Highly stable perylenediimide based self-assembled monolayers studied by spectroelectrochemistry

Submitted by Eric LEVILLAIN on Fri, 03/04/2016 - 09:53

Titre
Highly stable perylenediimide based self-assembled monolayers studied by spectroelectrochemistry

Type de publication
Article de revue

Auteur
Levillain, Eric [1], Bkhach, Sihame [2], Le Duc, Yan [3], Alévêque, Olivier [4], Gautier, Christelle [5], Hudhomme, Piétrick [6]

Pays
Allemagne

Editeur
Wiley

Ville
Weinheim

Type
Article scientifique dans une revue à comité de lecture

Année
2016

Langue
Anglais

Date
02 Mars 2016

Pagination
887–891

Titre de la revue
ChemElectroChem

ISSN
2196-0216

Résumé en anglais
Perylenediimide (PDI) based self-assembled monolayers (SAMs) have been studied by quartz crystal microbalance, X-ray photoelectron spectroscopy, cyclic voltammetry and spectroelectrochemistry (SEC). The high stability of PDI based SAMs has allowed probing very low signals by absorption and emission SEC and extracting voltabsorptograms. The wavelengths of absorption maxima of PDI, anion radical and dianion species. In contrast, the magnitudes of the molar extinction coefficient of the reduced forms were not preserved in SAM. The quenching of PDI fluorescence was confirmed on gold substrate.

URL de la notice

DOI
10.1002/celc.201600034 [8]

Lien vers le document

Titre abrégé
ChemElectroChem

Liens
Publié sur Okina (http://okina.univ-angers.fr)