

## **M. Suguna Lakshmi**

### **List of Publications:**

1. \* M. Suguna Lakshmi et al., \*Comparative in vivo studies between modified Rosiglitazone and marketed Rosiglitazone in diabetes treatment. Manuscript to be communicated: Role: Corresponding Author
2. \* M. Suguna Lakshmi et al., \*Bio-Nanocomposite Films Loaded With Lemon Leaf Extract For Bio Packaging Application Manuscript to be communicated: Role: Corresponding Author
3. Santhini V. M.,Madurai Suguna Lakshmi, S. P. Suriyaraj and Haja Bava Bakrudeen\*, Carvedilol drug-organo montmorillonite nanocomposites: Preparation, characterization and drug release studies, Advanced Materials Letters, 2017 (Accepted)
4. Development of resins for making carbon fibre prepregs. M.K.Sridhar, K.Rangarajan, Kiran V.Pandare, Chandra Ajay, M.Suguna lakshmi, M.V.Ramani, PD-MT-9403, Jan.1994 (Restricted), Materials Science Division, NAL, Bangalore-560017.Sponsor: Aeronautical development Agency (ADA), Bangalore.
5. Characterization of polycyanurate cured epoxy resins. M.Suguna Lakshmi, P.Kanakalatha, Chandra Ajay, M.K.Sridhar, PD-MT-9516, Aug.1995 (Restricted), Materials Science Division, NAL, Bangalore-560017.
6. High Performance Resins for Aeronautical Applications-Final Report. M.K.Sridhar, P.Kanakalatha, Kiran V Pandare, Chandra Ajay, M.Suguna Lakshmi, G,Padma, T.Padmavathi, PD-MT-0011, July 2000 (Restricted), Materials Science Division, NAL, Bangalore-560017.Sponsor: Aeronautical Research and Development Board (AR & DB), Bangalore.
7. Synthesis and characterization of new epoxy and cyanate ester resins. M.Suguna Lakshmi, BSR Reddy, Euro.Polym. J.,38, (2002), 295-281.IF:0.952.
8. Study on the effect of new cyanate and phenoxy polymer of TGDDM/DDS/GMP formulations. M. Suguna Lakshmi, M. Srividhya, BSR Reddy, J.Appl.Polym. Sci.88(13)(2003), 2693-2973 .IF: 1.187
9. Modification of epoxy system for industrial applications: Preparation an characterization. M. Suguna Lakshmi, BSR Reddy,Ind. J. of Chem. Tech., 10(2003), 257-264.IF: 0.267
10. New epoxy resins containing hard-soft segments: Synthesis, characterization and modification studies for high performance applications. M. Suguna Lakshmi, M. Srividhya, BSR Reddy, J. Polym. Research.10(2003), 259-266. IF:0.375
11. Chemistry of Siloxane Amide as a New curing agent for epoxy resin: Materials characterization and properties., M. Srividhya, M. Suguna Lakshmi BSR Reddy J.Macromol. chem.. and phys.,Vol.206, issue 24, pages 2501-2511, 2005.IF: 2.111
12. Enhanced thermal stability and structural characteristics of different MMT-Clay/epoxy-nanocomposite materials: M. Suguna Lakshmi, B. Narmadha and B.S.R. Reddy, Polym. Degrad. and Stab. JVol.93(1), January, 201-213,2008,IF:2.320
13. Carvedilol/montmorillonite drug nanoparticles: Processing, characterization and dissolution studies, Muralidharan Sriranjani , Haja Bava Bakrudeen, Arumugam Suresh Kannan, M. Suguna Lakshmi , Boreddy Sivarami Reddy , Asit Baran Mandal, Applied Clay Science 48 (2010) 589–593.IF: 2.784

14. Synthesis and Characterization of Novel Phosphorous-Coupling Agent for the use as Compatibilizer, Flame retardant, Hardener and Adhesion promoter in Making Polymer Networks Suguna Lakshmi M, Omar Ashwaq. H.H. and Reddy BSR, Polymer-Plastics Technology and Engineering journal. Volume 50 Issue 3, 266, 2011 IF: 1.279
15. Development of Inter-Crosslinking Polymer Materials From DGEBA/PDMS-Epoxy Resin Systems: Processing And Application Study", M Suguna Lakshmi, BSR Reddy, Malaysian Polymer Journal, Vol. 5, No. 2, p 84-98, 2010. IF: 0.056
16. Intestine-Specific, Oral Delivery of Captopril/Montmorillonite: Formulation and Release Kinetics. M. Suguna Lakshmi , Boreddy Sivarami Reddy, Asit Baran Mandal, Journal of Nanoscale Research Letters. August, 2010. IF: 2.89
17. Preparation and characterisation of short segment modifiers: Effect of modifiers and nanoclay on epoxy resins, M. Suguna Lakshmi, B.S.R. Reddy, ChemXpress , 2(1), Page 1-21
18. M. Suguna Lakshmi, New phosphorous hardeners intercalated epoxy/clay nanocomposites enhanced in homogeneity, modulus and heat resistant properties B.S.R. Reddy, ChemXpress 2(1), Page 22-31
19. M. Suguna Lakshmi, HB Bakrudeen, PP. Naseef, R. Saraswathi, A.B. Mandal, and BSR Reddy. Rosiglitazone maleate/MMT nanohybrid materials: Intercalations, formulations and release studies. Int J of Recent Adv in Engg & Tech. Instt for Res and Dev, Vol 2(9,10) Page 1-7, 2014, ISSN (Online): 2347-2812. IF: 1.53
20. Rahul AR, Arundev KY, Hemalatha G , Mandal A.B, Suguna Lakshmi M. Nano Fillers Incorporated FRP Rebars For The Marine Constructions 2014 Int J on Theo and Appl Res in Mechl Engg., Instt for Res and Dev Vol 3(4) page. 1-5, 2014, ISSN (Print): 2319-318, IF: 2.01
21. M. Suguna Lakshmi, HBBakrudeen, B. Abilash, P.N. Krishnan, A. B. Mandal . Inorganic clay mineral, Montmorillonite for the Adsorption of Isoniazid drug, formulations and release studies. Int J of Recent Adv in Engg & Tech, Instt for Res and Dev Vol 2(9, 10) Page 15-22, 2014. ISSN (Online): 2347-2812, IF: 1.53
22. Suguna Lakshmi Madurai, Venkatesh Madhu, Asit Baran Mandal, Development of Nanocomposite from Epoxy/PDMS-Cyanate/Nanoclay for Materials with Enhanced Thermal Stability for Engineering Applications Int J Of Modern Engg Res (IJMER) Vol. 4 (10), 70-74, IJMER, 2014, ISSN: 2249-6645, IF: 1.227
23. Haja Bava Bakrudeen, Madurai Suguna Lakshmi and Boreddy S. R. Reddy, Auto-fluorescent mesoporous ZnO nanospheres for drug delivery carrier application, Mater. Sci. Eng. C: Mater. Biol. Appl., 2015, 56:335. (IF: 4.2)
24. Sowndarya Sampatha, Vidhya Veeramaniam, Gopal Shankar Krishnakumara, Udhayakumar Sivalingama, Suguna Lakshmi Madurai, Rose Chellana Biomedicine & Pharmacotherapy (2017) Biomedicine & Pharmacotherapy 93 296-307
25. Vairavan Mahalakshmi, Siddan Gouthama, Madurai Suguna Lakshmi and Srinivasan Crystal structure of 10-ethyl-7-(9-ethyl-9H-carbazol-3-yl)-10H-phenothiazine-3-carbaldehyde (2017) Acta Cryst. Germany E73, 726-728
26. Parvathi Malikireddy, Gouthaman Siddan, Suguna Lakshmi Madurai, Suvasini Chandramoulee and Lakshmi Srinivasakannan\* 10-Methyl-10H-phenothiazine (2016) IUCr Data German x161299

27. \* M.Suguna Lakshmi et al., Fibre Reinforced Composites for high performance applications: Preparations and property investigations".\*Manuscript to be communicated: Role: Corresponding Author
28. \* M.Suguna Lakshmi et al., "Effect of phosphorous epoxies on leathers exhibit self extinguishable flame retardant characteristics" Manuscript to be communicated: Role: Corresponding Author
29. \* M.Suguna Lakshmi et al., "Fire-retardant leather was synthesized from crust leather by coating with P-Polymer (Phosphorous-Urethane-Epoxy crosslinked polymer)" Manuscript to be communicated:
30. \* M.Suguna Lakshmi et al., Clay-based polymer nanocomposites Preparations and characterisation of the thermal stability by degradation kinetic studies. Manuscript to be communicated: Role: Corresponding Author