Special Issue

Energetic Materials: Performance Prediction and Construction

Message from the Guest Editors

We are now accepting submissions to a Special Issue entitled 'Energetic Materials: Performance Prediction and Construction'.Energetic materials are a class of compounds that release a large amount of energy via fast exothermic decomposing chemical reactions. Therefore, novel materials with an enhanced energetic performance are of significant interest. However, the development of new materials is an inefficient and expensive process that sometimes relies on subjective intuition and repeated trial and error. Thus, the prediction of computational performance is crucial because the best structures could be chosen just after molecule construction and before synthesis and characterization experiments.In this Special Issue, we welcome submissions that explore new energetic materials and recent advances in the field of energetic performance prediction. Both theoretical and experimental studies are welcome, as well as comprehensive reviews and survey papers. **Keywords**
energetic performance;
detonation;
numerical prediction;
molecular design;
experiment synthesis;

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Deadline for manuscript submissions

closed (20 February 2025)

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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.

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