# Fabrication of Core-Shell Ag@pDA@HAp Nanoparticles with Controlled Release Ability of $Ag^+$ and Superior Hemocompatibility

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**Supporting information**

**Fig. S.1.** Particle size distribution graphs of Ag-NPs, Ag@pDA-NPs and Ag@pDA@HAp-NPs of Ag-NPs, Ag@pDA-NPs and Ag@pDA@HAp-NPs.

**Fig. S.2.**Typical XRD patterns of Ag-NPs, Ag@pDA-NPs and Ag@pDA@HAp-NPs

**Fig. S.3.** N1s XPS spectra of Ag@pDA-NPs (a) and Ag@pDA@HAp-NPs (b), Ag3d XPS spectra of Ag@pDA-NPs and Ag@pDA@HAp-NPs (c), Ca2p XPS spectra of Ag@pDA@HAp-NPs (d), and P2p XPS spectra of Ag@pDA@HAp-NPs (e).

**Table S.1:** The sizes of bacterial growth inhibition zones against S. aureus and E. coli

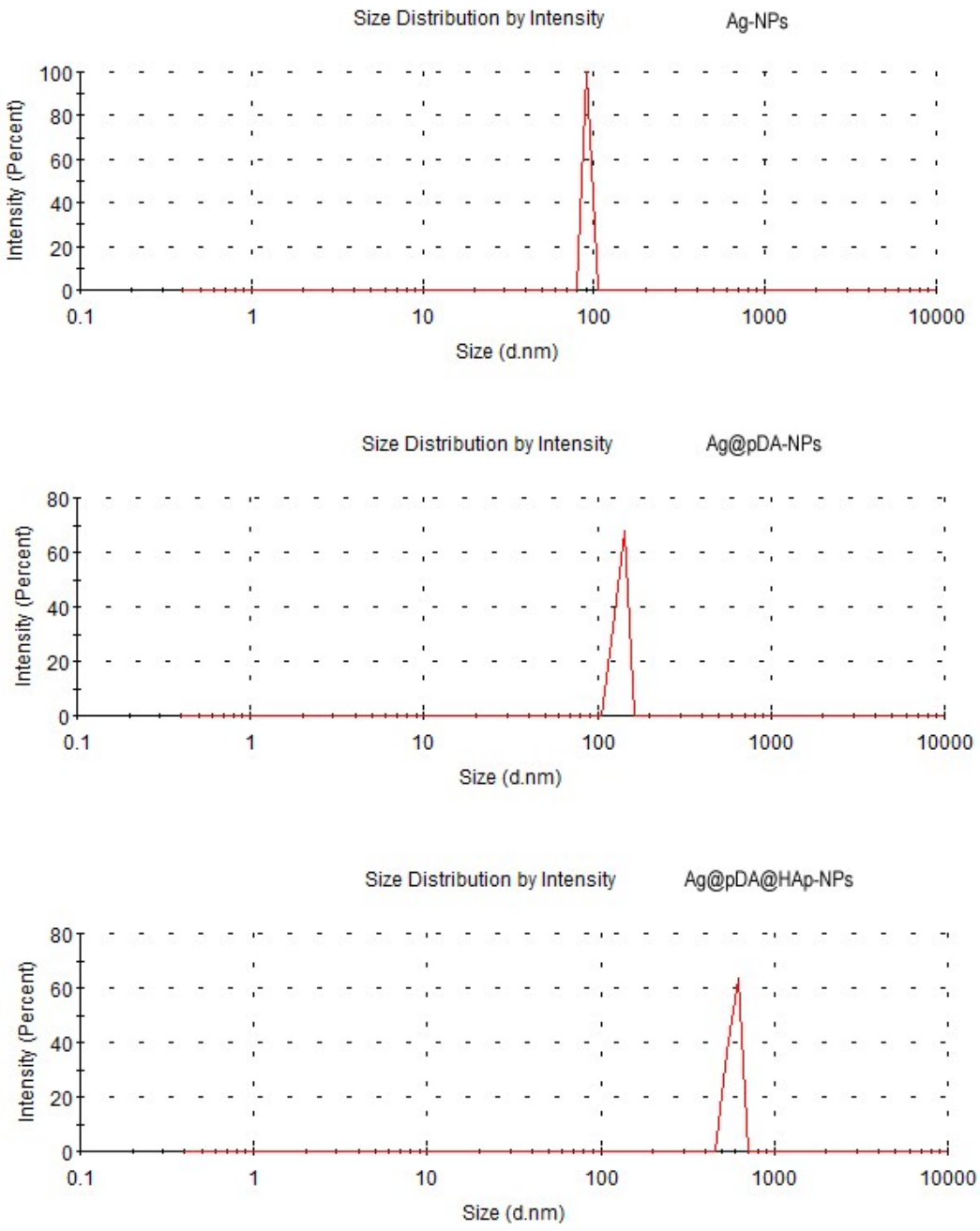


Fig. S.1. Particle size distribution graphs of Ag-NPs, Ag@pDA-NPs and Ag@pDA@HAp-NPs.

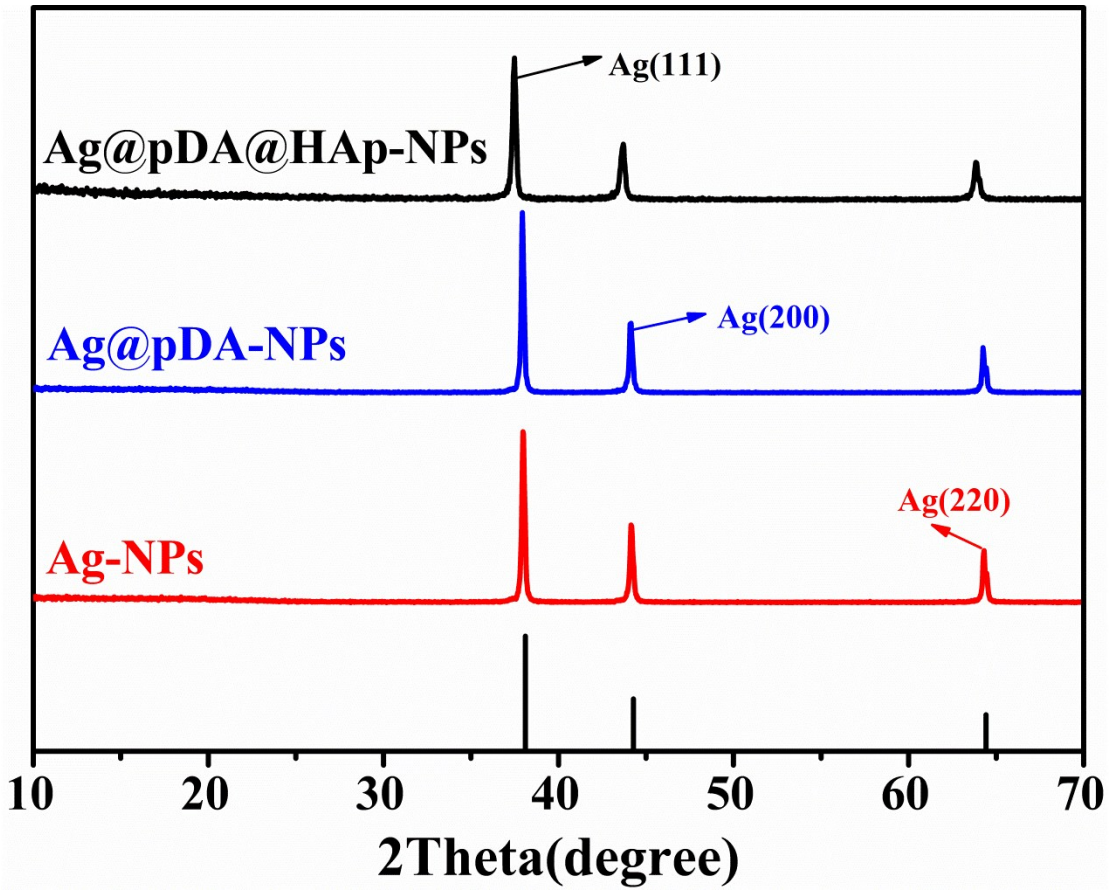


Fig. S.2. Typical XRD patterns of Ag-NPs, Ag@pDA-NPs and Ag@pDA@HAp-NPs

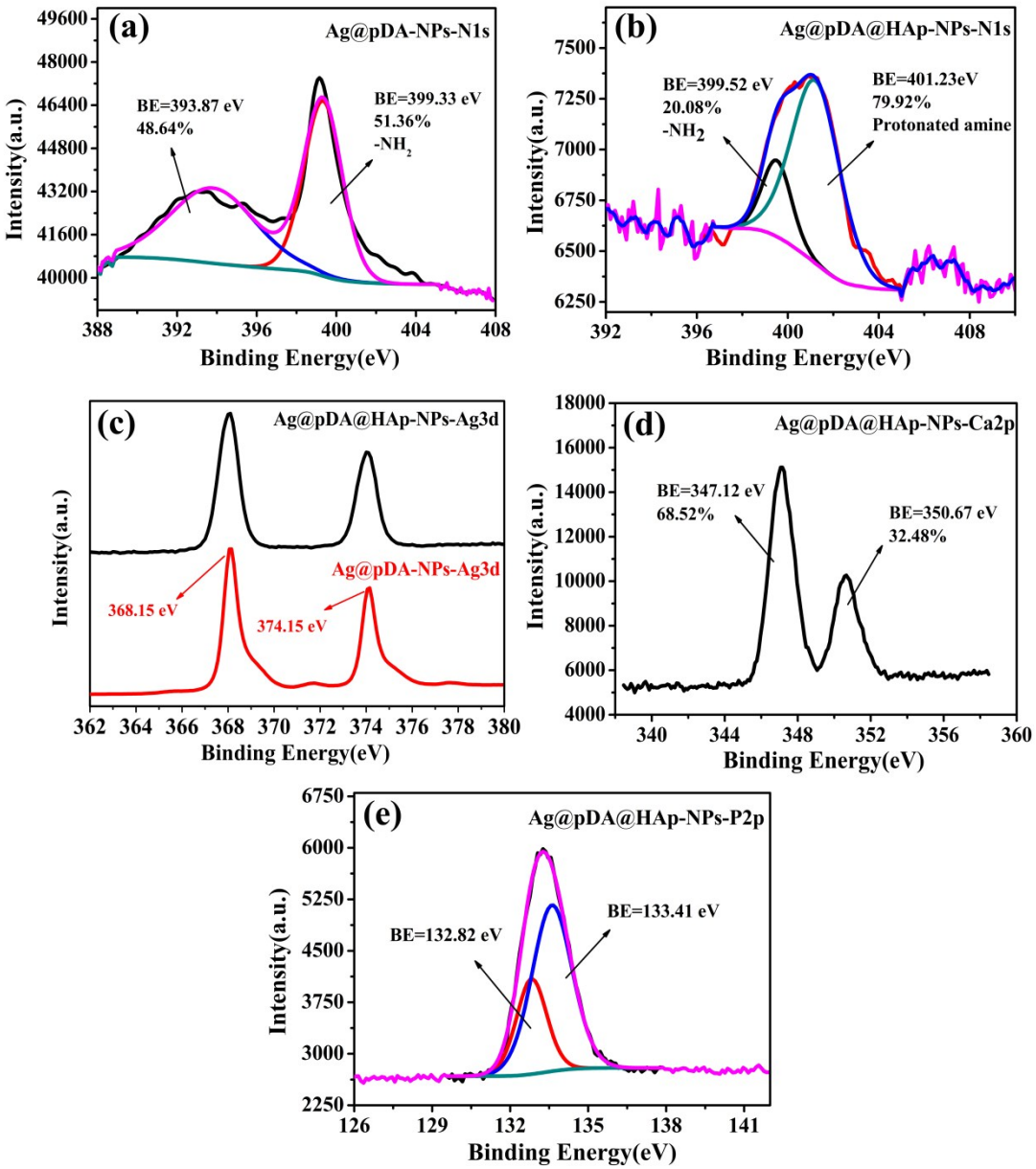


**Fig. S.3.** N1s XPS spectra of Ag@pDA-NPs (a) and Ag@pDA@HAp-NPs (b), Ag3d XPS spectra of Ag@pDA-NPs and Ag@pDA@HAp-NPs (c), Ca2p XPS spectra of Ag@pDA@HAp-NPs (d), and P2p XPS spectra of Ag@pDA@HAp-NPs (e).

**Table S.1:** The sizes of bacterial growth inhibition zones against S. aureus and E. coli

| Samples name | Size against S. aureus (mean ± SD) (mm) | Size against E. coli (mean ± SD) (mm) |
|---|---|---|
| HAp-NPs | 0 | 0 |
| Ag-NPs | 3.14 ± 0.04 | 3.22 ± 0.09 |
| Ag@pDA@HAp-NPs | 1.42 ± 0.03 | 1.05 ± 0.09 |