



COMPOSITES PART B: ENGINEERING

An International Journal

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

●	Description	p.1
●	Audience	p.1
●	Impact Factor	p.1
●	Abstracting and Indexing	p.2
●	Editorial Board	p.2
●	Guide for Authors	p.3



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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.

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List of keywords

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

A. Material

Aramid 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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