

Electronic Supplementary Information

Mesoporous silica microcapsule-supported Ag nanoparticles fabricated via nano-assembly and its antibacterial properties

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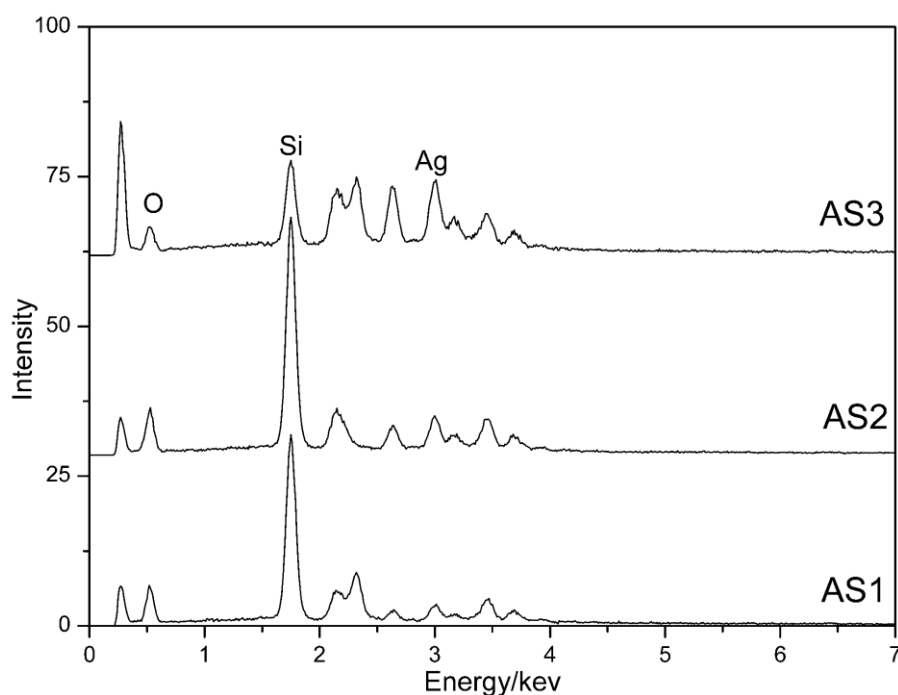


Fig.S1 Patterns of EDS element analysis of AgNPs@silica microcapsule with different concentration of AgNO₃ in sample AS1, AS2, AS3.

Table S1 Mass concentration and atomic percent of O, Si, Ag elements in different samples of AgNPs@silica microcapsule (AS1-AS3) with diverse AgNO₃ concentration measured by EDS, and their antibacterial rate on E.coli.

	AS1	AS2	AS3
C _{AgNO₃} (mol/L)	0.05	0.075	0.1
O K (Wt%)	40.38	37.01	33.25
Si K (Wt%)	45.95	42.64	22.07
Ag L (Wt%)	13.67	20.34	44.67
O K (At%)	58.88	57.54	63.40
Si K (At%)	38.16	37.77	23.97
Ag L (At%)	2.96	04.69	12.63
Antibacterial rate on E.coli	94.38%	99.8%	99.95%