

Supporting Information

Few-nm-sized, phase-pure Au₅Sn intermetallic nanoparticles: synthesis and characterization

Satoshi Osugi,^a Shinjiro Takano,^a Shinya Masuda,^a Koji Harano,^a
and Tatsuya Tsukuda^{*a,b}

^aDepartment of Chemistry, Graduate School of Science, The University of Tokyo, 7-3-1
Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

^bElements Strategy Initiative for Catalysts and Batteries (ESICB), Kyoto University, Katsura,
Kyoto 615-8520, Japan

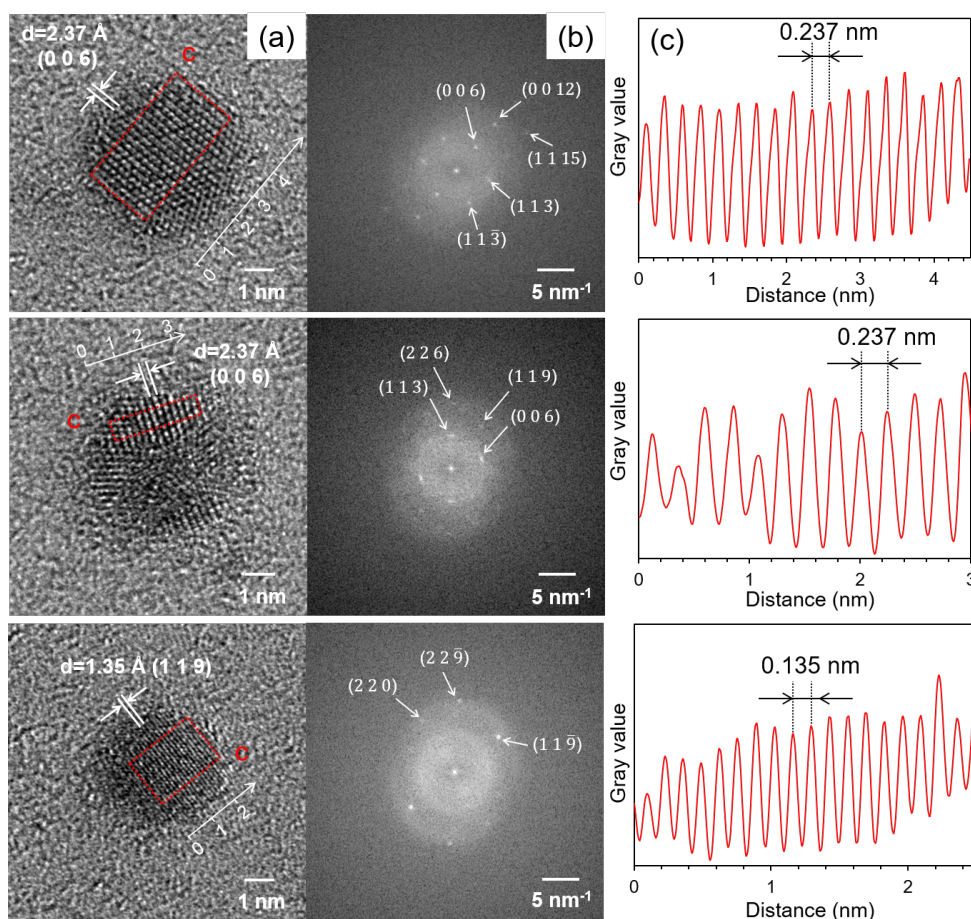


Fig. S1. (a) HRTEM images and (b) the corresponding fast FFT patterns of three NPs of AuSn(6:4)-OAm. (c) The intensity profiles along the white arrows in panel (a) calculated from the selected areas shown by red squares.

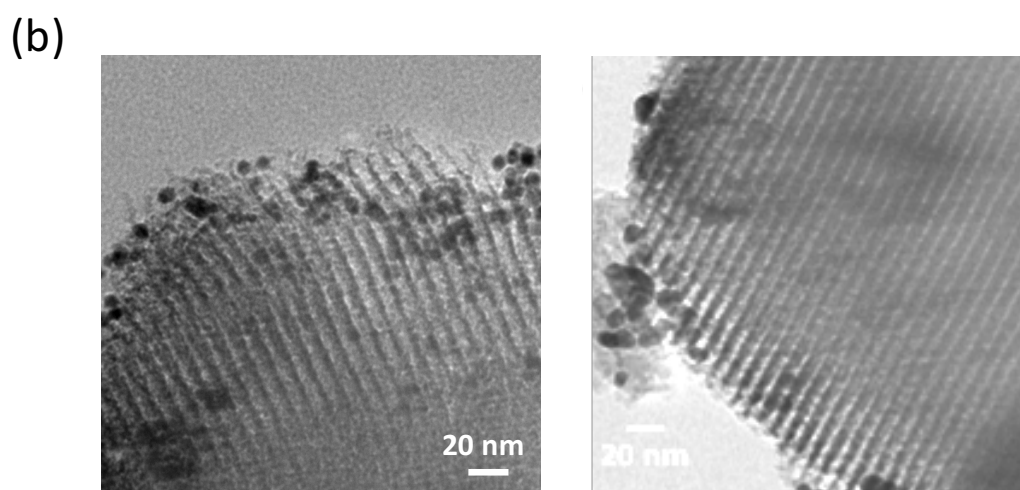
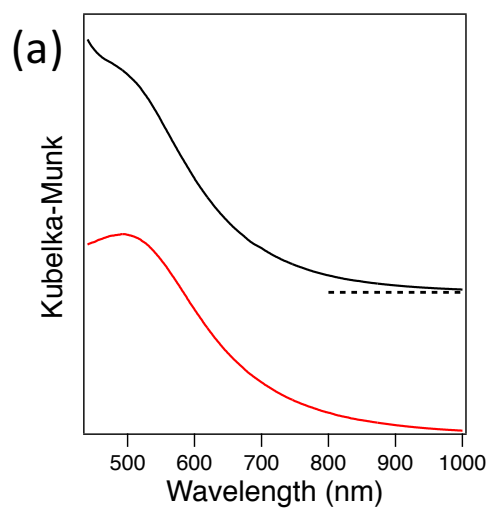


Fig. S2. (a) DR spectra of AuSn(6:4)/SBA-15 before (black) and after (red) the catalytic application. (b) Typical TEM images of AuSn(6:4)/SBA-15 before (left) and after (right) the catalytic application.