



fscitnm@ku.ac.th

Dye-Sensitized Solar Cells:

Synthesis of organic dyes inclusion complex with cucurbit[n]urils

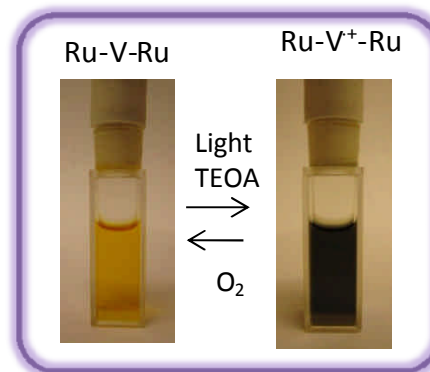
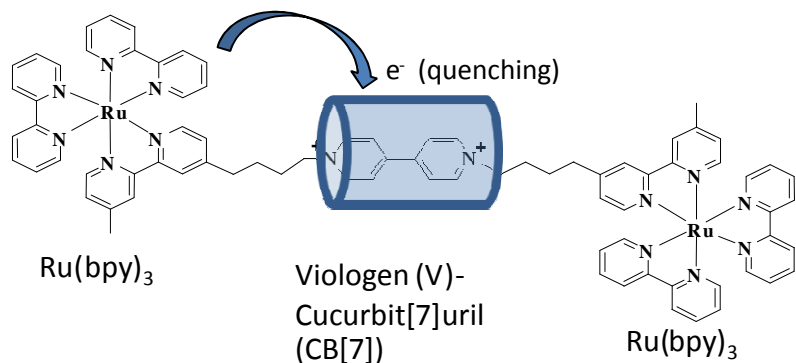
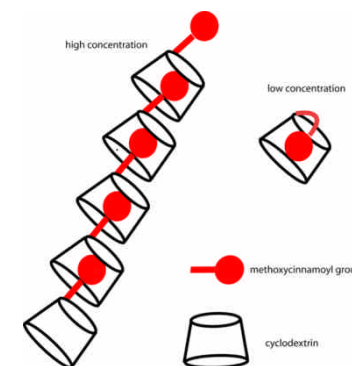
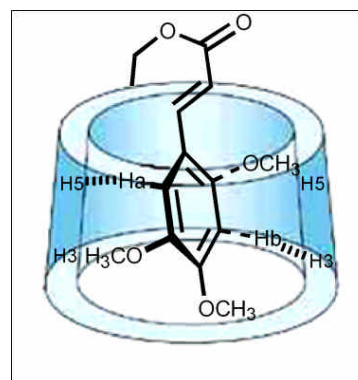
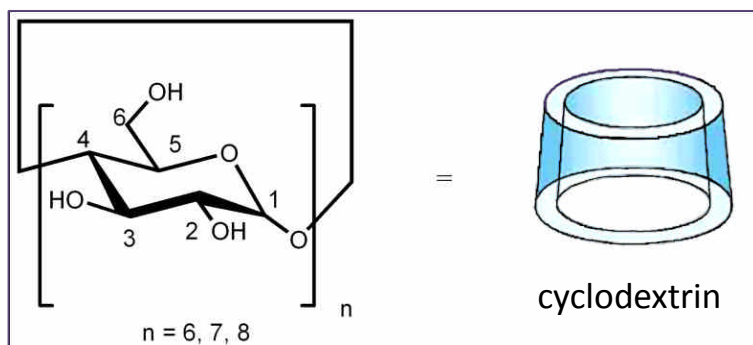


Photo-Induce electron transfer generated viologen radical which could be holed inside the CB[7]. This process could be reversed by exposing to the oxygen

The main goal of this project is to develop the efficient of organic dye by forming the inclusion complexes with cucurbit[n] uril

Cosmetics/ Sunscreens:

Modified cyclodextrins with UV-actived compounds



The aim of this project is to modified cyclodextrin with UV-absorption units e.g. sunscreens, dyes and other photo-active units to increase their stability

Selected Publications:

Karpkird, M. T., Andersson, S., Sun, L. *Chem. Eur. J.*, 2011, 17, 11604-11612