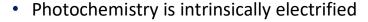
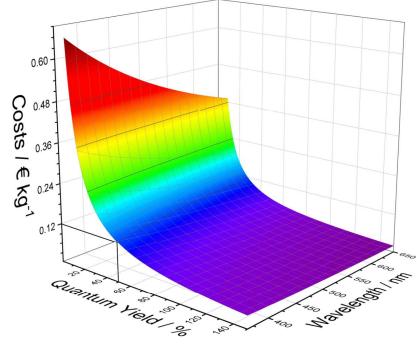
Photochemistry for a sustainable and carbon

neutral chemical industry



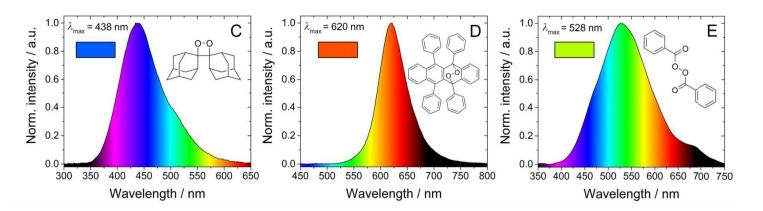


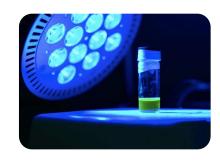
- Efficient light generation through modern "high power LEDs"
- Can potentially be powered 100% by energy from renewable sources
- Ideally enables CO₂ neutral chemical processes
- Photo redox chemistry enables game changing reactions like: CO₂ reduction and N₂ fixation



- To drive a Photochemical reaction economically a good quantum yield is needed
- Necessity to develop stable and efficient photocatalysts

Photochemistry for Novel Peroxides





S. Schramm, D. P. Karothu, N. M. Lui, P. Commins, E. Ahmed, L. Catalano, L. Li, J. Weston, K. M. Solntsev, P. Naumov, *Nature Communication*, **2019**, 10, 997, 2019

