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Molecular Machines Fed by Light

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Message from the Guest Editor

Dear Colleagues,

A (macroscopic) machine is, in general, a device used to apply mechanical power, consisting of several parts with each having a definite function. Similarly, molecular machines are assemblies of a discrete number of molecular parts that are put together to work as one and execute a specific task. In such synthetic chemical systems, controlled movements of the molecular components are induced by various external energy inputs, thus achieving the desired work. For a specific variety of appropriately designed molecular machines, this work is made possible by light energy, such as sunlight or other light sources. Molecular machines fed by sunlight are of particular interest as they may eventually help us harness the sunlight more efficiently, a clean and renewable energy source, which plays a key role in addressing the ever-increasing energy demand of humanity. This Special Issue aims to collect the results of cutting-edge research in the exciting scientific field of light-fed molecular machines. Research and review articles on the preparation and/or characterization of new molecular machine systems are most welcome in this Special Issue.