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Mechanical Behavior and Degradation Processes of Advanced Materials

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Message from the Guest Editors

This Special Issue on Mechanical Behavior and Degradation Processes of Advanced Materials and Structures contains the following research topics:

- **Advanced Materials;** Ductile Materials, Metals and Alloys, Brittles and Ceramics, Polymers, Biomaterials, Biocomposites, Nanocomposites, Polymer composites, Metal matrix composites, Ceramic matrix composites, Ductile composites, Hybrid composites, Sandwich structures, Reinforced-concrete, etc.
- **Degradation Process;** Physical, Chemical, Environmental, Time-dependent;
- **Mechanical Behavior:** Linear-nonlinear deformation, Elastic, Hyperelastic, Viscoelastic, Plastic, etc.
- **Damage Mechanics:** Fatigue, Fracture, Creep, Impact, etc.
- **Characterizations:** Mechanical, Physical, Thermal, etc.
- **Computational mechanics:** Finite element method, finite differences, peridynamics, real-time simulation, etc.
- **Novel experimental methods** in both mechanical and structural analyses.



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Message from the Editor-in-Chief

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