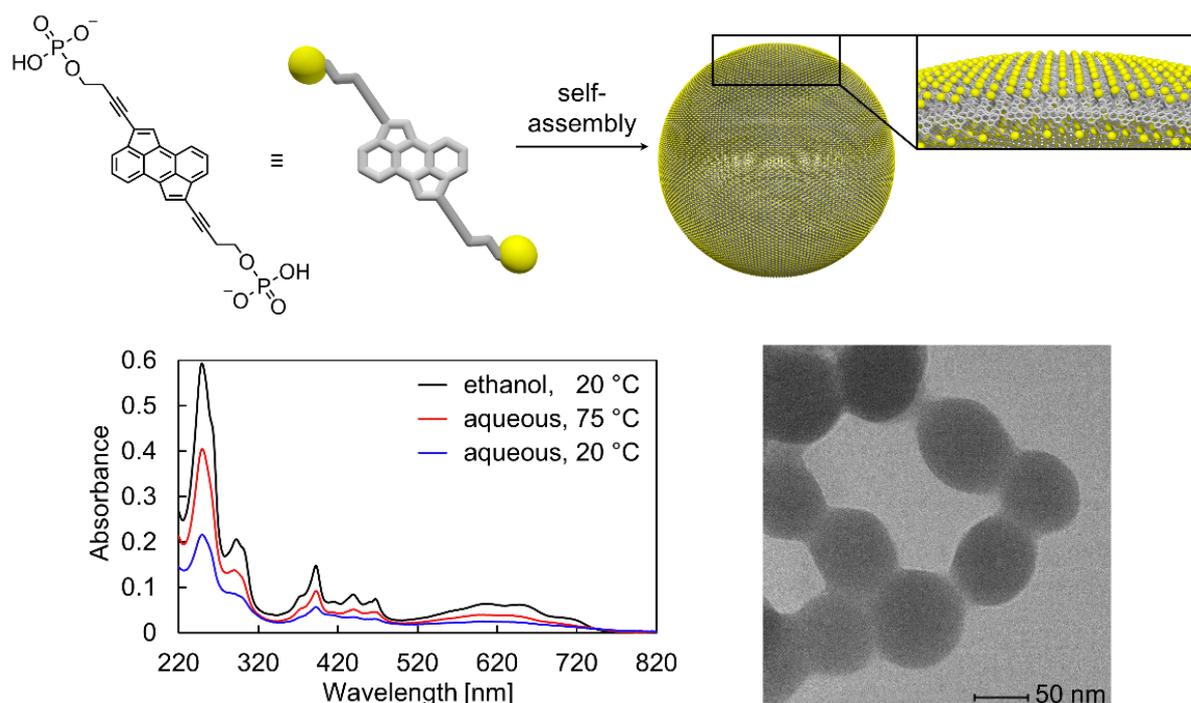


## Water-Soluble Supramolecular Polymers Based on a Redox-Active Bolaamphiphile

Simon Rothenbühler, Caroline D. Bösch, Simon M. Langenegger, Shi-Xia Liu, and Robert Häner

Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, 3012 Bern,  
Switzerland  
simon.rothenbuehler@dcb.unibe.ch

A low optical bandgap and fullerene-like electron affinity of functionalized cyclopenta[*hi*]aceanthrylene (cypac) was reported and potential applications as electron acceptors in organic solar cells are suggested among others.<sup>[1]</sup> In this work, a water-soluble, bolaamphiphilic cypac derivative with a low-lying LUMO and intense absorption bands over an extended range of the UV-visible spectral region has been synthesized.<sup>[2]</sup> Self-assembly of cypac-bis-phosphate in aqueous medium leads to the formation of a supramolecular polymer with a vesicular morphology. The electronic properties of the monomer remain largely intact upon supramolecular polymer formation, as evidenced by UV-vis and cyclic voltammetry measurements.



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- [2] S. Rothenbühler, C. D. Bösch, S. M. Langenegger, S.-X. Liu, R. Häner, *Org. Biomol. Chem.*, **2018**, DOI: 10.1039/c8ob02106f.