Special Issue

Artificial Intelligence in the Innovation of Materials Science and Engineering

Message from the Guest Editors

Artificial Intelligence (AI) has received widespread attention due to its potential to increase automation and accelerate productivity over the last few decades. A large amount of training data with improved computing power and advanced deep learning algorithms are conducive to the wide application of artificial intelligence, including material research. The traditional trial-and-error method is inefficient and time-consuming to the material innovations. AI-based innovations in energy storage materials, especially machine learning, can accelerate the process by learning rules from datasets and building models to predict. This is completely different from computational chemistry. This Special Issue is focused on the application of AI in material innovation; papers need not be limited to the material design, performance prediction, and synthesis. All submissions are welcome.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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