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New Molecular Switch Architectures

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Message from the Guest Editor

Dear colleagues,

The seminal view of Richard Feynman that "there is plenty room at the bottom" has probably never actually made much sense in terms of understanding the physical phenomena at the nano or meso scale. Some work of the scientific community aims to improve the understanding of physical phenomena in the field of molecular switch and to suggest new material architecture. One of the main scientific objectives is also to develop new functions activated by different optical or chemical stimuli. However, in practice, there is a large number of technological and fundamental obstacles in the way of controlling this opto-molecular transition. The transition from a conductive to a blocked state is governed by thermodynamical and/or thermalization processes linked to the activation barrier of the different states of the molecule. Finally, the various optical, mechanical or electrical characterization at the nanoscale linked with different levels of concepts or scientific modeling trigger a better insight into the architecture and properties of these molecular switch.

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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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