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Overview : -

Dr. S. Ilangovan is an Assistant Professor with 14 years of teaching experience and 2 years of industry exposure. He completed his Doctorate of Philosophy in Composite Materials at Anna University, Chennai, Tamilnadu, India in 2021. Prior to his Ph.D., he earned a Master of Engineering in Manufacturing Systems & Management from Anna University in 2008. Currently, he is working as an Assistant Professor in the Department of Mechanical Engineering at SRM Institute of Science & Technology in Chennai, Tamilnadu, India.

Areas of Research:

Composites,

Material characterization,

Polymer nanocomposites,

Finite element modeling,

Vibrational analysis,

Pressure-withstanding capabilities of composite pipes,

Nanoparticles,

Synthesis of nanomaterials, and

Hybrid materials.

Selected Publications:

Web of Science/SCI

- JeyanthiSubramanian, Vinothkumar Selvaraj, Rohan Singh, S. Ilangovan, K. Naresh, RubanWhenish “Acoustical Properties of a 3D Printed Honeycomb Structure Filled with Nanofillers: Experimental Analysis and Optimization for Emerging Applications”, Defence Technology (2023) .
- Studies on glass/epoxy and basalt/epoxy thin-walled pressure vessels subjected to internal pressure using ultrasonic ‘C’ scan technique. Thin-Walled Structures (2021) S. Ilangovan, S. Senthil Kumaran, K. Naresh, K. Shankar, R. Velmurugan.
- Keerthi Gowda, Naresh kakur, S Ilangovan “Effect of Fiber Volume Fraction on Mechanical and Fire Resistance Properties of Basalt/Polyester and Pineapple/Polyester Composites”, Journal of natural fibers (2021).
- S. Ilangovan, S. Senthil Kumaran and K. Naresh, “Effect of nanoparticles loading on free vibration response of epoxy and filament winding basalt/epoxy and E-glass/epoxy composite tubes: experimental, analytical and numerical investigations” Materials Research Express, Volume 7,(2020)
- S. Ilangovan, S. Senthil Kumaran, A.Vasudevan, and K.Naresh “Effect of silica nanoparticles on mechanical and thermal properties of neat epoxy and filament wounded E-glass/epoxy and basalt/epoxy composite tubes” Materials Research Express, Volume 6,(2019).
- S. Ilangovan, S. Senthil Kumaran. A.Vasudevan&MitishaSurana “Investigation of the transverse compressive and buckling strength of aluminum grid reinforced hybrid GFRP composite” Volume 5, Issue 11,2018.,

Books/Book Chapters Published:

- Thermal performance and fire resistance studies on filler-based natural fiber polymer composites- A review. Encyclopedia of Materials: Plastics and Polymers, Chapter 00270 VeerasimmanArumugaprabu, KanagarajArunprasath, K.Naresh, S.Ilangovan, V. Manikandan, D.C. Naveen.

Google Scholar:

<https://scholar.google.com/citations?user=JuuCmmEAAAAJ&hl=en>