



Supporting Information

© Wiley-VCH 2006

69451 Weinheim, Germany

Enhancement of Pt utilization in electrocatalysts using gold nanoparticles

*Dan Zhao and Bo-Qing Xu**

[*] Dan Zhao, Prof. Bo-Qing Xu

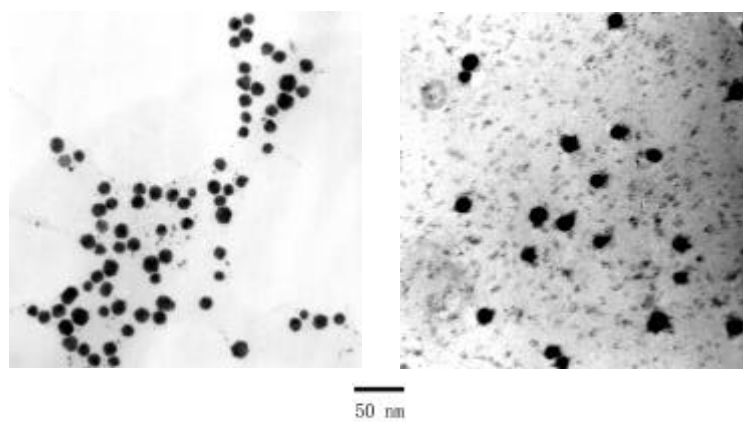
Innovative Catalysis Program, Key Lab of Organic Optoelectronics & Molecular Engineering, Department of Chemistry, Tsinghua University, Beijing 100084, China.

Fax: (+86)10-6279-2122 E-mail: bqxu@mail.tsinghua.edu.cn

1. **Table S1:** Surface molar Pt: Au ratios of samples determined by XPS measurements.

Samples	Pt/Au surface ratio	*N _{Pt} /nm ² _{Au}
Pt _{2.0} ^Au	-	-
Pt _{1.0} ^Au	4.76	62
Pt _{0.2} ^Au	0.89	12
Pt _{0.05} ^Au	0.22	3

2. **Figure S1.** TEM images of a) Pt_{0.5}^Au and b) Pt_{2.0}^Au.



3. **Figure S2.** The cyclic voltammetric curves in 0.5 M H₂SO₄ at a sweep rate of 20 mV/s at 298 K for a) Au/C, b) Pt_{0.05}^Au/C, c) Pt_{0.2}^Au/C, d) Pt_{2.0}^Au/C and e) Pt/C.

