

PROFILE

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Project Details

- 1 Minor Research Project by the University Grants Commission (No.F.MRP-2583/08(MRP/UGC-SERO) Link No.2583 (2008-2010) entitled “Studies on acrylated epoxidised soyabean oil towards the development of biodegradable polymers”.
- 2 Minor Research Project by the University Grants Commission (No.F.MRP-3823/11(MRP/UGC-SERO) Link No.3823 (2012-2014) entitled “Synthesis and characterization of sunflower oil based thermosetting polymer”.

List of publications

1. S.Begila David K.Sathyalekshmi and G.Allen Gnana Raj, Studies on acrylated epoxidised triglyceride resin-co-butylmethacrylate towards the development of biodegradable pressure sensitive adhesives *J.Mater Sci:Mater Med* 20,2009 ,61-70
2. S.Begila David and G.Allen Gnana Raj,Development studies of biodegradable pressure sensitives from groundnut oil and butylmethacrylate, *Asian J.Research Chem.* 3(1),2010,40-46..
3. Begila David and G.Allen Gnana Raj, Synthesis and characterization of soyabean oilbased biodegradable thermosetting polymer.*International Journal of Pure and Applied Chemistry*, 5(2),2010,135-141.
4. S.Begila David and G.Allen Gnana Raj, Synthesis, Characterization and Biodegradable

- Studies of Oil based Polymers from Triethyleneglycoldimethacrylate and Vinylacetate
Asian J. Research Chem. 4(7),2011, 1092 -1096.
5. Irine Sheela.C, and Begila David.S, Photo and biodegradation of thermosetting polymers from linseed oil *International journal of chemical studies.* IJCS 2014; 2(4): 46-54
 6. K. Priya Rajini and S. Begila David, Studies and Development of Interpenetrating Polymer Networks from Linseed oil and Corn oil. *Asian J. Research Chem.* 7(10):October- 2014.
 7. K. Priya Rajini and S. Begila David, Studies on the Development of Oil based Polymers from Triethyleneglycol dimethacrylate and Vinyl Pyrrolidone. *International Journal of Pure and Applied Chemistry*, 9(1-2),2014,97-103.
 8. G. S. Prabha Littis Malar and S. Begila David, Synthesis and characterisation of Novel Citric-acid derived polyesters from Linseed Oil. *Cibtech Journal of Bio-Protocols*, 2014; Vol. 3 (2),1-6.
 9. G.S.Prabha Littis Malar and Begila David, Novel Biomimetic Polyesters from Linseed Oil for Tissue Engineering Applications. *The International Journal Of Science & Technoledge*, 2014; Vol. 2 (10), 132-135.
 10. K.Rathika and S.Begila David, Study on Effect of Variation of NCO/OH Molar Ratio and PU/MMA Weight Ratio on Chemical and Mechanical Properties of IPNs Derived from Bio-Mass. *The International Journal Of Science & Technoledge*, 2014;Vol.2 (10), 152-135.
 11. G.S.Prabha Littis Malar and S.Begila David, Development of Novel Citric Acid Based Biodegradable Polyesters from Sesame Oil. *International Journal of Chemistry and Applications*, 2014: Vol 6(2), 133-138.
 12. Irine Sheela.C, and Begila David.S, Synthesis and characterization of biopolymers from linseed oil monoglyceride cyclohexane dicarboxylate with methyl acrylate and methyl methacrylate co-monomers. *International Journal of Chemical Sciences and Applications*, 2014;Vol 5(2),30-37.
 13. G.S.Prabha Littis Malar and S.Begila David, Synthesis and Characterisation of Novel Citric Acid Based Polyester Elastomers from Sunflower Oil. *International Journal of Scientific Research*, 2014; Vol.3(10), 79-81.
 14. G.S.Prabha Littis Malar and S.Begila David, Synthesis and Characterization of Biodegradable Polyesters Based on Sesame Oil for Biomedical Field. *International Journal of Science and Research (IJSR)*, 2015; Vol. 2(4),1950-1964.
 15. Irine Sheela.C, and Begila David S, Photo and Biodegradation of thermosetting polymers from Sesame oil. *International Research Journal of Pharmaceutical and Biosciences (IRJPBS)* 2015; 2 (1) : 63-72.
 16. Irine Sheela.C, and Begila David S, Study of crosslinked biopolymers from Linseed oil monoglyceride cyclohexane dicarboxylate with vinyl acetate and n-vinyl-2-pyrrolidone co-monomers *International Journal of Chemical Research.* 2014; Vol 4(4), 9 – 18.
 17. S,Begila David and K.Priya Rajini, Synthesis and Comparative study of Novel cross linked Biopolyesters from Corn oil..*Scholars Academic Journal of Biosciences (SAJB)*,2015;3(3),284-293.
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19. S.P.R.Kalaikathir, S.Begila David, Assessment of water quality along the cost of Arabian Sea *International Journal of Modern Science and Technology* May 2016. Vol1(2) pp69-79. ISSN: 2456-0235.
20. Y.J.Jeba Jane Ratney, S.Begila David Antibacterial Activity of Zinc Oxide Nanoparticle by Sonochemical method and Green method using Zingiber Officinale, *Green Chemistry & Technology Letters*, January 2016 Vol.2,No.1, pp 11-15. ISSN:2455-3611.
21. K.Rathika, S.Begila David Effect of Increasing NCO/OH Molar Ratio on the Chemical and Mechanical Properties of Isocyanate terminated Polyurethane Prepolymer derived from Biomass, *Green Chemistry & Technology Letters*, March 2016 Vol.2,No.2, pp 78-82. ISSN:2455-3611.
22. S.P.R.Kalaikathir, S.Begila David, Synthesis and Characterisation of nanostructured carbon supported Pt electrocatalysts for membraneless methanol fuel cells (MLMFC), *International Journal of ChemTech Research*, 2016, Vol.9, No.07.p.596-610. ISSN: 0974-4290.
23. Y.J.Jeba Jane Ratney, S.Begila David, Blend of Biocompatible Magnesium Oxide Nanomolecule and its Anticancer Action against Human Colon Cell Line, *International Journal of Nanobiotechnology*, 2016 Vol.2,Issure 2, pp 15-18. ISSN:2456-0111.
24. S.P.R.Kalaikathir, S.Begila David, 2017, Performance of seawater supported Pt-Sn-Mg/C catalyst for membraneless fuel cells, *International Journal of Industrial Engineering (IJIE)*, 2017, Vol.1, Issue 2, p.52-61.
25. G.S.Prabha Littis Malar and S.Begila David, Studies on Biodegradable polyesters from Sesame oil for Soft Tissue Engineering, *International Journal of Emerging Technology and Advanced Engineering*, 2017: Vol 7(9),p.
26. Y.J.Jeba Jane Ratney, S.Begila David, Evaluation of In-vitro Anticancer and Antioxidant Activity of Zinc Oxide nanoparticle by Chemical and Green method. *International Journal of Latest Trends in Engineering and Technology* 2017. pp.010-015. ISSN: 2319-3778.
27. K.Rathika, S.Begila David, Synthesis and Characterisation of Castor Oil based Polyurethane-Methyl methacrylate interpenetrating Polymer networks, *International Journal of Current Science and Technology* 2017.Vol5 (X) pp. ISSN: 2320-8090.
28. Ginju M.L, S.Begila David, Synthesis & Characterisation of a Novel Cross Linked Bio-based Polyurethane from the Egg Oil, *International Journal of Chemical and Physical Sciences*, 2018.Vol7 (1) pp. ISSN: 2319-6602.
29. Ginju M.L, S.Begila David, Comparison and Characterisation of Biodegradable Crosslinked Polycarbonateacrylate from Soyabean oil at different Concentration. *International Journal of Scientific Research and Review*, 2018.Vol 7 (12) pp. ISSN: 2279-543X.

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31. K.Rathika, S.Begila David, Study on Effect of Variation of diisocyanate and NCO/OH molar ratio on Mechanical, Thermal, and Electrical properties of interpenetrating polymer networks derived from biomass. *JETIR Journal of Emerging Technologies and Innovative Research*, Oct 2018.Vol 5 (10) pp.219-240 ISSN: 2349-5162.
32. Ginju M.L, S.Begila David, Synthesis& Characterisation of a Novel Cross Linked Bio-based Polyurethane from Egg Oil. *International Journal of Chemical and Physical Sciences*, (IJCPS) Jan-Feb 2018.Vol 7 (1) pp.13-17 ISSN: 2319-6602.
33. Ginju M.L, S.Begila David, Synthesis and Characterisation of a Novel Crosslinked Biopolyurethane from Soyabean oil as eco-friendly Biodegradable Material. *International Journal of Interdisciplinary Research and Innovations*, April-June 2018. Vol 6 (2) pp.423-430 ISSN: 2348-1218.
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35. J.Johnsy Rose, S.Begila David, Studies on the development of oil based polymer from methyl-methacrylate and vinylacetate co-monomer. *Journal of Emerging Technologies and Innovative Research (JETIR)*, June 2018.Vol 5 (6) pp.284-291 ISSN: 2349-5162.
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37. J.Johnsy Rose, S.Begila David, Synthesis and Characterisation of Olive oil based Biodegradable Polymers. *International Journal of Research*, February 2019. Vol 8 (2) pp.209-215 ISSN: 2236-6124.
38. J.Johnsy Rose, S.Begila David, Studies and Development of Polymeric Materials from Acrylated Epoxidized Olive oil. *Journal of Applied Science and Computations*, February 2019. Vol 6 (2) pp.323-333 ISSN: 1076-5131.
39. Ginju M.L, S.Begila David, Characteristic Studies on Novel Biodegradable Polyurethane Thin Films from Soyabean Oil *Oriental Journal of Chemistry*, March 2019. Vol 35 (2) pp.877-884 ISSN: 0970-020X. (Scopus & ICI)
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