Special Issue

10th Anniversary of *Applied Sciences*: Invited Papers in Materials

Message from the Guest Editor

The drive to miniaturise devices for nanoelectronics, energy storage, energy generation and harvesting is leading to novel experimental and modelling techniques. The latter include thermodynamic modelling, density functional theory and machine learning. The complementary insights gained by the synergy of experiment and modelling can lead to new defect engineering strategies and/or identify material compositions that can be of industrial relevance. The interest is driven by (i) the need to optimise energy production and storage using cleaner methods and (ii) the requirement for nanoscaled electronic devices that are energy-independent via harvesting. This Special Issue aims to demonstrate how the dialogue between modelling and experiment can provide advances in the understanding of materials properties at the atomistic level and thus lead to the materials design of optimized devices (e.g., materials for batteries, fuel cells, photovoltaics, nuclear fission and nanoelectronics).

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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