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Nota di contenuto	Extraction and characterization of natural fiber from Herbaceous residues of Orthosiphon Aristatus -- Morphology, isothermal crystallization kinetics and mechanical properties of polyvinyl alcohol/aloe vera electrospun nanofibers -- Electrospun porous carbon nanofibers from PVDF source -- Thermal insulation for refrigeration pipe made of polyurethane reinforced coconut husk and rice husk -- Vibro-acoustic behavior of GFRP curved panel under non-uniform thermal environment -- Study the Mechanical characteristics of NaOH& SLS treated Cotton- Kenaf fabric reinforced epoxy composites laminates -- Green synthesis of Silver/Iron (Ag/Fe) and Copper/Iron (Cu/Fe) nanoparticles for cytotoxic investigation on Henrietta Lacks (HeLa) cancer cell -- Effect of manufacturing techniques on mechanical properties of natural fibers reinforced composites for lightweight products - A review -- Characterization of Muntingia calabura fiber as a composite reinforcement with bleaching variation -- Bio-wastecomposite recycling using 3D printing: A review -- Preparation of

transparent thin film from cellulose extracted from oil palm empty fruit bunch -- Development and characterization of Glycine max seed powder blended with unidirectional Agave fourcroydes reinforced epoxy nanocomposite -- Mechanical properties and abrasion resistance of 3D printed lightweight CF-reinforced PLA/ABS composites using design of experiments -- Tribological characterization of two different elastic polymers produced via FDM -- Effect of mixing parameters on the friction performance of non-asbestos organic based automotive brake friction composites.

Sommario/riassunto

This proceedings book contains papers presented at the International Symposium on Lightweight and Sustainable Polymeric Materials (LSPM23) held on February 17, 2023, and organized by King Mongkut's University of Technology North Bangkok, Thailand. The papers in this book are presented by academics and industrial practitioners showcasing the latest technological advancements and applications of environmentally friendly polymeric materials with the emphasis on the production of lightweight, low-cost, low-energy-consuming materials with competitive performance. The content of this book appeals to academia and industrial researchers from the fields of polymer chemistry, physics, and materials science. .