

Supporting Information for

Rapid Preparation of Noble Metal Nanocrystals via Facile Coreduction with Graphene Oxide and Related Catalytic Properties

Guolei Xiang, Jie He, Tianyang Li, Jing Zhuang and Xun Wang*

Department of Chemistry, Tsinghua University, Beijing, 100084 People's Republic of China

Email: wangxun@mail.tsinghua.edu.cn

Figure S1. XPS result of Ti2p spectrum after reducing GO and TEM images of reduced graphene.

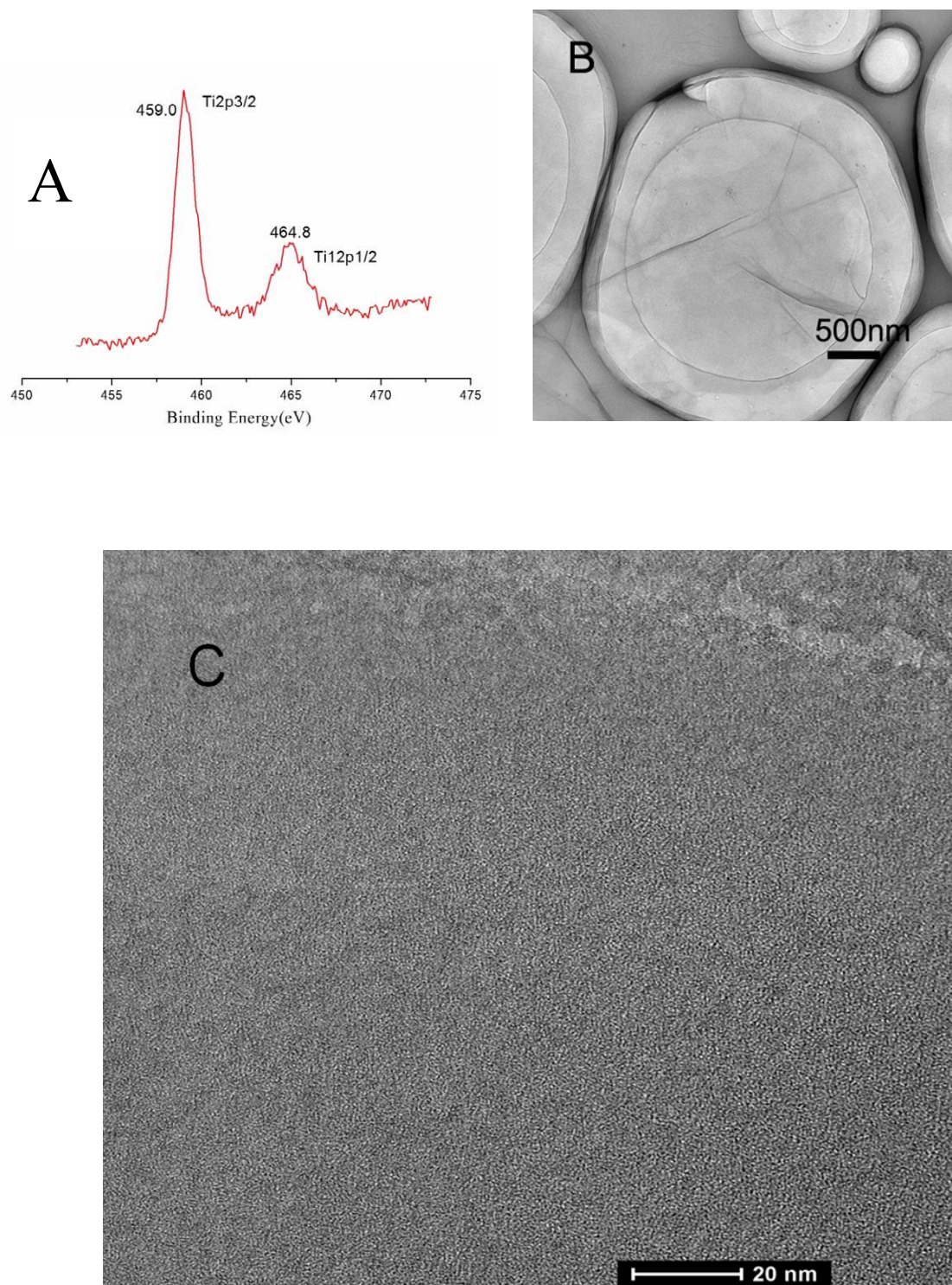


Figure S2. TEM image and AFM image of GO.

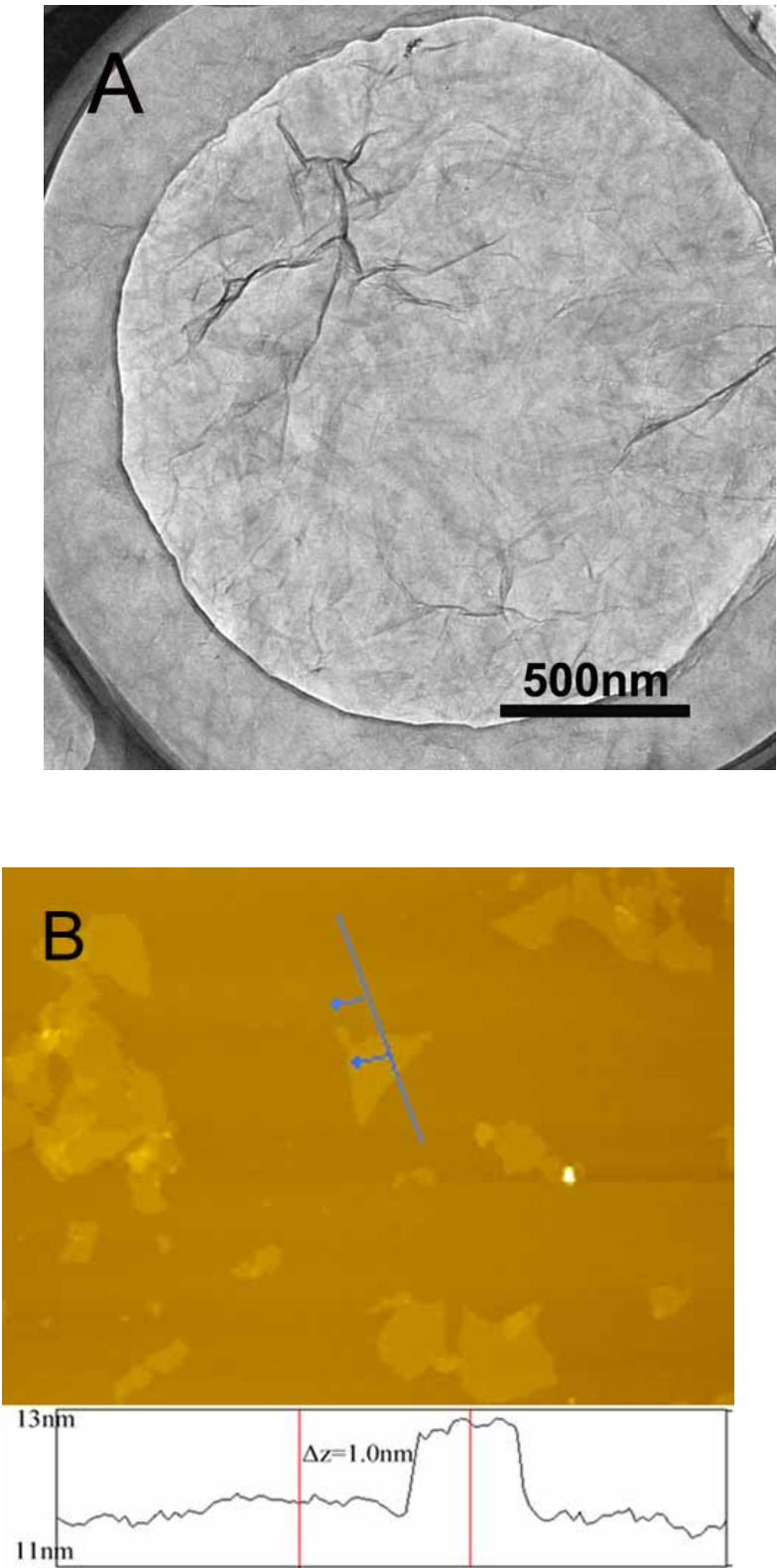


Figure S3. XRD patterns of graphite, GO and graphene.

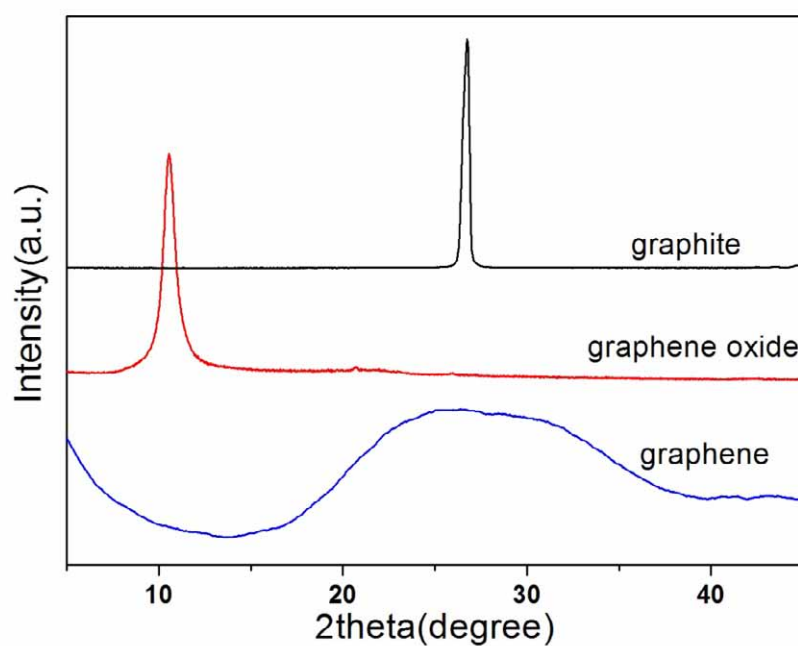
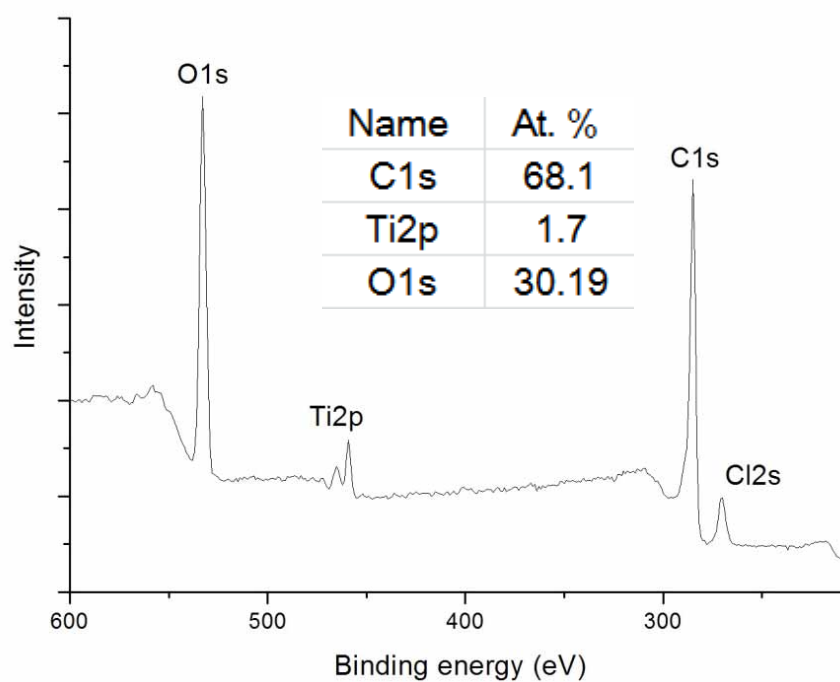


Figure S4. Survey XPS result of reduced graphene and states of Ti in terms of XPS, elemental mapping and HRTEM.



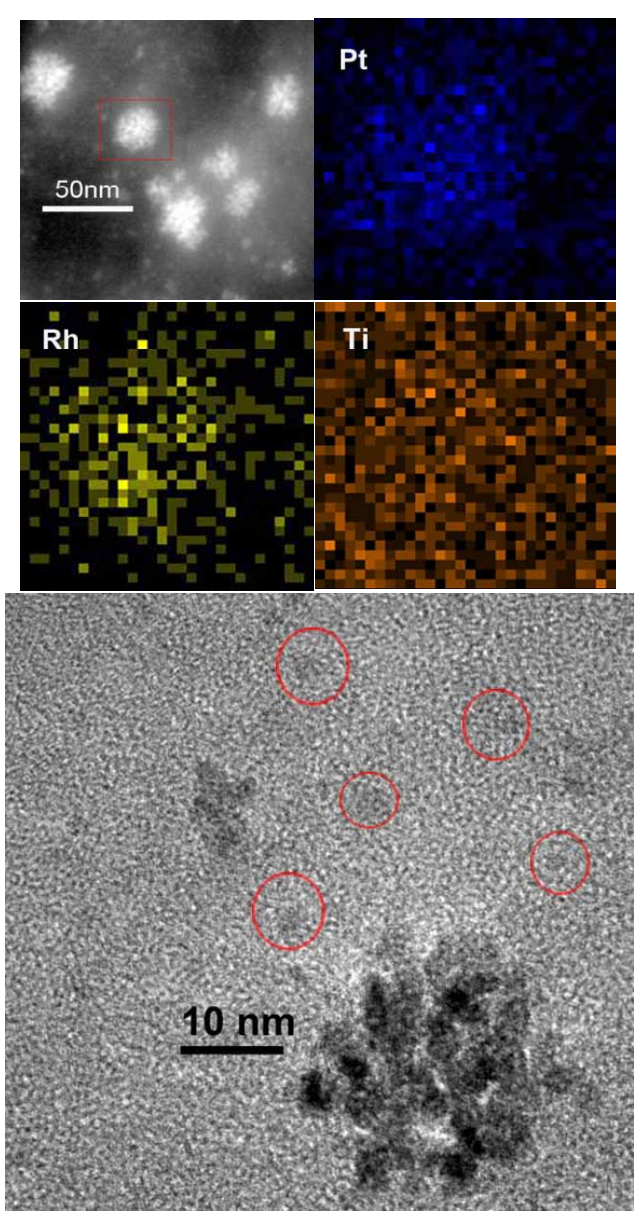
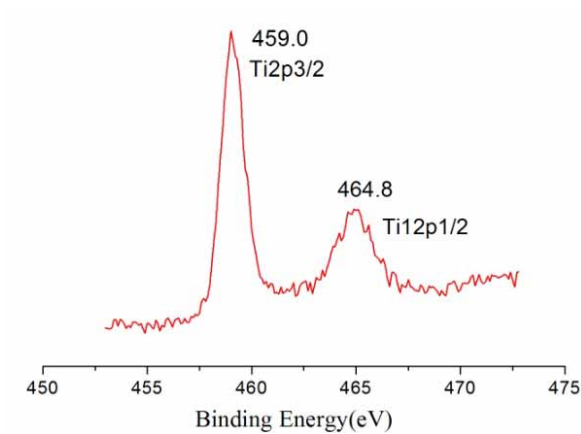
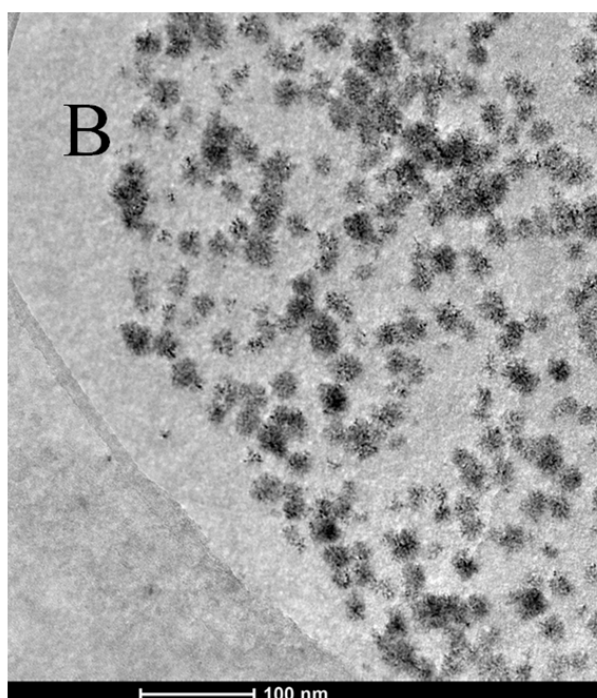
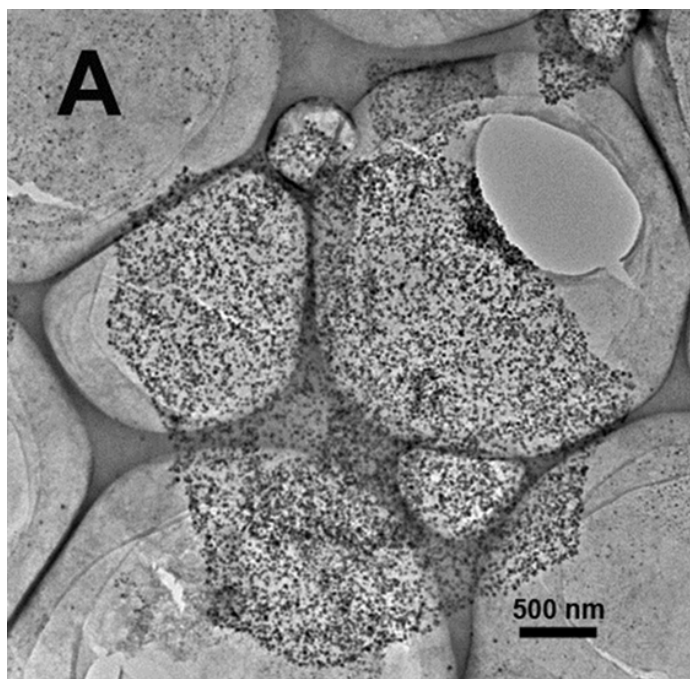
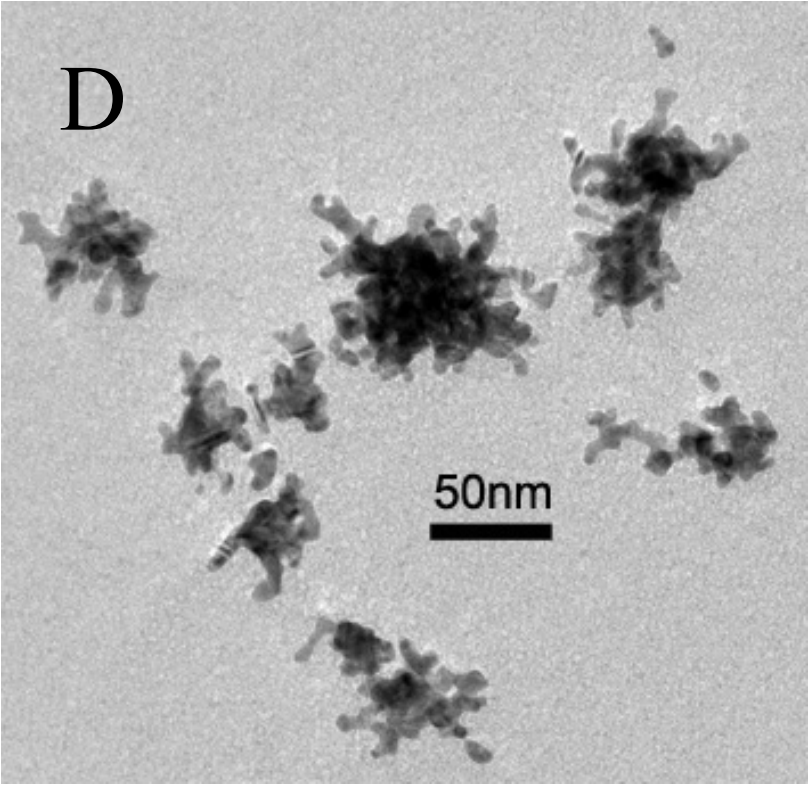
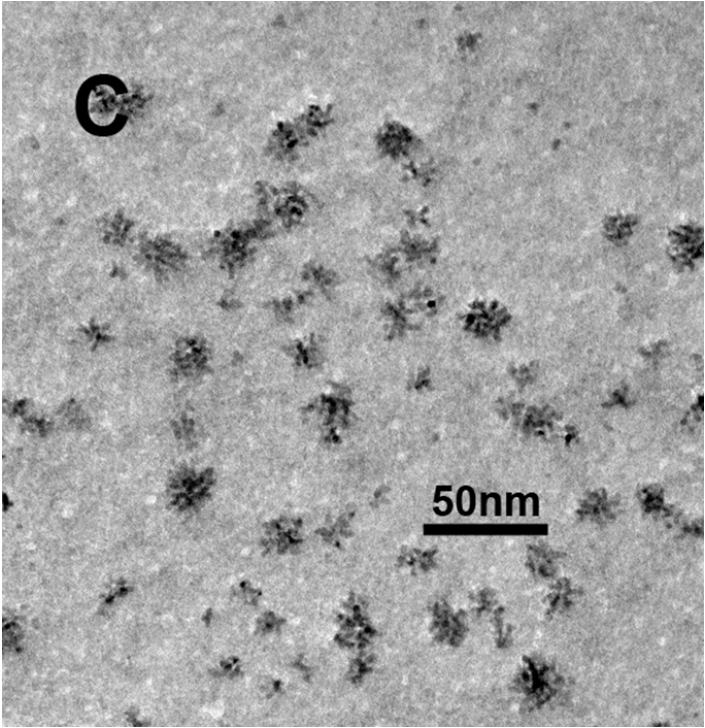


Figure S5. TEM images of Rh (A-C) and Au (D) nanodendrites. E, HRTEM image of Rh-Pt nanodendrite. F, Rh particles prepared in the absence of GO.





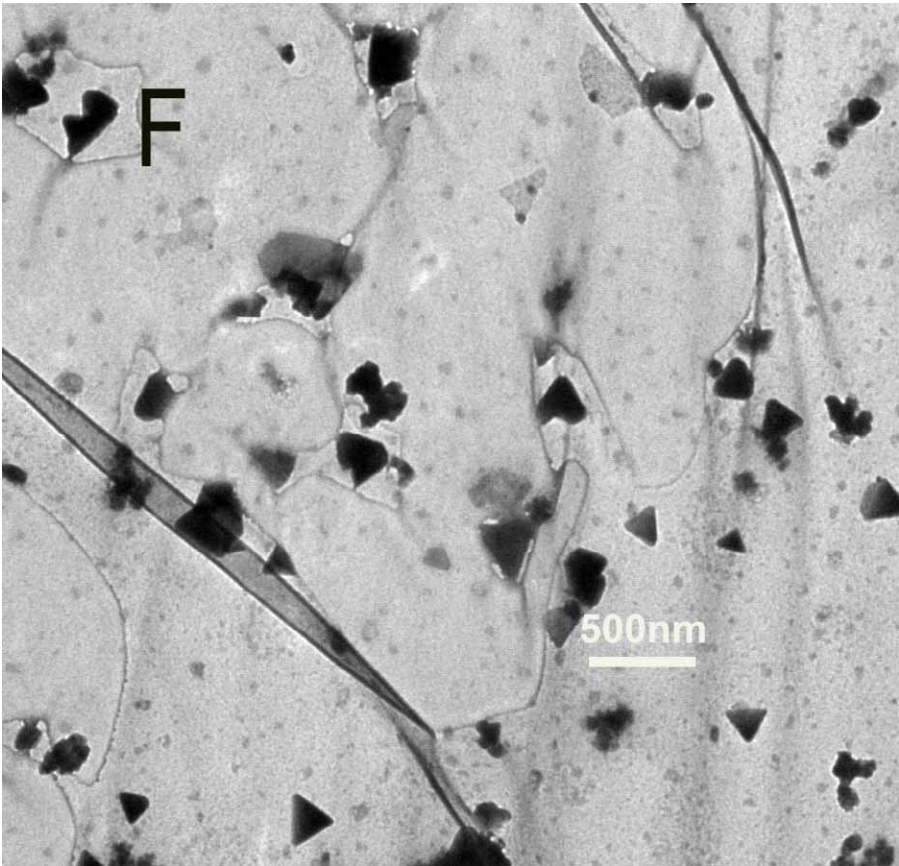
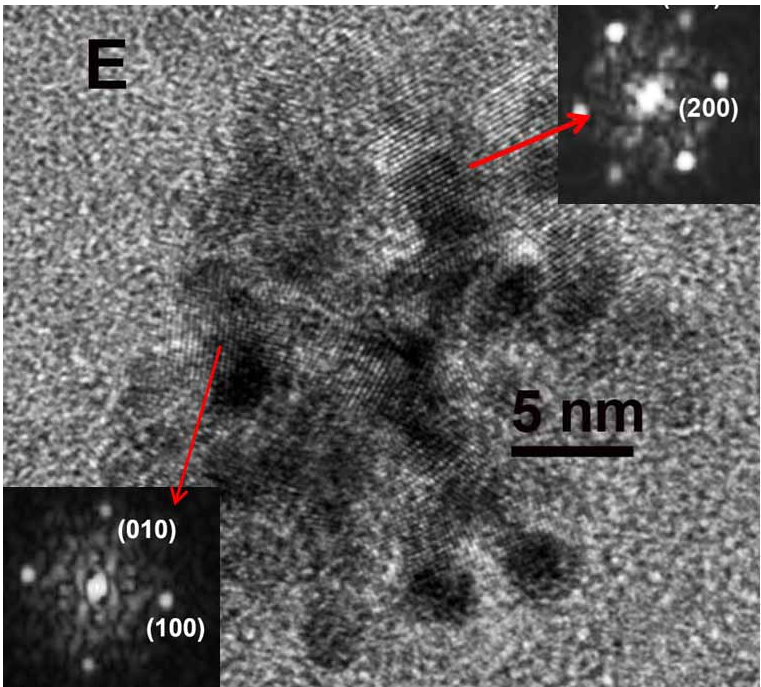


Figure S6. TEM images of (A) Pd and (B) Ru nanoparticles prepared in the presence of graphene.

