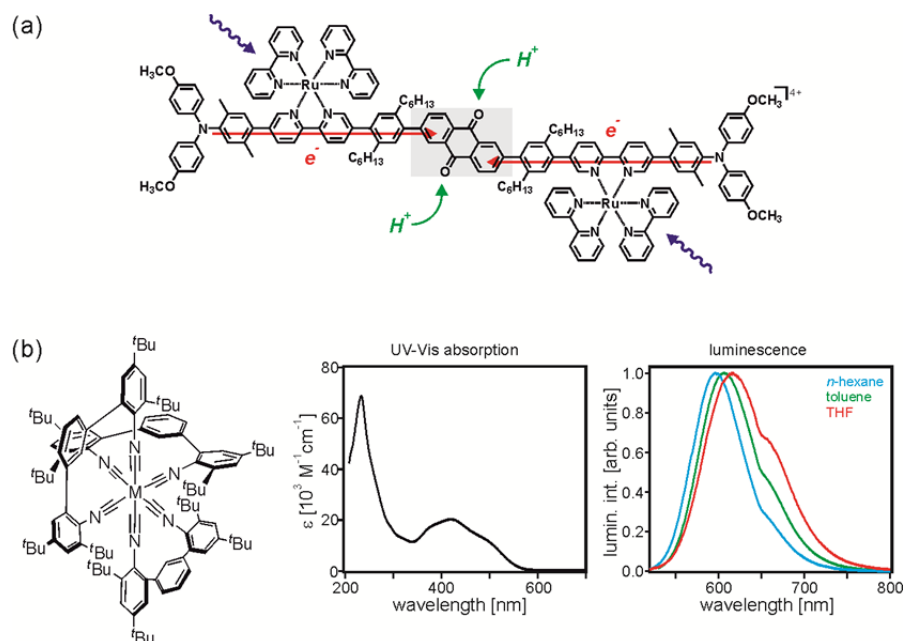


# From Photoinduced Electron Transfer to Charge Accumulation and New Photosensitizers

Oliver S. Wenger

Department of Chemistry, University of Basel, Switzerland

Electron transfer rates usually decrease with increasing donor-acceptor distance, but under certain conditions opposite behavior can be observed. In a series of donor-acceptor compounds we recently observed increasing electron transfer rates with increasing distance.<sup>[1,2]</sup> Light-driven accumulation of redox equivalents is of interest for artificial photosynthesis, and two case studies in which we were able to accomplish multi-electron transfer without sacrificial donors will be presented (Figure 1a).<sup>[3,4]</sup> In the third part of the talk, new photosensitizers (Figure 1b) made from earth-abundant metals such as Cr(0), Mo(0), and Ni(0) will be presented.<sup>[5-8]</sup>



**Figure 1.** (a) Photodriven accumulation of redox equivalents; (b) new photosensitizers with MLCT excited states.

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