



*List of publications*

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1. M. Boruah, **P. Gogoi**, B. Adhikari, S.K. Dolui, Preparation and characterization of *Jatropha curcas* oil based alkyd resin suitable for surface coating. *Prog. Org. Coat.* 74 (2012) 596– 602.
2. **P. Gogoi**, M. Boruah, C. Bora, S.K. Dolui, *Jatropha curcas* oil based alkyd/epoxy resin/expanded graphite (EG) reinforced bio-composite: Evaluation of the thermal, mechanical, and flame retardancy properties. *Prog. Org. Coat.* 77 (2014) 87– 93.
3. **P. Gogoi**, M. Boruah, S. Sharma, S.K. Dolui, Blends of epoxidized alkyd resins based on jatropha oil and the epoxidized oil cured with aqueous citric acid solution - A green technology approach. *ACS Sus. Chem. Eng.* 3 (2015) 261–268.
4. M.M. Bora, **P. Gogoi**, D.C. Deka, D.K. Kakati, Synthesis and characterization of yellow oleander (*Thevetiaperuviana*) seed oil-based alkyd resin. *Ind. Crop. Prod.* 52 (2014) 721– 728.
5. **P. Gogoi**, B.J. Saikia, S.K. Dolui, Effects of nickel oxide (NiO) nanoparticles on the performance characteristics of the jatropha oil based alkyd and epoxy blends. *J. Appl. Polym. Sci.* (DOI: 10.1002/app.41490).
6. **P. Gogoi**, D. Das, S. Sharma, S.K. Dolui, Synthesis and characterization of *Jatropha curcas* oil based alkyd resins and their blends with epoxy resin. *J. Renew. Mater.* (article in press)
7. **P. Gogoi**, R. Boruah, S.K. Dolui, *Jatropha curcas* oil based alkyd/epoxy/graphene oxide (GO) bionanocomposites: Effect of GO on curing, mechanical, and thermal properties. *Prog. Org. Coat.* 84 (2015) 128–135.
8. E.F. Assanvo, **P. Gogoi**, S.K. Dolui, S.D. Baruah, Synthesis, characterization, and performance characteristics of alkyd resins based on *Ricinodendron heudelotii* oil and their blending with epoxy resins. *Ind. Crop. Prod.* 65 (2015) 293–302.
9. M. Boruah, **P. Gogoi**, A.K. Manhar, M. Khannam, M. Mandal, S.K. Dolui, Biocompatible carboxymethylcellulose-gpoly(acrylic acid)/OMMT nanocomposite hydrogel for in vitro release of vitamin B<sub>12</sub>. *RSC Advances* 4 (2014) 43865–43873.

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10. C. Bora, **P. Gogoi**, S. Baglari, S.K. Dolui, Preparation of polyester resin/graphene oxide nanocomposite with improved mechanical strength. *J. Appl. Polym. Sci.* 129 (2013) 3432-3438.
  11. B.J. Saikia, **P. Gogoi**, S. Sharma, S.K. Dolui, Synthesis of pH- and solvent-responsive smart core crosslinked star polymer by atom transfer radical polymerization. *Polym. Int.* (DOI 10.1002/pi.4812).
  12. **P. Gogoi**, S.K. Dolui, In situ synthesis of green bionanocomposites based on aqueous citric acid cross-linked epoxidized soybean oil-carboxylic acid functionalized MWCNTs. (communicated)
  13. S. Sharma, P.J. Bora, **P. Gogoi**, R. Boruah, K.J. Mohan, S.K. Dolui, Plasmonic bulk heterojunction photovoltaic devices based on poly (9-vinylcarbazole)/gold nanocomposites: Effect of aspect ratio of gold nanorod. *J. Mater. Sci. - Mater. Electron.* (Accepted)
  14. S. Sharma, **P. Gogoi**, R. Bhargav, S.K. Dolui, A. Patra. Hybrid bulk heterojunction solar cells based on poly (9-vinylcarbazole)/zinc oxide nanocomposites: Effect of aspect ratio of zinc oxide nanorod. *J. Polym. Mater.* (Accepted)

#### **Papers presented in academic conferences:**

1. **P. Gogoi** and S.K. Dolui. "Jatropha oil modified alkyd resins for effective surface coatings", POLY-2011, Dept. of Chemistry, Jadavpur University, West Bengal, 28-29<sup>th</sup> January, 2011.
2. **P. Gogoi** and S.K. Dolui. "Preparation and characterization of *Jatropha curcas* oil based alkyd resin suitable for surface coating", UGC sponsored National Seminar on Conservation and Utilization of Resources in North-East India, Dept. of Geography, Nowgong College in collaboration with Assam Science Society, 10-11<sup>th</sup> January, 2011.
3. **P. Gogoi** and B. Basumatary. "Preparation and characterization of *Jatropha curcas* oil based alkyd resin suitable for surface coating", 99<sup>th</sup> Indian Science Congress, KIIT University, Bhubaneswar, 3-7<sup>th</sup> January, 2012.

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4. **P. Gogoi** and S.K. Dolui. “*Jatropha curcas* oil modified polyols and polyurethane foams: Synthesis, characterization, and properties evaluation”, Recent Advances in Polymer Science and Technology (POLY-2012), Dept. of Chemistry, North Bengal University and Siliguri Institute of Technology, 2-4<sup>th</sup> November, 2012.