COMPOSITES SCIENCE AND TECHNOLOGY

AUTHOR INFORMATION PACK

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DESCRIPTION

Composites Science and Technology publishes refereed original articles on the fundamental and applied science of composites. The focus of the journal is on polymeric matrix composites with reinforcements/fillers ranging from nano- to macro-scale. CSTE encourages manuscripts reporting unique, innovative contributions to the materials science, physics, chemistry and applied mechanics aspects of advanced composites.

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GUIDE FOR AUTHORS

INTRODUCTION

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**Please do not:**
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Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

**References**
**Citation in text**
Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the
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Reference to a journal publication:
Reference to a journal publication with an article number:
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Reference to a chapter in an edited book:
Reference to a website:
Reference to a dataset:

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List of keywords

A. Material:

Adhesive joints
Alloys
Amorphous materials
Bio composites
Carbon fibres
Carbon nanotubes
Coupling agents
Fabrics/textiles
Flexible composites
Glass fibres
Glasses
Graphene and other 2D-materials
Hybrid composites
Intermetallics
Laminate
Layered structures
Metal fibres
Multifunctional composites
Nanoclays
Nano composites
Nano particles
Natural fibres
Natural fibre composites
Particle-reinforced composites
Polymer-matrix composites (PMCs)
Polymers
Polymer fibres
Recycling
Sandwich material
Structural composites
Short-fibre composites
Smart materials
Textile composites

**B. Property:**

- Corrosion
- Creep
- Curing
- Debonding
- Defects
- Delamination
- Dielectricity
- Durability
- Elastic behaviour
- Electrical properties
- Electro-chemical behavior
- Electromagnetic interference shielding (EMI)
- Electro-mechanical behaviour
- Embrittlement
- Environmental Degradation
- Fatigue
- Fibre/matrix bond
- Fracture
- Fracture toughness
- Fragmentation
- High-temperature properties
- Hygro-thermal effect
- Impact behaviour
- Interface
- Interfacial strength
- Interphase
- Low temperature properties
- Magnetic properties
- Matrix cracking
- Mechanical properties
- Multifunctional properties
- Non-linear behaviour
- Notch sensitivity
- Plastic deformation
- Porosity/Voids
- Self-healing
- Sensing
- Shape memory behaviour
- Strength
- Stress/strain curves
- Surface treatments
- Synergism
Thermal properties
Thermomechanical properties
Transport properties
Vibration

C. Analysis:

Anelasticity
Anisotropy
Buckling
Complex moduli
Computational mechanics
Crack
Damage mechanics
Damage tolerance
Deformation
Durability
Elastic properties
Failure criterion
Fibre bridging
Finite element analysis (FEA)
Laminate theory
Material modelling
Molecular dynamics
Multi-mechanism modelling
Multiscale modeling
Notch
Plate theory
Probabilistic methods
Representative volume element (RVE)
Residual stress
Sandwich structures
Shell theory
Statistics
Stress concentrations
Stress relaxation
Stress transfer
Transverse cracking

D. Testing:

Acoustic emission
Atomic force microscopy (AFM)
Differential scanning calorimetry (DSC)
Dynamic mechanical thermal analysis (DMTA)
Electron energy loss spectroscopy (EELS)
Electron microprobe analysis
Fractography
Infrared Thermography
Infrared (IR) spectroscopy
Life prediction
Non-destructive testing
Optical microscopy
Photoelectron spectroscopy (XPS)
Raman spectroscopy
Rheology
Scanning electron microscopy (SEM)
Scanning/transmission electron microscopy (STEM)
Secondary ion mass spectrometry (SIMS)
Thermogravimetric analysis (TGA)
Transmission electron microscopy (TEM)
Ultrasonic testing
X-ray computed tomography
X-ray diffraction (XRD)
X-ray fluorescence (XRF)

**E. Processing:**

Additive manufacturing
Annealing
Chemical vapour deposition (CVD)
Chemical vapour infiltration (CVI)
Compression moulding
Electro-spinning
Extrusion
Filament winding
Heat treatment
Injection moulding
Ion implantation
Ion plating
Isostatic pressing
Melt-spinning
Microwave processing
Physical vapour deposition
Plasma deposition
Plasma spraying
Powder processing
Pultrusion
Resin transfer moulding (RTM)
Sintering
3D printing