

## Supporting Information

### Nanostructured silver decorated hollow silica and their application in treatment of microbial contaminated water at room temperature

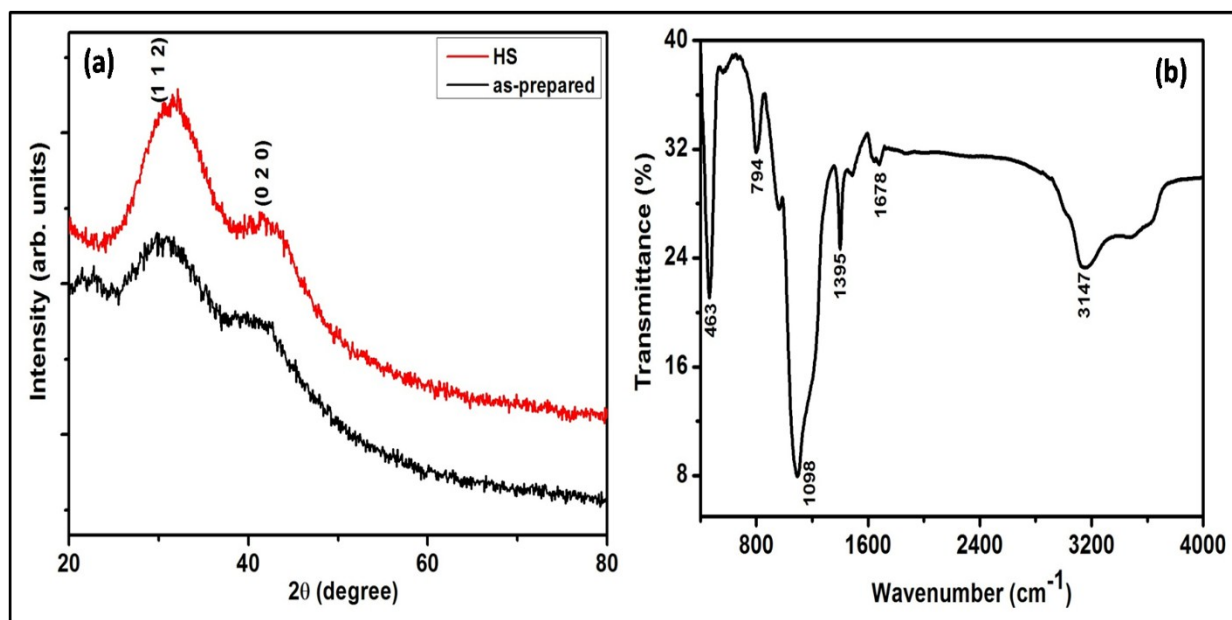


Figure S1: (a) XRD pattern of as-prepared and calcined hollow silica and (b) FTIR spectrum of calcined hollow silica.

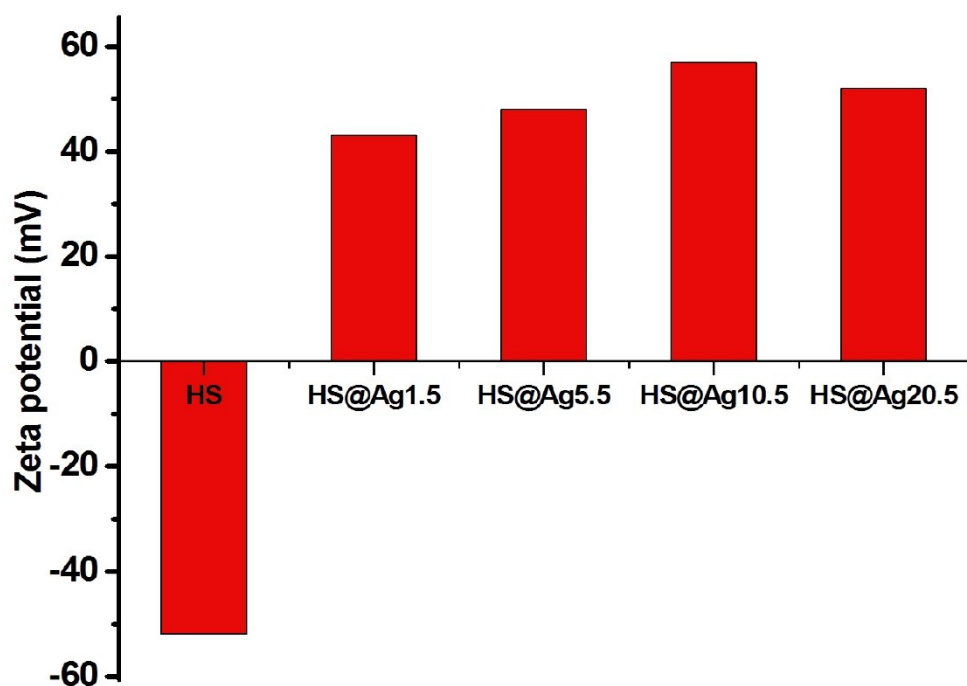


Fig. S2: Zeta potential measurements of synthesized hollow silica and silver decorated hollow silica samples.

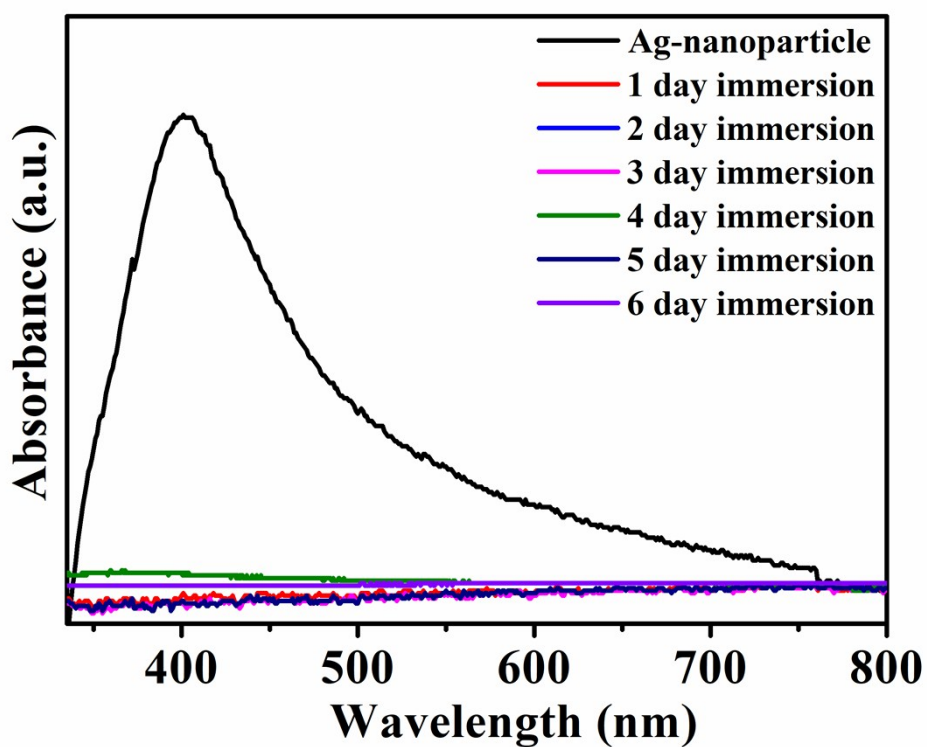


Figure S3: UV spectra for release of silver nanoparticle in water as function of time

**Table S1: Silica and Silver release test of HS@Ag5.5**

<b>Element</b>	<b>day0</b>	<b>day1</b>	<b>day2</b>	<b>day3</b>	<b>day4</b>	<b>day5</b>	<b>day6</b>
<b>Silica (ppm)</b>	1.03	1.09	1.98	2.07	2.72	3.13	3.20
<b>Silver (ppm)</b>	0.20	0.21	0.21	0.29	0.21	0.20	0.20