**Supplementary material**

**Article title**

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*a.*

*b.*

Table S1 Diameter of synthesised AgNPs with different [AgNO3] measured with Zetasizer

|  |  |  |
| --- | --- | --- |
| [AgNO3] (g/mL) | AgNP diameter (nm) | SD (nm) |
| 0.10 | 16.9 | 5.3 |
| 0.20 | 18.4 | 4.8 |
| 0.30 | 20.4 | 4.4 |
| 0.50 | 24.2 | 6.5 |

Table S2 Zeta potential of synthesised AgNPs with different [AgNO3]

|  |  |  |  |
| --- | --- | --- | --- |
| [AgNO3] (g/mL) | Zeta Potential (mV) | SD (mV) | Number of samples measured |
| 0.10 | −48.1 | 1.1 | 9 |
| 0.20 | −6.1 | 3.3 | 13 |
| 0.30 | −45.8 | 1.2 | 15 |
| 0.50 | −50.6 | 2.2 | 6 |



Figure S1 DTG curve of solid AgNPs (inner figure is the DTG curve from 40-900 oC).

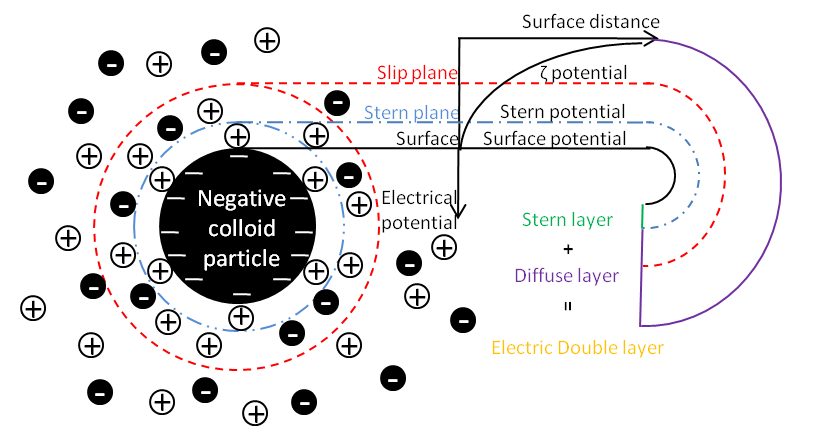


Figure S2 Schematic diagram of (a) electric double layer and (b) *dH* measured by DLS and *dS* measured by TEM for the AgNPs.

