



## Graphical Abstracts/Chin Chem Lett 25 (2014) iii–xii

## Original articles

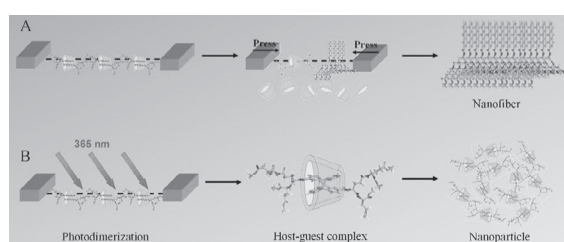
### Interfacial assembly and host–guest interaction of anthracene-conjugated L-glutamate dendron with cyclodextrin at the air/water interface

Long Qin, Peng-Fei Duan, Ming-Hua Liu

Beijing National Laboratory for Molecular Science, CAS Key Laboratory of Colloid, Interface, and Chemical Thermodynamics, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

The interfacial assembly of atypical anthracene-containing amphiphilic dendron and its photo-induced dimerization through host–guest interaction with  $\gamma$ -cyclodextrin at air/water interface.

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### Photoelectrochemical properties of MWCNT–TiO<sub>2</sub> hybrid materials as a counter electrode for dye-sensitized solar cells

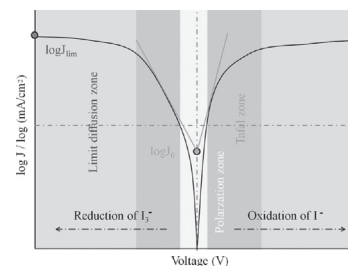
Yu-Qiao Wang<sup>a,b</sup>, Xue-Ling Gao<sup>a</sup>, Bo Song<sup>a</sup>, Yun-Liang Gu<sup>a</sup>, Yue-Ming Sun<sup>a,b</sup>

<sup>a</sup>School of Chemistry & Chemical Engineering, Southeast University, Nanjing 211189, China

<sup>b</sup>Jiangsu Optoelectronic Functional Materials & Engineering Laboratory, Nanjing 211189, China

The results of the electrochemical impedance spectroscopy and Tafel measurements indicate that the reduction process from triiodide to iodide at the counter electrode surface is determined by the kinetic-controlled and diffusion-limited processes.

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### Pd-based nanoporous metals for enzyme-free electrochemical glucose sensors

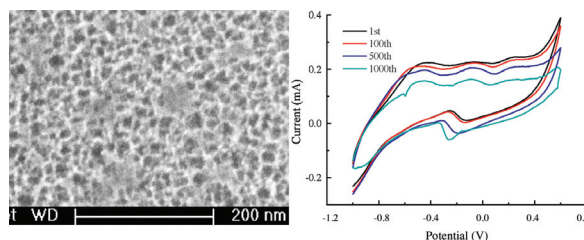
Chun-Lei Yang<sup>a</sup>, Xu-Hai Zhang<sup>a</sup>, Guo Lan<sup>a</sup>, Lu-Yang Chen<sup>b</sup>, Ming-Wei Chen<sup>b</sup>, Yu-Qiao Zeng<sup>a</sup>, Jian-Qing Jiang<sup>a</sup>

<sup>a</sup>Jiangsu Key Laboratory of Advanced Metallic Materials, School of Materials Science and Engineering, Southeast University, Nanjing 211189, China

<sup>b</sup>Institute for Materials Research, Tohoku University, Sendai 980-8577, Japan

Pd-based NPM with a pore size of 11 nm and a ligament size of 7 nm in this study exhibits an open, three-dimensional, ligament-channel nanoporous structure on the surface, and good stabilities during 1000 cycles of CV testing.

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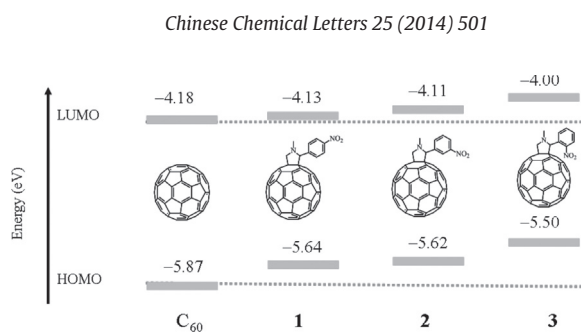


## Effect of the position of substitution on the electronic properties of nitrophenyl derivatives of fulleropyrrolidines: Fundamental understanding toward raising LUMO energy of fullerene electron-acceptor

Xuan Zhang, Xu-Dong Li

College of Chemistry, Chemical Engineering & Biotechnology, Donghua University, Shanghai 201620, China

The through-space orbital interaction between spatially closed *ortho*-nitrophenyl substituent and fullerene cage efficiently raised the LUMO energy level of fullerene electron-acceptor.



## Electrochemical determination of quercetin by self-assembled platinum nanoparticles/poly(hydroxymethylated-3,4-ethylenedioxythiophene) nanocomposite modified glassy carbon electrode

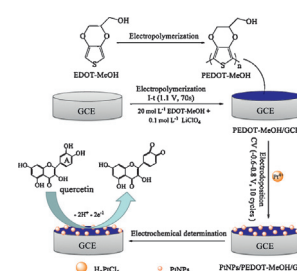
Yuan-Yuan Yao<sup>a,b</sup>, Long Zhang<sup>a</sup>, Zi-Fei Wang<sup>a,b</sup>, Jing-Kun Xu<sup>a</sup>, Yang-Ping Wen<sup>b</sup>

<sup>a</sup>Jiangxi Key Laboratory of Organic Chemistry, Jiangxi Science and Technology Normal University, Nanchang 330013, China

<sup>b</sup>College of Science, Jiangxi Agricultural University, Nanchang 330045, China

A simple and sensitive electrochemical sensor was fabricated for the trace determination of quercetin by electro-deposition of platinum nanoparticles (PtNPs) on poly(hydroxymethylated-3,4-ethylenedioxythiophene) modified glassy carbon electrode (PEDOT-MeOH/GCE).

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## One-step co-electrodeposition of graphene oxide doped poly(hydroxymethylated-3,4-ethylenedioxythiophene) film and its electrochemical studies of indole-3-acetic acid

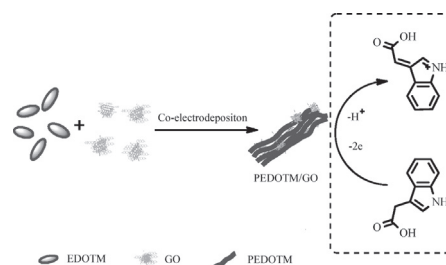
Zi-Lan Feng<sup>a,b</sup>, Yuan-Yuan Yao<sup>a</sup>, Jing-Kun Xu<sup>a</sup>, Long Zhang<sup>a</sup>, Zi-Fei Wang<sup>a,b</sup>, Yang-Ping Wen<sup>b</sup>

<sup>a</sup>Jiangxi Key Laboratory of Organic Chemistry, Jiangxi Science and Technology Normal University, Nanchang 330013, China

<sup>b</sup>College of Science, Jiangxi Agricultural University, Nanchang 330045, China

A novel graphene oxide doped poly(hydroxymethylated-3,4-ethylenedioxythiophene) (PEDOTM) film has been prepared via one-step co-electrodeposition and utilized in the electrochemical studies of the phytohormone, indole-3-acetic acid.

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## Electrochemical sensor based on *f*-SWCNT and carboxylic group functionalized PEDOT for the sensitive determination of bisphenol A

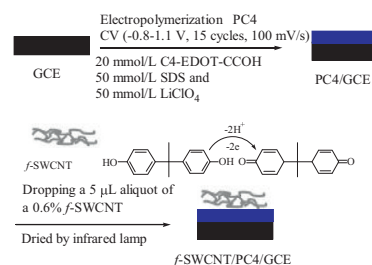
Long Zhang<sup>a</sup>, Yang-Ping Wen<sup>b</sup>, Yuan-Yuan Yao<sup>a</sup>, Zi-Fei Wang<sup>b</sup>, Xue-Min Duan<sup>a</sup>, Jing-Kun Xu<sup>b</sup>

<sup>a</sup>School of Pharmacy, Jiangxi Science & Technology Normal University, Nanchang 330013, China

<sup>b</sup>Jiangxi Key Laboratory of Organic Chemistry, Jiangxi Science and Technology Normal University, Nanchang 330013, China

The stepwise preparation of *f*-SWCNT/PC4/GCE electrochemical sensor and the mechanism of oxidation of bisphenol A were described in this paper.

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