Tentative Outline

Special Thematic Issue for the journal Current Materials Science

Title of Thematic Issue: "Mechanical behaviour of Natural fibre composites"

Guest Editor: Professor S.M. Sapuan Co-Guest Editor: Dr. RA Ilyas

Scope of the Thematic Issue:

The scope of the thematic issue includes all aspects of mechanical performance of natural fibre composites

Aim: To collect the special issue on the mechanical properties of natural fibre composites, including tensile, flexural, impact and fatigue properties.

Keywords: Biocomposites; Natural fibre composites; Natural fibres; Mechanical properties

Sub-topics:

- Tensile properties of natural fibre composites
- > Flexural properties of natural fibre composites
- Impact properties of natural fibre composites
- Fatigue properties of natural fibre composites

Tentative titles of the articles:

- Properties of sugar palm fibre polymer composites.
- Mechanical properties of natural fibre reinforced starch biopolymer composites.
- Evaluation performance of Young's Modulus of natural fibre composites and synthetic fibre composites using statistical analysis.
- Mechanical Properties of Sugarcanes Bagasse Reinforced Thermoplastic Cassava Starch/Wax Composites.
- Tensile Properties of Ramie Fibre: Effect of Fibre Maturity Level.
- Quasi-Static Indentation Behaviour of CFRP/ Ramie Fiber Interply Hybrid Laminate.
- Surface modification impact on the mechanical and physical properties of core kenaf fibre reinforced vinyl ester composites.
- Thermal and Mechanical Properties of Woven/non-woven of Water Hyacinth Fibers Reinforced Bio/Synthetic Epoxy Composites
- Mechanical and Thermal Characteristic of Polyvinyl Alcohol Biocomposite Filled by Albizia Chinensis Wood Sawdust Fiber.
- Mechanical properties of plasma treated natural fiber reinforced polymer composites A mini Review
- "Mechanical characterization of natural fiber-based hybrid composites A thematic review"
- Mechanical Properties of Kenaf Fibre Reinforced Acrylonitrile Butadiene Styrene Composites Fabricated by Fused Filament Fabrication
- > Notch effects on tensile properties of the natural fibre reinforced composites
- A review of Sago palms (Metroxylon sagu): Application, fiber characterization and composites.
- Optimization of Natural Polymer Additives Towards Tribological Behavioural of Bio-oil extracted from peel waste of Musa Aluminata Balbisiana by Using Taguchi Method
- A review on mechanical properties of thermoplastic for aerospace engineering.
- Mechanical Performance on Carbon Nanotubes reinforced Polymer Composites: A Review

- Influence of 3D fabrication technique on the mechanical performance of natural-based composites: A review
- Micromechanical properties of oil-palm nanocellulose nanocomposites
- > Tensile properties of the palm fibre based composites

Schedule:

➤ Thematic issue submission deadline: 15 April 2023

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