



Gitisudha Giri, Ph.D.

Designation: Additional Professor

Department : Department of Basic Science and Humanities
(JOINED THE INSTITUTE IN 2008)

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RESEARCH INTERESTS:

- Green synthesis & characterization of nano particles(Cu_2O) by using plant-extract
- Nano-structured materials.
- Structural modification & Improvement in parent properties of Natural fibers (Wool) by graft copolymerization.

Academic Qualifications:

Ph. D. (Chemistry): Utkal University, Bhubaneswar, Odisha, India

M.Phil. (Chemistry), Utkal University

M. Sc. (Chemistry), Utkal University

Specialization: High polymerization

Scholarships awarded:

Junior merit scholarship, National scholarship

Research experience:

- 8 years in Ravenshaw University (1985 to 1993 under C.S.I.R. project)

Teaching Experience:

- 12 years in Orissa Engineering College, Bhubaneswar.
- 2 years in Gandhi Engineering College
- Continuing in Silicon Institute of Technology, Bhubaneswar till date (date of joining: 25.6.2008)

PUBLICATIONS

Journal/Conferences

- [1]. M.Behera & **G. Giri**, 'Inquiring the photocatalytic activity of cuprous oxide nanoparticles synthesized by a green route on methylene blue dye', Int J Ind Chem., PP.1-11, 2016, DOI 10.1007/s40090-016-0075-y.
- [2]. M.Behera & **G. Giri**, 'Green synthesis & characterization of cuprous oxide nano particles in presence of a biosurfactant', Material Science – Poland, Vol.32, No.4, PP. 702-708, 2014, ISSN. 2083-1331, e-ISSN 2083-134X.
- [3]. **G. Giri**, R.K. Samal & R.N.Samal, 'Evaluation of Huggin's, Karmer's, Mead-Fuoss's constants, solvent interaction parameters & unperturbed dimension of dextran in H₂O, glucose & glycin', Polym. Jour., JAPAN, Vol. 39, No. 2, PP. 343-356, 2001, ISSN. 0032-3896 & eISSN. 1349-0540
- [4]. **G. Giri**, R.K. Samal & R.N.Samal, 'Evaluation of Huggin's, Karmer's, Mead-Fuoss's constants, solvent interaction parameters & unperturbed dimension of dextran in H₂O, NaOH, KOH', J. Polym. Sci. Polym. Chem. Ed., Vol. 38, No. 4, PP. 405-414, 2000, ISSN. 1542-9369
- [5]. **G. Giri**, R.K. Samal & B.L. Bhuyan, 'Chemical Modification of Lignocellulosic Fibers-I, Functionality changes & graft copolymerization of Acrylonitrile onto pineapple leaf fibers; their characterization & behaviour', J. Appl. Polym. Sci., Vol.52, No.12, PP. 1675-1685, 1994, ISSN. 1097-4628(web), 0021-8995.
- [6]. **G. Giri**, R.K. Samal & B.L. Bhuyan, 'Chemical Modification of Lignocellulosic Fibers-II, Functionality changes & graft copolymerization of Methyl Methacrylate onto pineapple leaf fibers', Jour. Polym. Materials, Vol. 11, PP. 113-119, 1994, ISSN. 09738622, 09700838.
- [7]. **G. Giri**, R.K.Samal, 'Graft copolymerization onto wool fibers', J.Macromol.Sci.-Rev. Macromol. Chem. Phys., Vol.C32, No.1, PP. 55-100, 1992, ISSN. 0736-6574.
- [8]. **G. Giri** & R.K. Samal, 'Graft copolymerization onto wool fibers: Graft copolymerization of methyl methacrylate onto wool fibers initiated by KHSO₅/Fe(III) system', J. Appl. Polym. Sci., Vol.42, PP. 2371-2375, 1991, ISSN. 1097-4628(web), 0021-8995.
- [9]. **G. Giri**, R.K. Samal, 'Graft copolymerization onto wool fibers: Graft copolymerization of butyl acrylate onto wool fibers initiated by KHSO₅/ Fe (III) system', I. Jour. Fiber & Textile. Res., Vol.42, No.8, PP. 2371-2375, 20th April 1991, ISSN. 0975-1025
- [10]. **G. Giri**, R.K. Samal & P.K. Sahoo, 'Graft copolymerization onto wool fibers: Graft copolymerization of acrylamide onto wool fibers initiated by KHSO₅/ Fe (II) redox system', J. Appl. Polym. Sci., Vol.40, PP. 471-483, 1990, ISSN. 1097-4628(web), 0021-8995
- [11]. **G. Giri**, R.K. Samal & C.N. Nanda, 'Graft copolymerization onto wool fibers: Graft copolymerization of acrylonitrile onto wool fibers initiated by KHSO₅/Cu (II) system', J. Polym. Materials, Vol.8, PP.209-214, 1990, ISSN. 09738622, 09700838
- [12]. **G. Giri**, R.K. Samal & C.N. Nanda, 'Graft copolymerization onto wool fibers: Graft copolymerization of acrylic acid onto wool fibers initiated by quinquivalent vanadium, V(V)', Polym. Jour., JAPAN, Vol.21, No.11, PP.883-893, 1989, ISSN. 0032-3896 & eISSN. 1349-0540.

Any Other

Administrative Responsibility: Since 2019: Controller of Examinations