

Special Issue on “Mechanics for Advanced Materials”

Executive Board Member: Prof. GAO Cunfa

As the editorial board member of “Transactions of Nanjing University of Aeronautics and Astronautics”, Prof. GAO Cunfa is currently a professor in the College of Aerospace Engineering at Nanjing University of Aeronautics and Astronautics (NUAA). His research interests cover fracture of smart materials and mechanics of soft materials.

In aerospace industry, in order to overcome the influences of extreme working environment including high speed, vibration, high temperature, vacuum and so on, advanced materials and structures have been widely designed and used ranging from aluminum honeycomb, functional graded materials to shape memory alloy. The mechanics of these new materials and structures also attract interests from the societies both of science and engineering.

To present the latest innovative achievements and promote discussion among researchers in Mechanics for Advanced Materials in aeronautical science, Transactions of Nanjing University of Aeronautics & Astronautics (TNUAA) intends to present a Special Issue on “Mechanics for Advanced Materials”. It is dedicated to present the new ideas, new mechanism and new applications about mechanics for advanced materials in aeronautical science. The special issue is so honored to invite Prof. GAO Cunfa from Nanjing University of Aeronautics and Astronautics as the executive board member for manuscript solicitation.

TNUAA is devoted to the dissemination of original archival research papers on theoretical developments, novel applications and case studies regarding pressing issues in aeronautics, astronautics, and civil aviation. As a peer-reviewed journal published bimonthly, TNUAA has been indexed by the predominant databases such as Ei Compendex (USA), EBSCO (USA), Scopus (Holland), Mathematical Review (USA), Cambridge Scientific Abstracts (CSA), SA (England), Zbl (Germany), Chinese Science Citation Database (CSCD), Chinese S&T Journal Citation Reports (CSTJCR), etc.

Topics

The topics of Special Issue on “Mechanics for Advanced Materials” include, but are not limited to, the following:

- Composite materials in aerospace engineering
- Ceramics in aerospace engineering

- Nano materials and nanomechanics
- Metamaterials
- Smart materials and structures
- 3D printing, additive manufacturing, bio-inspired materials
- Structure and damage mechanics
- Viscoelasticity
- Thermo-mechanical constitutive response of metals, polymers, composites, etc.

Important Dates

Full paper due for review: Nov 30th, 2020

Notification of results of first review cycle: Dec 15th, 2020

Revised paper submission due for Editor Board Meeting: Dec 25th, 2020

Final notification of results of Editor Board Meeting: Dec 26th, 2020

Publication in print due: Feb 28th, 2021

Submission Instructions

We welcome paper submissions between 6 and 15 pages, written in English. Paper submissions must not have been previously published. A paper is considered to have been previously published if it has appeared in a peer-reviewed journal, magazine, book, or proceedings that is reliably and permanently available afterward in print or electronic form to non-attendees, regardless of the language of that publication. Complete papers should be submitted electronically in the online submission and peer view system (<http://tnuaa.nuaa.edu.cn>) or by E-mail (lee4@nuaa.edu.cn), entitled “Contribution to Special Issue on MAM”.

Both Research Articles and Reviews are welcome. For the instructions on preparing a manuscript and the required style and format, please see the Word document “Transactions of NUA sample.docx”. TNUAA pursues a double-blind peer review policy, meaning both the authors and the reviewers remain anonymous to each other. Submissions (including citations) should not contain information that unnecessarily identifies the authors and their affiliations. For questions, please contact Executive Editor Ms. ZHANG Tong. Please notify Prof. GAO, and Ms. ZHANG when submitting the manuscript. For anyone who already has a paper under review and wishes to have it considered for this special issue, please send the request to Prof. GAO, and copy the request to Ms. ZHANG.

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