Special Issue

Magnetostrictive Composite Materials

Message from the Guest Editor

The interest in magnetostrictive composite materials has steadily increased in recent years. The reason for this success is that the new generation of composite material systems show special functionalities: Sensing, actuation, structural health monitoring, vibration control, energy harvesting. Magnetostrictive composite materials, including electromagnetic (ME) composites and magneto-sensitive elastomers, are used in the realization of smart materials and structures. The constitutive behavior of these composite materials couples their mechanical response with other physical fields. In magnetostrictive materials, the magnetic behavior is coupled with the mechanical one due to the direct magnetostrictive effect and inverse (Villari) effect. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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