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Low-Loss Nonoriented Electrical Steel Sheet for Energy-Efficient Electrical Drives

Guest Editor:

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Deadline for manuscript submissions:
closed (10 October 2021)

Message from the Guest Editor

Dear Colleagues,

Energy demand is rising all over the world. Simultaneously, saving energy is a global challenge for environmental and climate protection. In this regard, one focus is improving nonoriented electrical steels, which have a significant influence on losses during energy conversion and, therefore, determine the efficiency of generators and electrical drives.Research demands with regard to the optimization of electrical steel sheets result from the high complexity of the influencing factors that have to be taken into account. The mechanical and magnetic properties are influenced by the composition, microstructure, texture, and induced residual stresses of the selected material. Both, the material itself and the design concept of the machine, with the loads related to the specific application, have to be considered. During production and processing, the different interdependencies need to be understood in order to design a material for a defined application. It is my pleasure to invite you to submit a manuscript for this Special Issue and contribute to the exciting field of the material research and development of nonoriented electrical steel.

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Message from the Editor-in-Chief

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