

Electronic Supplementary Information

Preparation of gold nanostars covered with platinum particles and their photoelectrocatalysis properties

Lihui Xu,^a Juan Xu,^a Xin Wang,^a Xingzhong Zhu,^{*a,b} and Caixia Kan^{*a,b}

^a College of Physics, Nanjing University of Aeronautics and Astronautics, Nanjing 211106, China.

^b Key Laboratory of Aerospace Information Materials and Physics (NUAA), MIIT, Nanjing 211106, China.

E-mail: xzzhu@nuaa.edu.cn; cxkan@nuaa.edu.cn

Supplementary figures



Fig. S1 The light test setup in a normal environment.

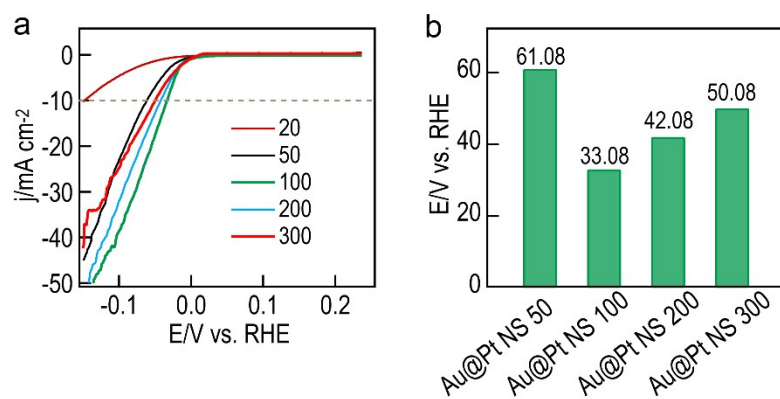


Fig. S2 (a) LSV curves without light by Au@Pt NS of various Au/Pt ratio samples. (b) Bar graph of the overpotential (η , at 10 mA cm⁻² HER current density) of Au@Pt NS of various Au/Pt ratio samples.

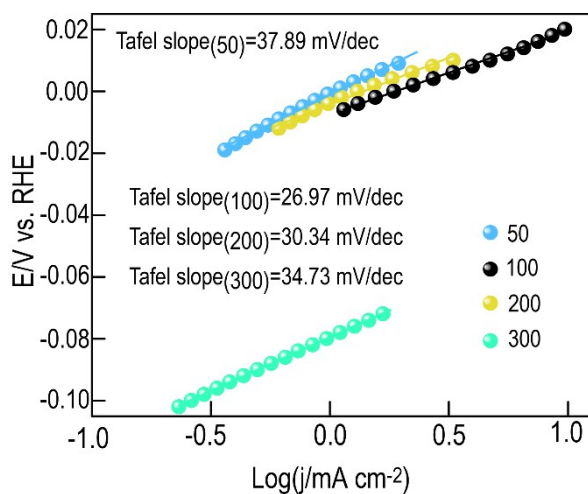


Fig. S3 The corresponding Tafel plots by Au@Pt NS of various Au/Pt ratio samples.

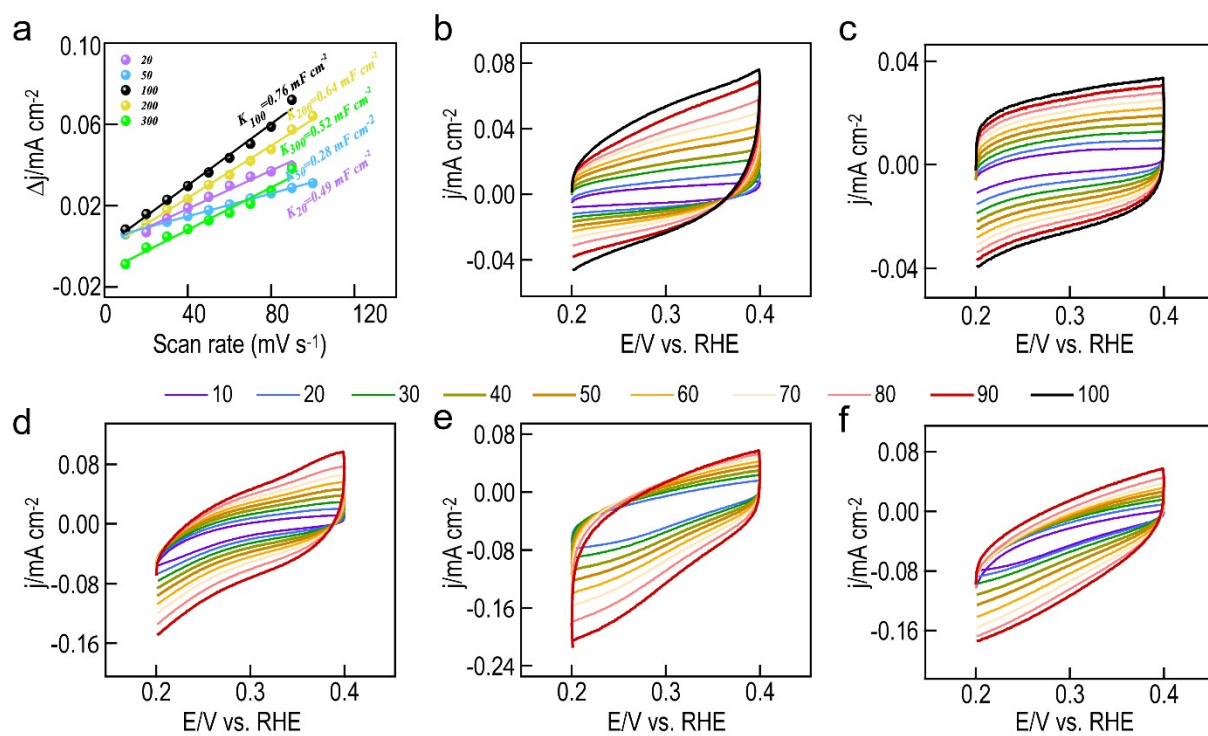


Fig. S4 The corresponding cyclic voltammetry plots by Au@Pt NS of various Au/Pt ratio samples.