CHEMPHYSCHEM

Supporting Information

Simplified Cost-Effective Preparation of High Performance Ag–Pt Nanowire Motors

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Figure Captions

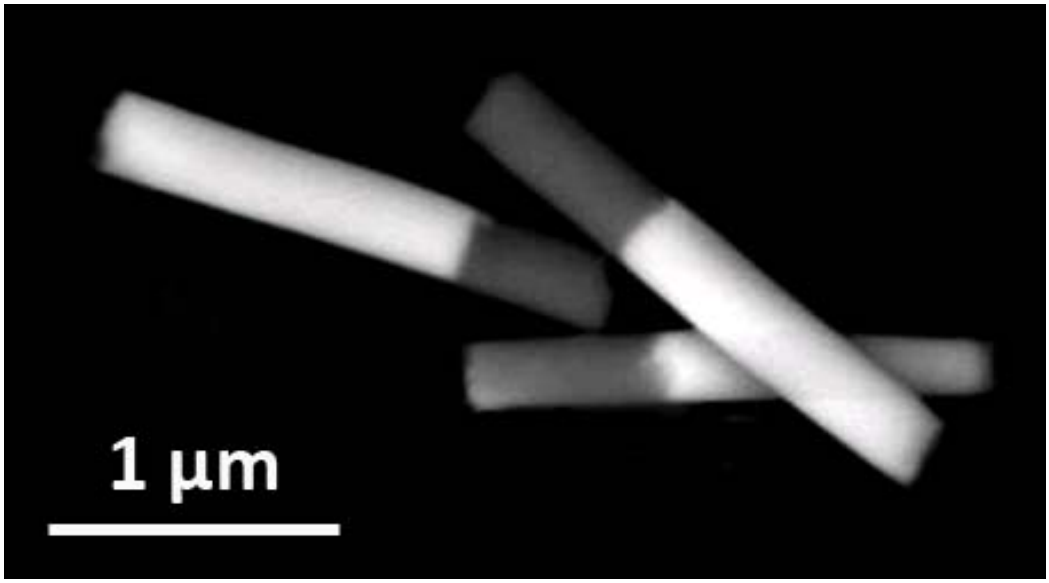
SI Video 1. Movement of Au-Pt, Ag-Pt and Pt-Ag nanowires in 7.5% H_2O_2.

SI Video 2. Movement of Au-free Ag-Pt nanomotors prepared by dissolving the Ag sacrificial layers for different dissolution times in 4 M HNO_3.

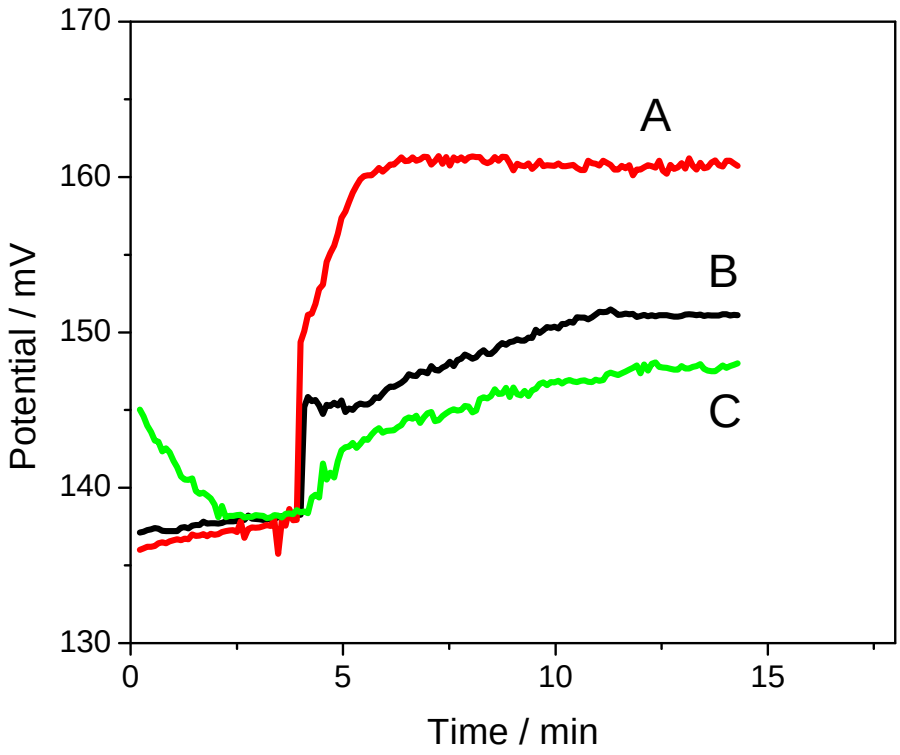
SI Video 3. Movement of Au-free Pt-Ag nanowire motors, with Ag plated with different charges (amount) on top of the Pt segment.

SI Video 4. Magnetically-guided motion control of Au-free Pt-Ni-Pt-Ag nanomotors containing a nickel segment.

SI Video 5. Stability of Au-free Pt-Ag nanomotors in 7.5 % H_2O_2 at different time periods.



SI Figure 1. SEM image of Pt -Ag nanomotors.



SI Figure 2. Potential-time recordings of a Ag ISE, monitoring the 'release' of silver ions from the Ag-Pt nanomotors in the 5% H_2O_2 fuel solution. Ag-Pt nanowires prepared by dissolving the sacrificial Ag layer for A) 10 min, B) 12 min and C) 15 min in a 4 M nitric acid solution.

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