



Biomimetic Dye Aggregate Solar Cells (Springer Theses)

Peter L. Marek

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This thesis describes a new approach to the construction of *solar cells*. Following nature's example, this approach has the goal to find a **biomimetic self-assembling dye**, whose aggregates can mimic the natural light-harvesting system of special photosynthetic active bacteria. The thesis investigates methods to control the self-assembly such that suitable dye aggregates are formed with high internal order and size-confinement. The dye aggregates can be implemented into a new type of *solar cells*, designed to combine the advantages of *hybrid solar cells* and *solid-state dye-sensitized solar cells* (ss-DSSCs): **dye aggregate solar cells (DASCs)**. This book describes the construction and first tests of a prototype for DASCs on the basis of the investigated dye aggregates. The described approach has the advantage that it will enable to build up a light-harvesting system fully synthetically in large scale in order to realize low-cost, light-weight and environmentally friendly solar cells - a worthwhile goal towards the exploitation of clean energy from sunlight.

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