

Electrical Supplementary Information

Title: Core-Shell nano Crystallite Growth via Heterogeneous Interface Manipulation

Authors: Po-Wei Yang,^a Yu-Ting Liu,^b Shu-Ping Hsu,^c Kuan-Wen Wang,^c U-Ser Jeng,^d Tsang-Lang Lin,^a and Tsan-Yao Chen^{*a,e}

Affiliations:

a. Department of Engineering and System Science, National Tsing Hua University, Hsinchu 30013, Taiwan Fax: +886 3 5728445; Tel: +886 3 5742671; E-mail: chencaeser@gmail.com.

b. Department of Soil and Environmental Sciences, National Chung-Hsing University, Taichung, Taiwan. Yliu21@gmail.com

c. Institute of Materials Science and Engineering, National Central University, Taoyuan 32001, Taiwan. kuanwen.wang@gmail.com

d. National Synchrotron Radiation Research Center, Hsinchu 30076, Taiwan. usjeng@nsrrc.org.tw

e. Institute of Nuclear Engineering and Science, Hsinchu 30013, Taiwan Fax: +886 3 5728445; Tel: +886 3 5742671; E-mail: chencaeser@gmail.com

*To whom correspondence should be addressed:

Tsan-Yao Chen, email: chencaeser@gmail.com Tel: +886-3-5715131#34271;

1. SAXS analysis

The representative fitting curves with the experimental SAXS spectra of Rucore-Pt shell NPs with Pt/Ru ratios of 1.0, 2.0, 3.0 at different reaction temperatures.

