

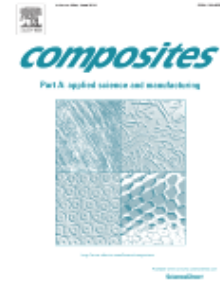


COMPOSITES PART A: APPLIED SCIENCE AND MANUFACTURING

AUTHOR INFORMATION PACK

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Composites Part A: Applied Science and Manufacturing publishes original research papers, review articles, case studies, short communications and letters from a wide variety of sources dealing with all aspects of the science and technology of composite materials, including fibrous and particulate reinforcements in polymeric, metallic and ceramic matrices, and 'natural' composites such as wood and biological materials. The range of applicable topics includes the properties, design and manufacture of reinforcing fibers and particles, novel architectures and concepts, multifunctional composites, advances in fabrication and processing of composite materials and structures, manufacturing science, process modelling, experimental mechanics, microstructural characterization of composites and their constituent phases, interfaces in composites, new approaches to prediction and measurement of mechanical, physical and chemical behaviour, and performance of composites in service. Articles are also welcomed on economic and commercial aspects of the applications of composites, design with composites and case studies. All articles are subject to rigorous peer review to ensure they make an important and novel contribution, and a high standard is set for both content and presentation. The Editors aim to conduct the review procedure with the minimum of delay so that prompt publication ensues.

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List of Keywords

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

A. Material

B. Property

C. Analysis

D. Testing

E. Manufacturing / Processing

A. Material

Aramid fibres

Biocomposite

Carbon fibres

Carbon nanotubes and nanofibers

Carbon-carbon composites (CCCs)

Cellulose

Ceramic fibres

Ceramic-matrix composites (CMCs)

Discontinuous reinforcement

Energy materials

Fabrics/textiles

Fibres

Foams

Multifunctional composites

Glass fibres

Glasses

Graphene

Honeycomb

Hybrid

Intermetallics

Lamina/ply

Laminates

Layered structures

Metal-matrix composites (MMCs)

Moulding compounds

Nano-structures

Nanocomposites

Nanoparticles

Natural fibers

Particle-reinforcement

Plates

Polymer (textile) fibres

Polymer-matrix composites (PMCs)

Preform

Prepreg

Recycling

Reinforced cement/plaster

Resins

Sandwich structures

Smart materials

Strand

Tape

Thermoplastic resin

Thermosetting resin

Thin films
Tow
3-Dimensional reinforcement
Wood fibres
Yarn

B. Property

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

C. Analysis

Analytical modelling
Cohesive interface modelling
Computational modelling
Damage mechanics
Finite element analysis (FEA)
Laminate mechanics
Micro-mechanics
Numerical analysis
Process Modeling
Process Simulation
Statistical properties/methods
Transport Phenomena analysis

D. Testing

Acoustic emission
CT analysis
Creep
Chemical analysis
Electron microscopy
Fractography
Failure
Mechanical testing
Microstructural analysis
Moisture
Non-destructive testing
Optical microscopy
Physical methods of analysis
Process monitoring
Radiography
Rheology
Surface analysis
Thermal analysis
Ultrasonics

E. Manufacturing / Processing

3-D Printing
Assembly
Autoclave
Automated fibre placement (AFP)
Automation
Braiding
Casting
Chemical vapour deposition (CVD)
Compression moulding
Compression resin transfer moulding
Consolidation
Cure
Cutting
Extrusion
Electrospinning
Fibre conversion processes
Fibre tow infiltration
Filament winding
Foaming
Forging
Forming
Heat treatment
Injection moulding
Isostatic processing

Joints/joining
 Knitting
 Lay-up (manual/automated)
 Liquid composite moulding
 Liquid metal infiltration
 Machining
 Melt-spinning
 Moulding compounds
 Out of autoclave processing
 Powder processing
 Preforming
 Prepreg processing
 Pultrusion
 Reaction injection moulding (RIM)
 Recycling
 Resin film infiltration (RFI)

 Resin flow
 Resin transfer moulding (RTM)
 Sintering
 Slip casting
 Stitching
 Surface treatments
 Tape placement
 Tooling
 Vacuum infusion
 Weaving

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