

## Electronic supplementary information

### *Redox-Driven Porphyrin based Systems for New Luminescent Molecular Switches*

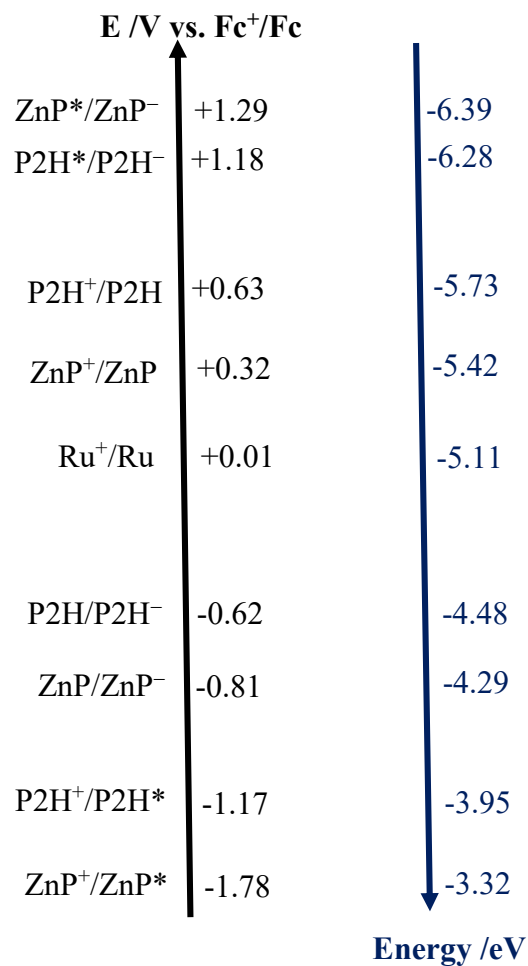
*Lucie Norel,<sup>†</sup> Clarisse Tourbillon,<sup>//</sup> Julien Warnan,<sup>‡</sup> Yann Pellegrin,<sup>‡</sup> Fabien Miomandre,<sup>\*//</sup>  
Fabrice Odobel,<sup>\*‡</sup> and Stéphane Rigaut<sup>\*†</sup>*

<sup>†</sup> Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) – UMR 6226, F-35000 Rennes, France

<sup>‡</sup> Université LUNAM, Université de Nantes, CNRS, Chimie et Interdisciplinarité: Synthèse, Analyse, Modélisation (CEISAM), UMR 6230, 2 rue de la Houssinière, 44322 Nantes cedex 3, France.

<sup>//</sup> UMR CNRS 8531-PPSM, ENS Cachan, Université Paris-Saclay, 61 Avenue Président Wilson, 94235 Cachan, France

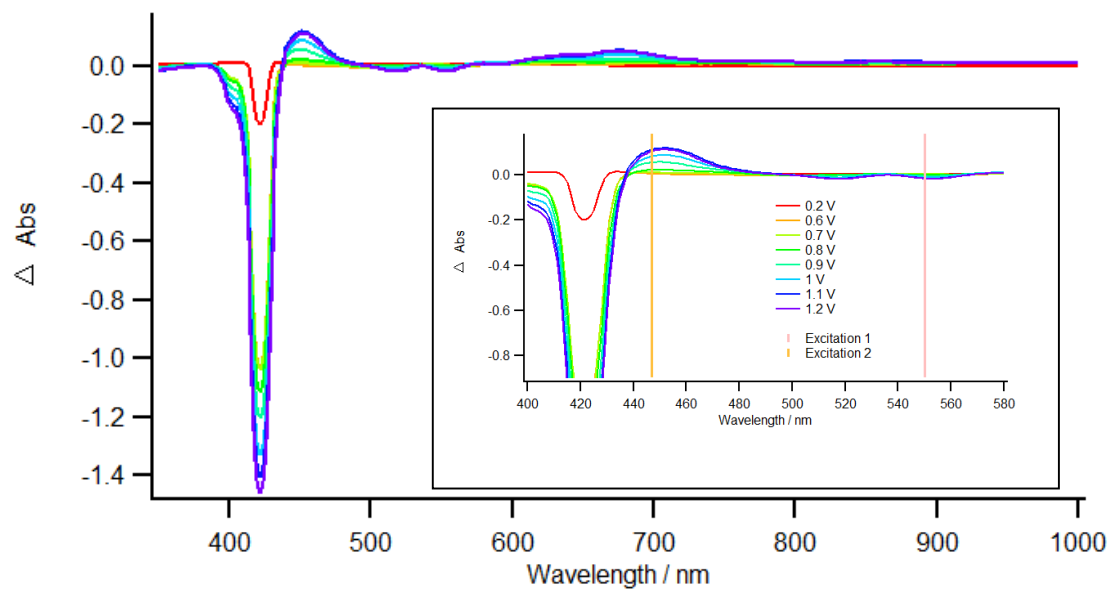
## Additional redox data



**Figure S1.** Redox potentials and corresponding electronic energy levels based on  $E_{00}(^1ZnP^*) = 2.1$  eV,  $E_{00}(^1P2H^*) = 1.8$  eV and the electronic energy level of Fc equal to -5.1 eV.

(Ref. : THE ABSOLUTE ELECTRODE POTENTIAL - AN EXPLANATORY NOTE - RECOMMENDATIONS 1986. S. Trasatti *Pure and Applied Chemistry* 1986, **58**, 955-66)

## Additional fluorescence data



**Figure S2.** Variation of absorbance with applied potential for **5** in DCB. The reference spectrum is recorded at open circuit potential. Each absorption spectrum is recorded after 40s at the indicated potential. Inset shows a zoom in the excitation region.