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Advances in Multiscale and Multifield Solid Material Interfaces

Guest Editors:

Dr. Raffaella Rizzoni

Prof. Dr. Frédéric C. Lebon

Prof. Dr. Serge Dumont

Prof. Dr. Michele Serpilli

Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is dedicated to recent advances in fundamental and applications of solid material interfaces. Contributions concerning theoretical, numerical and experimental aspects are welcome from scientists working in different fields of material science and mechanics of materials.

Topics to be covered include, but are not limited to, the following:

- multi-scale modeling of interphases, thin films and surfaces, contact laws;
- models of imperfect, sliding, debonding or cohesive interfaces in composite materials;
- deformation, damage, fracture and other dissipative processes at interfaces;
- advanced finite element methods for the computational modeling of interfaces and surfaces;
- molecular dynamics simulations for interface design;
- recent developments of adhesive technology and materials.

Prof. Dr. Raffaella Rizzoni
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Guest Editors

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Editor-in-Chief

Prof. Dr. Manoj Gupta
Department of Mechanical Engineering, National University of Singapore, Singapore 117576, Singapore

Message from the Editor-in-Chief

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Technologies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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