International Journal of

Automotive Composites

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Scope of the Journal

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IJAutoC provides comprehensive explanation of how advanced composites (FRPs, reinforced thermoplastics, carbon-based composites and many others) are designed, processed and utilised in automotive vehicles. It includes technical explanation of advanced composites in vehicle design/analysis and covers all phases of composites design, analysis, modelling, testing, manufacturing and failure analysis. It also sheds light on the performance of existing composites and future developments in automotive materials technology. The term, 'automotive', includes passenger cars, sport utility vehicles, vans, trucks, buses and recreational vehicles.

Topics covered include:

- Technology developments and applications
- Innovative materials, smart composites
- Repair, recycling and promising process technologies
- Morphing and dynamics
- New lightweight composites for safer, energy-efficient and greener vehicles
- Challenges regarding safety and comfort
- Crashworthiness and failure analysis
- Hybrid composites for structural applications
- Polymer, metal, ceramic matrix and graphene-based composites
- Composites manufacturing processes within vehicle components
- Design and modelling methodologies
- Durability of automotive components
- Simulations of composites' behaviour; experimental methods
- Thermal problems in composite structures
- Advanced solutions for processing and automation

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