

Details of Submission guidance line – Book Chapters

Potential authors are invited to contribute to this edited volume on topics within their areas of expertise related to the subject matter of Carbon Nanotube-Based Composites.

A. Requirements

Researchers and practitioners are kindly invited to submit their chapter outlines (abstract), containing a preliminary title and an abstract of 250-1000 words via the website: amsa@academicpub.org

The abstract should clearly explain the purpose, contents, methodology used, and expected theoretical and/or experimental contributions of the proposed chapter. We strongly encourage authors to address other topics that have not been listed in our suggested list, especially if the topic is related to the research area in which you have a particular expertise.

B. Scope of Topics

Chapters proposed by contributors should involve scientific research, technological development and address innovation activities related to the application and use of CNT-based composites in various topical areas. However, the topics covered in the edited book will include, but are not limited to:

◆ Structure of CNTs

Graphene; CNT molecular structure; chirality control and geometry of CNTs (armchair, zigzag, chiral); metals and semiconductor CNTs; helicity; single walled and multi-walled carbon nanotubes (SWNT, MWNT); junctions between CNTs ...

◆ CNT Synthesis and elaboration

Graphite; Graphene; CNT growth methods; fabrication processes; alignment of CNTs; stretching and winding; mechanisms of yarn spinning; short/continuous fibres; automation of CNT-fibre draping; coatings and films; green processes; purification; worldwide production; cost-effectiveness ...

◆ Characterisation and properties of CNTs

Thermal and electrical conductivity; structural properties; optical intensity; chemical and mechanical characteristics; specific stiffness and strength; hardness; durability ...

◆ Design and analysis

Finite element modelling; static/dynamic analysis; buckling; delamination; fatigue; adhesive joints design; failure analysis; fracture mechanics; structural strength; reliability; methods of demonstration; test methods; test-analysis correlation; damage tolerance; ecodesign; life-cycle analysis; safety factors ...

◆ Existing and potential applications of CNTs

Aerospace; marine; automotive; wind energy; solar cells; photovoltaic cells; medicine; chemical and biochemical; mechanical and civil engineering; micro/nano electronics; hydrogen storage; energy storage; photonics and optoelectronics; strain sensors; gas sensors; sporting goods; technical textiles ...

◆ Standards and regulations

Assessment and management of risks; quality assurance; qualification/certification procedures; sustainable development principles; health, safety and environmental impacts; implementation of legislation; REACH regulation and toxicology; compliance with environmental regulations; methods of recyclability; monitoring procedures ...

C. Length of book chapter

The chapter's length should be 16-26 pages following the chapter's template instructions. Extra pages will be charged if the paper exceeds 26 pages.

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