

Special Issue

Structural Health Monitoring for Aerospace Applications 2017

Message from the Guest Editors

Structural Health Monitoring (SHM) is an emerging topic of great interest. SHM hold the promise of improving aerospace safety and reliability while reducing life-cycle operational and maintenance costs. SHM topics span sensing, structural interrogation, data interpretation, structural diagnosis and prognosis. Theoretical predictive studies, and experimental validation and verification are very important. Efficient design of reliable SHM systems is necessary for obtaining high-confidence estimations with minimal false-positive and false-negative results. Transitioning of SHM concepts to real world applications and the development of turn-key SHM systems will help to develop the business case for SHM through realistic cost-benefit analysis and first-hand user experience.

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Deadline for manuscript submissions

closed (31 May 2017)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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