

Supporting informations

Surface modification with thermoresponsive polymer brushes for a switchable electrochemical sensor

Clément Comminges,^{*a†} Stefano Frasca^a, Martin Sütterlin^b, Erik Wischerhoff^c, André Laschewsky^b and Ulla Wollenberger^{*a}

^a *Institut für Biochemie und Biologie, Universität Potsdam, Karl-Liebknecht-Str.24-25, Haus 25, 14476 Potsdam-Golm, Germany. Fax: +49 331 977 5128; Tel: +49 331 977 5122; E-mail:*

uwollen@uni-potsdam.de

^b *Institut für Chemie, , Universität Potsdam , Karl-Liebknechtstraße 24-25, 14476 Potsdam-Golm, Germany.*

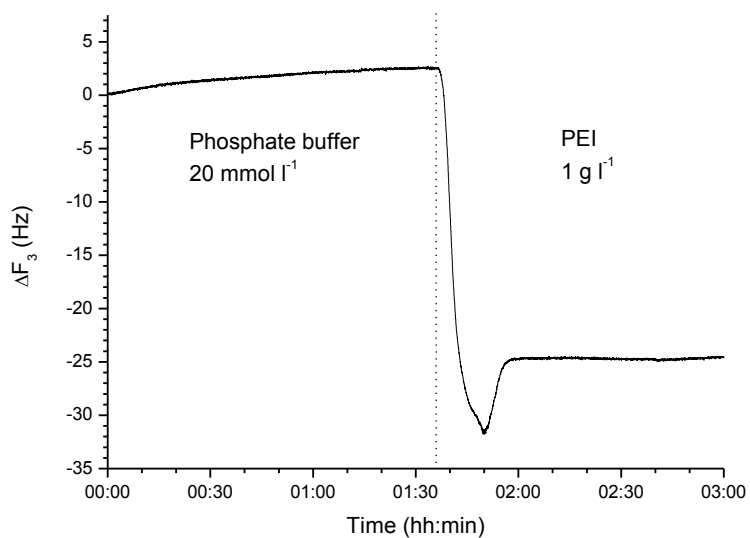
^c *Fraunhofer-Institut für Angewandte Polymerforschung (IAP), Geiselbergstraße 69, 14476 Potsdam-Golm, Germany.*

[†] *Permanent address, Université de Poitiers, UFR SFA - Bâtiment B27, 4 rue Michel Brunet, TSA 51106, 86073 Poitiers cedex 9, France. Fax: +33 5 49453580; Tel: (+33)5 49453628; E-mail:*

clement.comminges@univ-poitiers.fr

Supporting figure 1

Covalent coupling of PEI onto the DTSP modified gold substrate monitored with E-QCM-D. Frequency shift versus time.



Supporting figure 2

Layer by Layer assembly of polyelectrolytes onto the PEI modified gold substrate. Dissipation shift versus layer number.

