

PPSM Seminars – Invited Professors

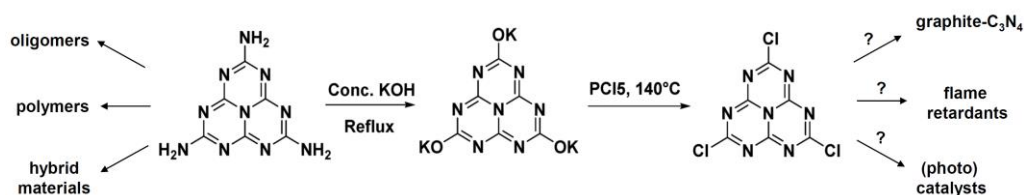
Tuesday afternoon, 5th of October 2021, 2:30pm – 4:30pm

ENS Paris-Saclay – 1st Floor – Room 1N82 (East side)

Prof. Edwin Kroke TU Bergakademie Freiberg, Germany

“s-Heptazines – heterocycles with interesting properties and versatile potential applications”

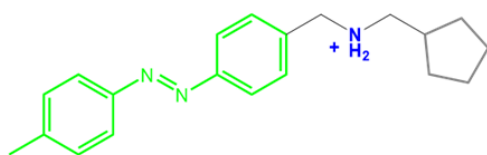
s-Heptazines, *i.e.* compounds containing the tricyclic aromatic building block C_6N_7 , have been discovered in the 1830s. We investigated synthesis routes to symmetric and asymmetric derivatives. The fact, that s-heptazine polymers like melon $[C_6N_9H_3]_n$ were found to be semiconductors and (photo)catalysts initiated a lot of research activities in recent years. Molecular derivatives might also be useful (photo)catalysts. We observed that some derivatives show (photo)luminescence while others might be useful flame retardants.



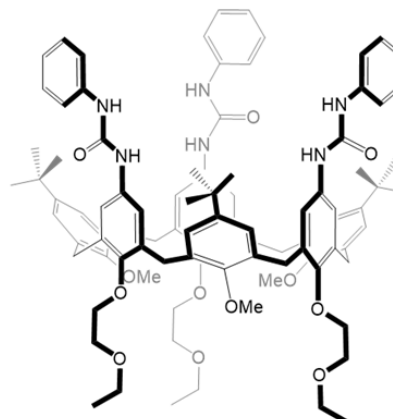
Prof. Serena Silvi Università di Bologna, Italy

“Photo- and redox- active artificial molecular machines and motors”

We will describe here some recent investigations undertaken in our laboratory on photo- and electroactive molecular devices, based on two classes of molecules, which are endowed with peculiar features for the design of directionally controlled motors.



Module for photoactive molecular machines



Host for electroactive molecular machines