Minisymposium Title

Materials Genome and Informatics approach to accelerate the materials discovery and design.

Description

The Materials Genome Approach is a novel and powerful materials design strategy, which combines first principle base materials computation and experimental validations to discover, design, screen and optimize functional materials. Machine learning (ML) and data mining (DM) enables the researchers to find the unknown correlation, features, and materials from the database. In addition, ML as the interatomic force field can significantly accelerates the speed of molecular dynamics simulation. This minisymposium aims to discuss the application of MGI, informatics (data science, machine learning …), or multi-scale simulation for understanding the fundamental property of materials, accelerating simulation, exploring new materials, and characterizing the feature of structure.

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