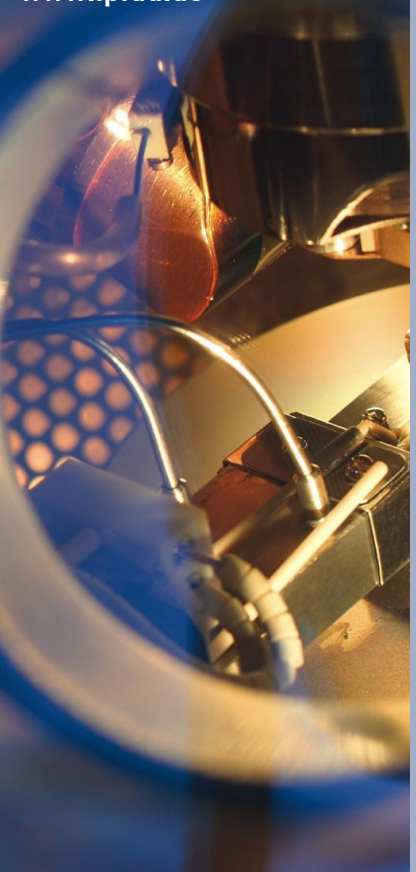
Nanosensoren auf der Basis von auf stimulusempfänglichen Polymerbürsten immobilisierten Nanopartikeln

Leibniz-Institut
für Polymerforschung
Dresden e.V.

Hohe Str. 6
01069 Dresden

Postadresse:
Postfach 120 411
01005 Dresden

www.ipfdd.de



Abstract

The invention is directed to a sensor comprising:

- a substrate
- a polymer brush formed of polymer molecules anchored by a first end to a surface of the substrate and having a second, free end located on the terminal end opposite to the first end
- nanoparticles fixed to the second end of the polymer brush.

The invention is further directed to a method for obtaining said sensor and the use of the sensor for detecting a variety of organic analytes.

Vorteile

- nanosensor for the detection of solvents
- data recording via optical analysis

Amtliches Aktenzeichen: EP 000002128598 A1

Ansprechpartner:

Antonio Reguero LL.M.

Abteilung:

Forschungsplanung und -koordinierung
Tel.: +49 (0) 351 4658 213
Fax: +49 (0) 351 4658 98394
E-Mail: reguero@ipfdd.de

Leibniz Leibniz-Gemeinschaft DRESDEN concept