

Last Five Years Paper Published in Journals

1. D. Duaraibabu, M. Alalgar, S. Ananda Kumar, " Studies on mechanical, thermal and dynamic mechanical properties of functionalized nanoalumina/reinforced sulphone ether linked tetra glycidyl-toughened epoxy nanocomposites", RSC Advances, published by RSC Publishing. Vol. 4, Issue 76, pp. 40132-40140 (2014).
2. YIHEYISBOGALEZEMEDE, D. NITHY AKALY ANI and S. ANANDAKUMAR, " SYNTHESIS, STRUCTURAL CHARACTERIZATION, CORROSION INHIBITION AND IN VITRO ANTIMICROBIAL STUDIES OF 2-(5-METHOXY-2 HYDROXYBENZYLIDENEAMINO) PHENOL SCHIFF BASE LIGAND AND ITS TRANSITION METAL COMPLEXES", International Journal of ChemTech Research , published by Sphinx Knowledge House. Vol. 6, Issue 11, pp. 4569-4578 (2014).
3. J. Sheeba Vinolia, D. Duraibabu, S. Aparna S. Ananda Kumar*, " SKELETALLY MODIFIED POLYAMIDE FLAME RETARDANT COATINGS", Oalib Journal, published by Scientific Research Publishing. Vol. 1, Issue 7, pp. 1-7 (2014).
4. P. Saravanan, S. Ananda Kumar and D. Duraibabu, " Development of Environmentally Acceptable Nanohybrid Coatings for Bio-Fouling Protection", Advanced Materials Research, published by Trans Tech Publications, Switzerland. Vol. 938, Issue 1, pp. 269-274 (2014).
5. D. Duraibabu, T. Ganeshbabu, P. Saravanan, S. Ananda Kumar, "Development and characterization of novel organic-inorganic hybrid sol-gel films", High Performance Polymers, published by SAGE. Vol. 26, Issue 7, pp. 725-733 (2014).
6. Duraibabu D., Saravanan P., Gowripriya Rebheka P, AnandaKumar S., " A comparative study on modified epoxy and glycidyl carbamate coatings for corrosion and fouling prevention", Surface Innovations, published by ICE Publishing. Vol. 3, Issue 2, pp. 127-139 (2014).
7. Duraibabu D., Vinothkumar S., Alagar .M, AnandaKumar S., " Synthesis and Characterization of New Ether Linked Tetraglycidyl Epoxy Silicate Nanocomposites", Silicon, published by Springer. pp. 1-11 (2014).
8. Dhanapal Duraibabu, Venkatachalam Madhumitha 1, Muthukaruppan Alagar 2, Srinivasan Ananda kumar 1*, Shyamsunder Abhinandan, " Development and Characterization of a Novel Skeletal Modified Tetraglycidyl Epoxy Toughened DGEBA Epoxy Matrices", Polymer Science Series C, published by Russian Academy of Sciences. Vol. 56, Issue 4, pp. 480-487 (2014).
9. B. Asaithambi*, G. Ganesan, S. Ananda Kumar, " Bio-composites: Development and mechanical characterization of banana/sisal fibre reinforced poly lactic acid (PLA) hybrid composites", Fibers and Polymers, published by Springer. Vol. 5, Issue 4, pp. 847 (2014).
10. D. Duaraibabu, M. Alalgar, S. Ananda Kumar, "Development and Characterization of Tetraglycidyl Epoxy Reinforced Inorganic Hybrid Nanomaterials for High Performance Applications", High Performance Polymers, published by SAGE. Vol. 28, Issue 7, pp. 773-783. (2015).
11. B. Asaithambi, S. Ganesan, S. Ananda Kumar, " Biocomposites; Influence of Chemical Modification of BSF Towards Thermal Properties", Polymer Composites, published by Springer. Vol. 38, Issue 6, pp. 1053-1062 (2015).
12. B. Asaithambi, S. Ganesan, S. Ananda Kumar, " Thermal and Morphological Analysis of Banana and Sisal Fibers Reinforced Polylactide Hybrid Bio-

- Composites", *Journal of Advanced Microscopy Research*, published by American Scientific Publishers. Vol. 10, Issue 2, pp. 124-131 (2015).
13. P. Saravanan, K. Jayamoorthy, S. Ananda Kumar, "Switch-On fluorescence and Photo-induced electron transfer of 3-aminopropyltriethoxysilane to ZnO: Dual applications in sensors and antibacterial activity", *Sensors and Actuators*, published by Elsevier. Vol. 221, pp. 794 (2015).
 14. S. Krishna Kumar, S. Ananda Kumar, " A Management Framework for Human Resource Friendly Non-Toxic nano Hybrid Coatings for Corrosion and Fouling Prevention", *International Journal of Business Intelligence & Innovations*, published by University of Madras. Vol. 1, Issue 2, pp. 125 (2015).
 15. P. Saravanan, S. Aparna, S. Ananda Kumar and D. Duraibabu, "Studies on biocide encapsulated zeolite-epoxy nano hybrid coatings on mild steel", *Current Bionanotechnology*, published by Bentham Science. Vol. 1, pp. 1 (10.2174/2213529401666150304234007) (2015).
 16. B. Asaithambi, S. Ganesan, S. Ananda Kumar, "Thermal Characterization of Hybridized Banana and Sisal Fibers Reinforced PLA Bio-Composites", *Molecular Symposia*, published by Springer. (2015).
 17. YIHEYISBOGALEZEMEDE, D. NITHYAKALYANI and S. ANANDAKUMAR, " Synthesis, Characterization and Antimicrobial Properties of Some Transition Metal Complexes with NS-Chelating Schiff Base Ligand Incorporating Thiophene and Sulfonamide Moieties", *Asian Journal of Chemistry*, published by Asian Publication Corporation. Vol. 27, Issue 3, pp. 941-948 (2015).
 18. D. Duraibabu, M. Alagar and S. Ananda Kumar, " Tetraglycidyl Epoxy Reinforced with Surface Functionalized Mullite Fiber for Substantial Enhancement in Thermal and Mechanical Properties of Epoxy Nanocomposites", *Silicon*, published by Springer. Vol. 10, Issue 2, pp. 585-594 (2016).
 19. P. Saravanan, K. Jayamoorthy and S. Ananda Kumar, " Design and characterization of non-toxic nano-hybrid coatings for corrosion and fouling resistance", *Journal of Science: Advanced Materials and Devices*, published by Elsevier. Vol. 1, Issue 3, pp. 367-378 (2016).
 20. P. Saravanan, K. Jayamoorthy and S. Ananda Kumar, " Fluorescence quenching of APTES by Fe₂O₃ nanoparticles - Sensor and antibacterial applications", *Journal of Luminescence*, published by Elsevier. Vol. 178, Issue 1, pp. 241-248 (2016).
 21. S. Suresh, P. Saravanan, K. Jayamoorthy, S. Ananda Kumar, S. Karthikeyan, " Development of silane grafted ZnO core shell nanoparticles loaded diglycidyl epoxy nanocomposites film for antimicrobial applications", *Materials Science and Engineering: C*, published by Elsevier. Vol. 64, Issue 1, pp. 286-292 (2016).
 22. D. Duraibabu, R. Neelakantan, S. Ananda Kumar, "Role of POSS as coupling agent for DGEBA/GF reinforced nanocomposites", *Silicon*, published by Springer. Vol. 10, Issue 2, pp. 537-546 (2017).
 23. P. Saravanan, S. Ananda Kumar and D. Duraibabu, " Studies on Silicon Containing Nano-hybrid Epoxy Coatings for the Protection of Corrosion and Bio-Fouling on Mild Steel", *Silicon*, published by Springer. Vol. 9, Issue 3, pp. 447-458 (2017).
 24. D. Duraibabu, D. Rajagopal, S. Ananda Kumar, " A First MMT Reinforced Nanocomposite functionalized with ether linkage derived from

- Tetraglycidyl/Diglycidylepoxy building block", Progress in Organic coatings, published by Elsevier. Vol. 104, pp. 135-140 (2017).
25. P. Saravanan D. Duraibabu K. Jayamoorthy · S. Suresh · S. Ananda Kumar, " Twin Applications of Tetra-Functional Epoxy Monomers for Anticorrosion and Antifouling Studies", Silicon, published by Springer. Vol. 10, Issue 2, pp. 555-565 (2017).
 26. S. Ananda Kumar and S. Aparna, " Natural Biocide Loaded PLA Films for a Possible Packaging Application", Journal of Advanced Microscopy Research, published by American Scientific Publishers. Vol. 13, Issue 1, pp. 39-47 (2018).
 27. K Shreemeenakshi, S. Ananda Kumar, "Development of Siloxane Based Tetraglycidyl Epoxy Nanocomposites for High Performance Applications—Study of the Thermo Mechanical, Electrical, XRD, EDS and Physical Properties", Silicon, published by Springer. pp. 1-9 (2018).
 28. S.Mahendraselvan, D. Duraibabu, A. Gnanaprakasam and S. Ananda Kumar, " Enhancing the Thermal and Mechanical Properties of OrganicInorganic Hybrid Nanocomposite Films Based on Poly Lactic Acid/OMMT Nano Clay ", Journal of Coatings Science and Technology, published by Life Science Global. Vol. 4, Issue 3, pp. 59-65 (2018).
 29. Jayasree M.R., Anandakumar S*, and Alagar M, "Development and characterisation of functionalised AL ϵ •MCM ϵ •41 reinforced caprolactam toughened DGEBA epoxy ϵ •cyanate ester polymer nanocomposites ", Advances in Polymer Technology, published by WILEY. Vol. 37, Issue 6, pp. 1906 (2018).
 30. Premkumar Jayaraj, Gopal Venkatesh Shavi, Anandakumar Srinivasan, Ramesh Raghavendra, Akella Sivaramakrishna, Desikan Rajagopal, "Pre-formulation strategy for liposome encapsulation of new thioctic acid conjugates for enhanced chemical stability and efficient drug carrier for MPO-Mediated atherosclerotic CVD treatment", New Journal of Chemistry, published by Royal Society of Chemistry. Vol. 44, pp. 2755-2767 (2020).
 31. N Sundar, S Ananda Kumar*, A Pavithraa, S Ghosh, " Studies on Semi-crystalline Poly Lactic Acid (PLA) as a Hydrophobic Coating Material on Kraft Paper for Imparting Barrier Properties in Coated Abrasive", Progress in Organic Coatings, published by Elsevier. Vol. 145, Issue 1, pp. 105682 (2020).
 32. Santhosh J, Ananda Kumar S, Mandhakini M, Ariraman M, "Role of amines in microstructure tuning for synergistic damping and mechanical properties in epoxy", Progress in Organic Coatings, published by Elsevier. pp. 1 (2020).
 33. A Jacob Moses, A. Sureshbabu and S. Ananda Kumar, "Analysis of Physical Properties and Wear Behavior of Phenol Formaldehyde - Basalt Fiber Reinforced Brake Pad", Materials Today Proceedings, published by Elsevier. pp. 1 (2020).
 34. P Keerthana and S. Ananda Kumar, " Scientific theology behind the importance of collecting Cremated ashes of COVID-19 dead patients", Bio-energetics, published by Longdom Publishing SL. pp. 1 (2020).
 35. S Swathi, P Keerthana, G Rajiv, S. Ananda Kumar, J P Nirmala and R Neelakandan, " Design of Eco-Friendly Poly Lactic Acid (PLA) Film loaded with bio-additives for Possible Food Packaging Applications", Exploratory Materials Science Research, published by KEF foundation. pp. 1 (2020).

36. P Keerthana, N Sundar and S Ananda Kumar, "Fireworks in Times of COVID-19: Predictable Disaster", International Journal of Advanced Research in Science, Communication and Technology, published by www.isbn.gov.in. Vol. 9, Issue 1, pp. 89 (2020).