

Electronic Supplementary Information

Photodynamic optical sensor for buffer capacity and pH based on hydrogel-incorporated spiropyran

G. Mistlberger,^{*a} M. Pawlak,^{‡b} E. Bakker^b and I. Klimant^a

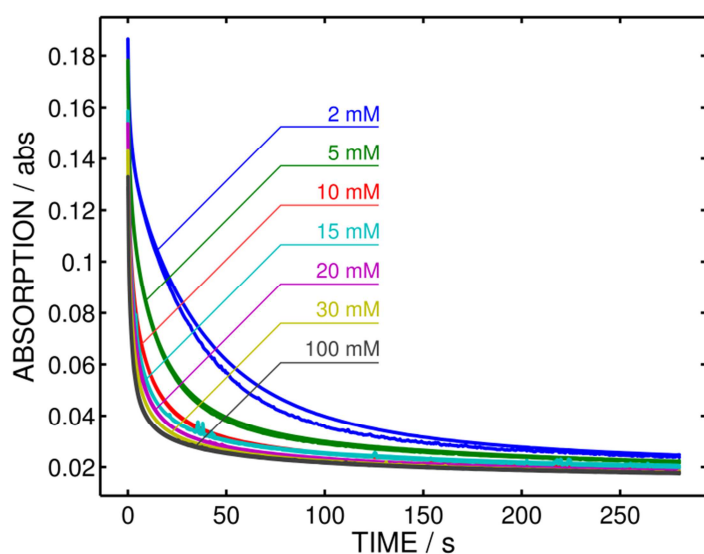


Figure S1. Kinetic response of the sensor film after UV illumination monitored over 280 seconds. The final point almost reaches the same, pH-dependent value, while shortly after the illumination the signal depends on the buffer concentration in the sample. A slight stirring effect is visible in the 2 mM sample, meaning that the transport of protons to the hydrogel is diffusion limited without pumping of the sample.

Author Address

^a Graz University of Technology, Institute of Analytical Chemistry and Food Chemistry, 8010 Graz, Austria. E-mail: g.mistlberger@gmail.com

^b University of Geneva, Department of Inorganic and Analytical Chemistry, 1211 Geneva 4, Switzerland.

[‡] Current address: Optiqua Technologies, 82 WaterHub Toh Guan Road East #C2-11/1, 608576 Singapore