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## **Towards artificial photosynthesis : resolving supramolecular packing of artificial antennae chromophores through a hybrid approach**

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## *Stellingen*

behorend bij het proefschrift

### **Towards Artificial Photosynthesis**

Resolving supramolecular packing of artificial antennae chromophores  
through a hybrid approach

- 1 Understanding the packing of molecules has a crucial role in the chemical design of a solar fuel cell. (this thesis, Chapter 2)
- 2 The formation of nanorods in perylene-NMI self-assemblies paves the way for their use as a light-harvesting antenna. (this thesis, Chapter 3)
- 3 Functional groups can be used to steer packed molecules in a preferred orientation. (this thesis, Chapter 4)
- 4 An instrument that is a hybrid of MAS NMR, ENC and powder XRD will have a tremendous scientific and market potential. (this thesis)
- 5 A paint that can do artificial photosynthesis on the top of the roof is within reach on the midterm time scale. (this thesis)
- 6 Structure determinations could be benefited from transfer of molecular symmetry to packing symmetry. (this thesis)
- 7 Space colonisation will critically depend on a molecular approach to artificial photosynthesis.
- 8 You do not need an invitation to create your ideas.
- 9 Ripples are everywhere, in a glass of water, in the ocean and even in the space time universe.

10 An ecosystem that nurtures collaboration between private companies and research centers is vital for the evolution of our society.

Brijith Thomas

Leiden, 10-11-2016