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A semisynthetic peptide-metalloporphyrin responsive matrix for artificial photosynthesis

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Propositions

Belonging to the thesis entitled

“A Semisynthetic Peptide-Metalloporphyrin Responsive Matrix for Artificial Photosynthesis”

1. Engineering of responsive matrices is likely of vital importance for improving the efficiency of artificial photosynthesis devices. **(Chapter 1)**
2. Following the rules of natural systems, the derived semisynthetic peptide-metalloporphyrin responsive matrix can be developed for efficient light energy harvesting in artificial photosynthesis. **(Chapter 2)**
3. The self-assembly of CsmA homologues with ZnPP is a multiple functional problem involving the peptide sequence and its length, and environmental effects. **(Chapter 3)**
4. The biological wisdom “structure = function” is also reflected in the semisynthetic systems like the tCsmA-ZnPP complex. **(Chapter 4)**
5. Biology methods for protein harvesting can be widely used, but unpredictable at the same time. **(Chapter 5)**
6. Nature is complicated, but when we explore it, we can always find its rules.
7. Chinese wisdom and western European wisdom are less different than the way seems at first sight, because people are the same.
8. By giving up you can achieve more than with perseverance.
9. The expression *Keep it simple stupid* (KISS) may have its roots in the history of Leiden University around 1700.
10. We may be not the best, but we should do our best.

