**COMPOSITES PART B: ENGINEERING**

An International Journal

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**AUTHOR INFORMATION PACK**

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**DESCRIPTION**

The aim of *Composites Part B: Engineering* is to provide a balance between **mechanics** and **materials science** aspects, basic and applied research, and high technology and high volume (low cost) **composite development**.

The Journal aims to provide a forum for the prompt publication of original research on all areas of **composites** and **nano-engineered materials**, with emphasis being placed on evaluation and modelling of engineering details and concepts. Basic research papers are welcomed as well as proposals for review articles. Authors are encouraged to discuss the issues relative to application in the short or long-term in various areas, such as aerospace, automotive and other surface transportation, infrastructure, ship-building, off-shore piping, and recreational products.

Current topics of interest to readers include durability, functionally gradient materials, interfaces, interlaminar fracture, joints and adhesion, smart composites, textile composites, thermoplastics, wave propagation, and non-destructive testing.

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INTRODUCTION
The aim of Composites Part B: Engineering is to provide a balance between mechanics and materials science aspects, basic and applied research, and high technology and high volume (low cost) composite development.

The Journal aims to provide a forum for the prompt publication of original research on all areas of composites and nano-engineered materials, with emphasis being placed on evaluation and modelling of engineering details and concepts. Basic research papers are welcomed as well as proposals for review articles. Authors are encouraged to discuss the issues relative to application in the short or long-term in various areas, such as aerospace, automotive and other surface transportation, infrastructure, ship-building, off-shore piping, and recreational products.

Current topics of interest to readers include durability, functionally gradient materials, interfaces, interlaminar fracture, joints and adhesion, smart composites, textile composites, thermoplastics, wave propagation, and non-destructive testing.

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List of keywords
The keywords for Composites Parts A and B are separated into five categories:

A. Material
- Aramide fibre
- Carbon fibre
- Carbon-carbon composites (CCCs)
- Ceramic fibre
- Ceramic-matrix composites (CMCs)
- Discontinuous reinforcement
- Fabrics/textiles
- Fibres
- Foams
- Glass fibres
Glasses  
Honeycomb  
Hybrid  
Intermetallics  
Lamina/ply  
Laminates  
Layered structures  
Metal-matrix composites (MMCs)  
Moulding compounds  
Nano-structures  
Particle-reinforcement  
Plates  
Polymer (textile) fibre  
Polymer-matrix composites (PMCs)  
Preform  
Prepreg  
Recycling  
Resins  
Smart materials  
Strand  
Tape  
Thermoplastic resin  
Thermosetting resin  
Thin films  
Tow  
3-Dimensional reinforcement  
Wood  
Yarn

**B. Property**

Adhesion  
Anisotropy  
Buckling  
Chemical properties  
Corrosion  
Creep  
Cure behaviour  
Damage tolerance  
Debonding  
Defects  
Delamination  
Directional orientation  
Elasticity  
Electrical properties  
Embrittlement  
Environmental degradation  
Fatigue  
Fibre/matrix bond  
Fracture  
Fracture toughness  
Fragmentation  
Hardness  
High-temperature properties  
Impact behaviour  
Interface/interphase  
Internal friction/damping  
Magnetic properties  
Mechanical properties  
Microstructures
Optical properties/techniques
Physical properties
Plastic deformation
Porosity
Residual/internal stress
Rheological properties
Strength
Stress concentrations
Stress relaxation
Stress transfer
Surface properties
Thermal properties
Thermomechanical
Transverse cracking
Vibration
Wear
Wettability

C. Analysis

Analytical modelling
Computational modelling
Damage mechanics
Finite element analysis (FEA)
Laminate mechanics
Micro-mechanics
Numerical analysis
Statistical properties/methods

D. Testing

Acoustic emission
Chemical analysis
Electron microscopy
Fractography
Mechanical testing
Non-destructive testing
Optical microscopy
Physical methods of analysis
Process monitoring
Radiography
Surface analysis
Thermal analysis
Ultrasonics

E. Manufacturing / Processing

Assembly
Autoclave
Automation
Braiding
Casting
Chemical vapour deposition (CVD)
Compression moulding
Consolidation
Cure
Cutting
Extrusion
Fibre conversion processes
Filament winding
Forging
Forming
Heat treatment
Injection moulding
Isostatic processing
Joints/joining
Knitting
Lay-up (manual/automated)
Liquid metal infiltration
Machining
Melt-spinning
Moulding compounds
Powder processing
Preform
Prepreg
Pultrusion
Recycling
Resin film infiltration (RFI)
Resin flow
Resin transfer moulding (RTM)
Sintering
Slip casting
Stitching
Surface treatments
Tape
Thermal analysis
Thermoplastic resin
Thermosetting resin
Tooling
Tow
Weaving

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