Development of Numerical Methods for Structural and Mechanical Analysis of Materials and Their Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to promote research into big data science on materials and material genome engineering, and to accelerate the crossover integration of computational science and advanced materials research. It is our pleasure to invite you to publish your brilliant work in this Special Issue. The topics of interest include, but are not limited to:

-Numerical methods for multi-scale structural and mechanical analysis of materials;
-Numerical methods for large deformation analysis of materials;
-Numerical methods for studying the physical properties of materials;
-Numerical methods for material fracture and failure simulations;
-Numerical algorithms for extracting material structure information based on experimental data;
-Numerical methods for the high-throughput search and optimization of material structures;
-Research into and applications of AI algorithms based on materials databases;
-The parallel calculation of materials' mechanical properties.

Special Issue

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Message from the Editor-in-Chief

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