

## Research Paper Publications –

### Research Paper Published in International journal:

1. **Anu K S** and **K Natarajan**, "Nanoclay reinforced Polyurethane-Epoxy Blend: A Review", International Journal of Research in Engineering and Advanced Technology, V-3, Issue-1, 78-90, 2015.
2. **Anu K S**, K A Vishnumusrthy, Mahesh A, **K Natarajan**, "Fabrication and Comparison of mechanical and EMI shielding properties of various fibre reinforced multi-layered epoxy composites", Journal of Indian Chemical Society, 99, 2022.
3. **Anu K S**, K A Vishnumurthy, Mahesh A, **K Natarajan**, "Effect of carbon fiber reinforcement on the mechanical and electromagnetic shielding properties of the Fe<sub>3</sub>O<sub>4</sub>-carbonaceous/epoxy composites", Polymers for Advanced Technologies, 1-15, 2023.
4. **Anu K S**, Vishnumurthy K A, Mahesh A, **K Natarajan**, "Carbon fiber-reinforced, activated carbon-embedded copper oxide nanoparticles/epoxy hybrid composites for EMI shielding in aircraft applications", Polymer Bulletin, 2024
5. **K Natarajan** and RMVGK Rao, Toughening studies on a thermoset multifunctional epoxy resin blended thermoplastic polyimide system Polymer processing towards AD 2000, conference held at Singapore Nov.1996, Proceedings P 231."
6. **K Natarajan** and RMVGK Rao Studies on a Thermoplastic modified high T<sub>g</sub> multifunctional epoxy resin system –Polymer processing towards AD 2000, conference held at Singapore Nov.1996. Proceedings p77.
7. S M Santhosh and **K Natarajan**., "Characterisation and Photocatalytic Activity of Mesoporous Rare-Earth-Doped TiO<sub>2</sub> Synthesized under Ambient Conditions" Winter School, JNC SAR, held on December 5 to 10, 2011 Bangalore
8. Krupashankara, **K.Natarajan**, "Effect of fused deposition modeling process parameters on Mechanical properties" National conference on advances in Naval materials -2013 NRB , Feb-22-23-2013- National institute of ocean technology, Chennai.
9. Padma C, **K.Natarajan**, "Mechanical and morphological studies of glass fibre reinforced modified epoxy matrix composites – poster presentation at Chemical Research Society of India at NITK-Suratkal July 12-13, 2013
10. **K Natarajan** et al- Cost effective electromagnetic surgical device for removal of ferromagnetic objects from the endo bronchial and endo esophageal passage" at the International conference on Emerging technology and application in Engineering technology and Sciences held on 13<sup>th</sup>, 14<sup>th</sup> January, 2008 Rajkot.
11. **K. Natarajan**, "Toughening studies on an ABS/PC blend modified Epoxy Resin system" High performance Polymers No 6, 241-248. (1994) Bristol UK
12. **K.Natarajan**, "Thermal and Mechanical Studies of Polybenzimidazole modified Epoxy Resin system", Polymer International, No 4, 14, (2000) London UK
13. **K Natarajan** et al., Thermal and toughness property studies on a polybenzimidazole modified epoxy resin" Polymer international No.49; 1321-1323 (2000 )
14. **K.Natarajan**, Pallavi S G, "Detection of Low Concentration Ammonia Gas Using Diphenylamine Based Conjugated Polymer Sensors", Journal-Sensor Letters, Volume-16, Issue-6, Pages-460-466, 2018.
15. **K.Natarajan**, Santhosh Shimoga Mukunda-Rao, "Antibiofilm Activity of Epoxy/Ag-TiO<sub>2</sub> Polymer Nanocomposite Coatings against Staphylococcus aureus and Escherichia coli, Journal-Photocatalytic Coatings for Air-Purifying, Self-Cleaning and Antimicrobial Properties, ed. by A. Maury-Ramirez (MDPI, Basel, Switzerland, 2015, Pages-3, 2018
16. **K.Natarajan**, Padma C. Balasubramanya., "Mechanical and morphological studies of modified epoxy resin matrix for composite applications". International journal of emerging technology and advanced engineering V-4. Issue-1, January-2013.
17. **K.Natarajan**, Padma C. Balasubramanya, "Mechanical and morphological study of coir fiber reinforced modified epoxy matrix composites" International journal of emerging technology and advanced engineering, V-3, Issue-12, December-2013.
18. **K.Natarajan**, Padma C Balasubramanya, "Study of mechanical and morphological properties of glass fiber reinforced modified epoxy composites" International journal of research in engineering and technology, V-3, Issue-1, Jan-2014.
19. **K.Natarajan**, Soumya, "Mechanical properties of Polyester mortar " International journal of research in engineering and technology , V-3, Issue-6, May-2014

**20..K Natarajan and Anu KS** Nanoclay reinforced PU-Epoxy blend – review. ISSN-2320-8791 IJREAT V-3, Issue-1 Feb-Mar-2015

**21.K Natarajan et al.,** Fabrication and comparison of mechanical and EMI shielding properties of various fibres reinforced multilayered epoxy composites JCS Elsevier 99 (2022) 100720

**22.** Pallavi S.G, Vishnumurthy K A, and **K. Natarajan** “**Effect of silver nanoparticles on the Ammonia gas sensing behavior in diphenylamine based conjugated polymer**” *Advanced Material Letters* Volume10 , Issue3, pages215-221,Year 2019

**23.** Pallavi S.G, Vishnumurthy K A, and **K. Natarajan** “**Naked eye detection of ammonia gas using diphenylamine based conjugated polymers**” *Materials Today Proceedings*, volume 5, Issue 10,Part I,2018, pages 21421-21426