ISTE workshop on Basic Electronics" organized by IIT Bombay, India.

2. Participated in a National level workshop on "Refresher course in experimental Physics" organized by IIT Madras, INdia.

3. Attended a National level Short Course on "30th Refresher course in Experimental Physics" organized by IIT Madras, India from 11-Jul-2011 to 27-Jul-2011.