

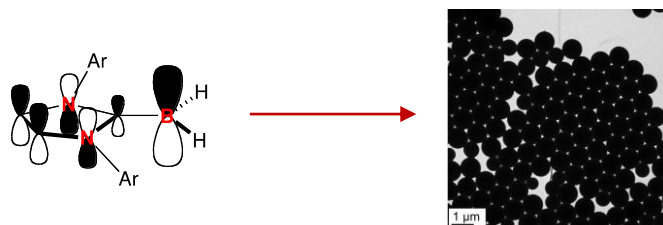
PhD Seminar

"Visible-light-triggered radical chemistry: From the generation of Boron-based radicals to the synthesis of controlled-sized polymer particles"

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Abstract

In the present talk we will first present how NHC-Boryl radicals can be formed using visible light, and used to initiate efficient photopolymerizations in dispersed media (emulsion and dispersion) – despite the scattering of the photons by the particles formed. The latexes generated are made of monodisperse particles with sizes up to the micrometer-scale.



We will then extend the photopolymerization process to the formation of filmogenic CeO₂-armed polymer particles via a new Pickering-type process. The films obtained are mechanically stronger, screen UV and photocatalytical.

