



## Tribology of Smart Materials

Guest Editor:

**Prof. Dr. Annett Dorner-Reisel**  
Faculty of Mechanical  
Engineering, University of Applied  
Sciences Schmalkalden, 98574  
Schmalkalden, Germany

Deadline for manuscript  
submissions:

**closed (15 May 2020)**

### Message from the Guest Editor

This Special Issue "Tribology of Smart Materials" includes applications under tribological loading and the wear behaviour of smart materials. In some cases, reinforcements are added to smart materials to improve structural and functional properties. Smart materials can be nano- or microstructured or can obtain special surface patterns. Topographic and structural features may effect special functions in addition to mere physical, chemical, or electrical effects.

Smart materials use physical, chemical, and electrical principles for producing signals. Other substances often embed smart materials for protection and signal processing. In that case, system tribology and durability matters.

Signal production by smart materials and material combinations are typical for biological processes as well. It is strongly encouraged to submit manuscripts about smart materials in biology and their tribological behaviour as well as the tribological behaviour of biomimetic concepts in mechanical engineering, electronics, and microelectronics.

Prof. Dr. Annett Dorner-Reisel

*Guest Editor*

