

Electronic Supplementary Information (ESI)

Controllable fabrication of multifunctional 1D Ag-based coordination polymer@PVP nanowires

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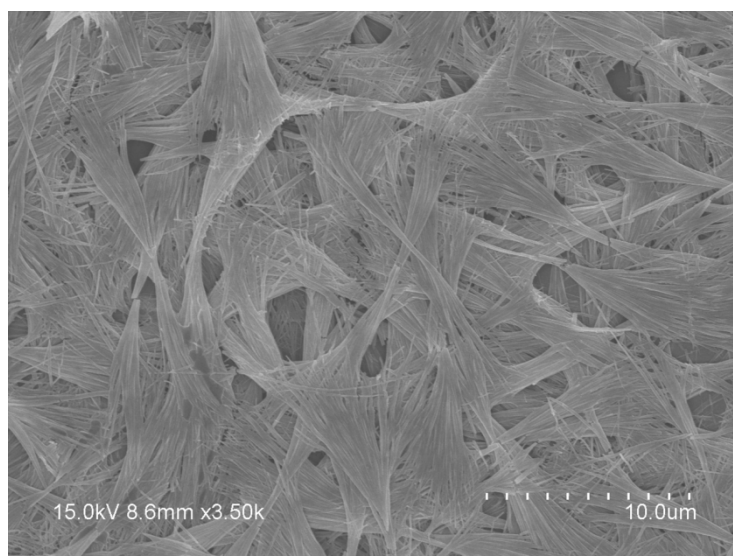


Fig. S1 SEM image of wires-like product obtained in pure water system.

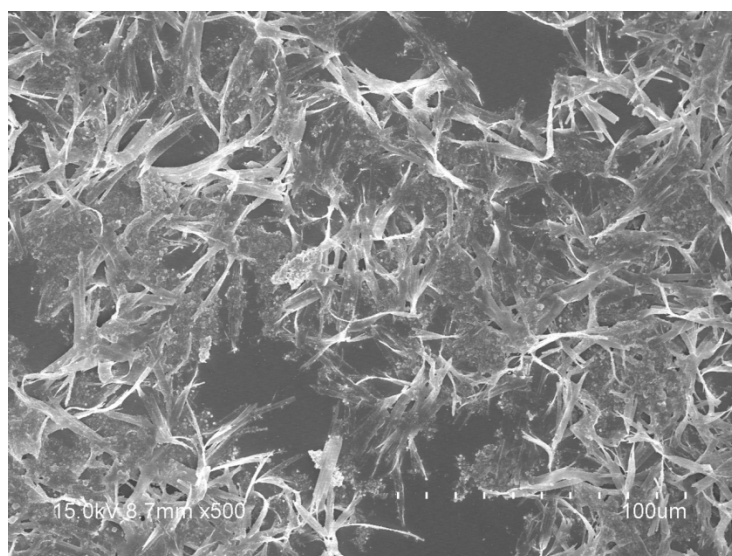


Fig. S2 SEM image of belts-like product generated in the presence of SDS (0.1 g).

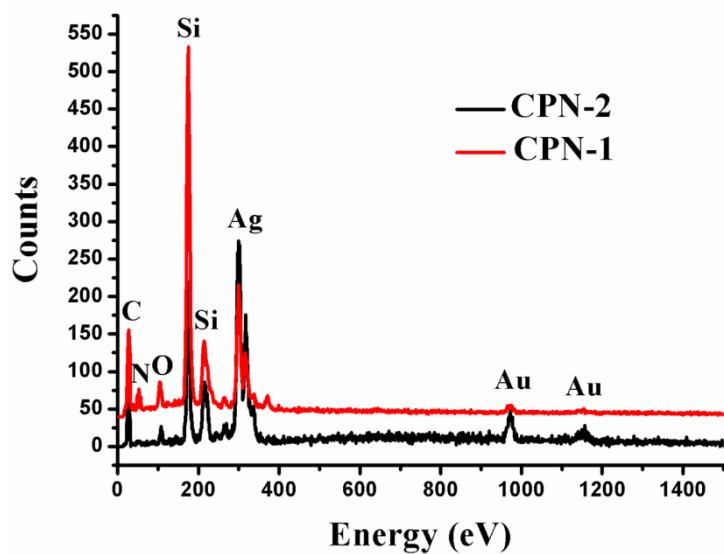


Fig. S3 EDX spectra of as-synthesized CPN-1 and CPN-2.

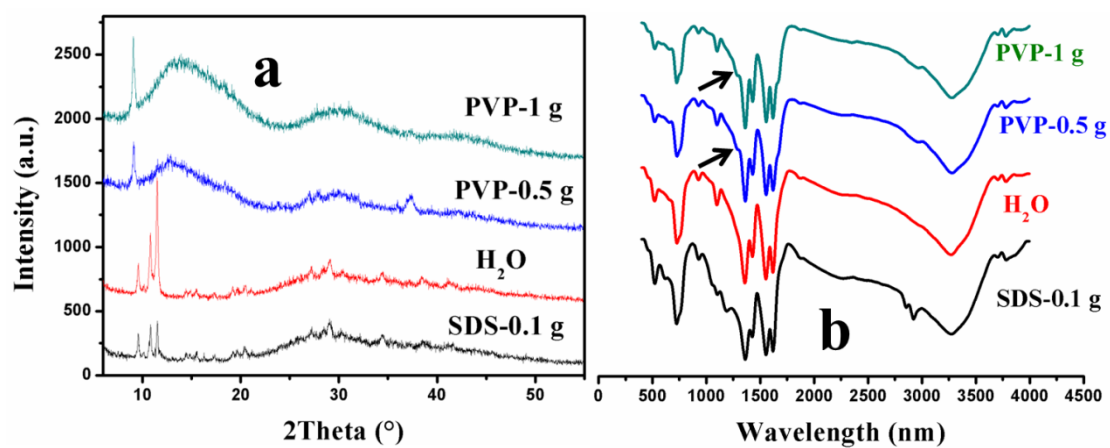


Fig. S4 (a) XRD patterns of as-synthesized coordination polymer products by adjusting the synthetic parameters. (b) IR spectra of as-obtained coordination polymer products by adjusting the synthetic parameters (the arrow points at 1288 cm^{-1})

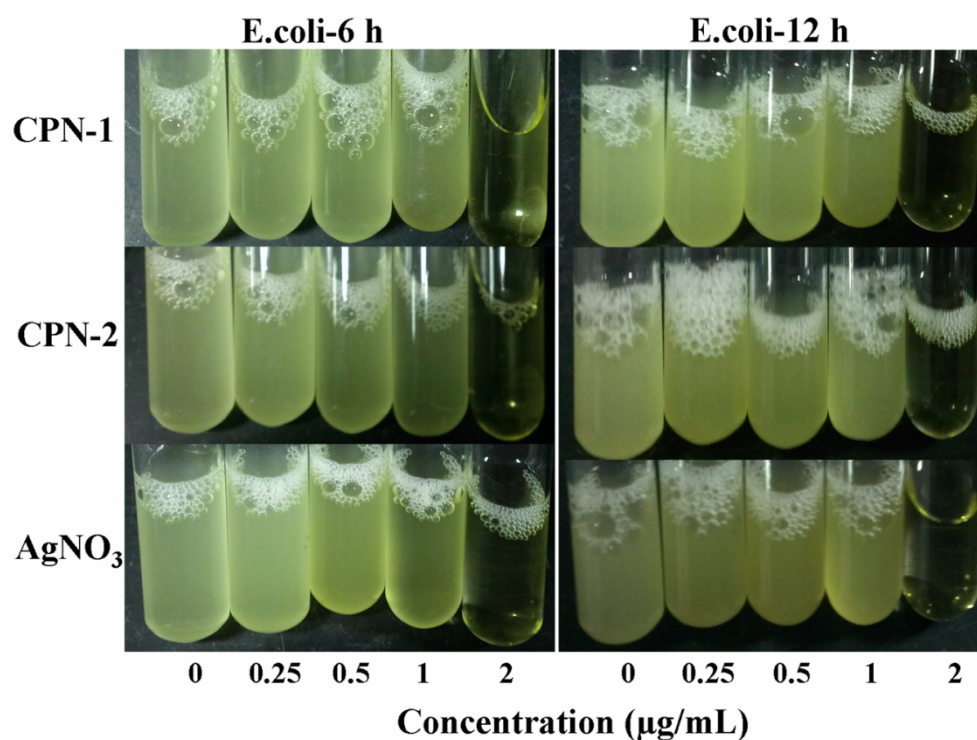


Fig. S5 The photographs of antibacterial activities against *E. coli* of as-synthesized samples and compared AgNO₃.

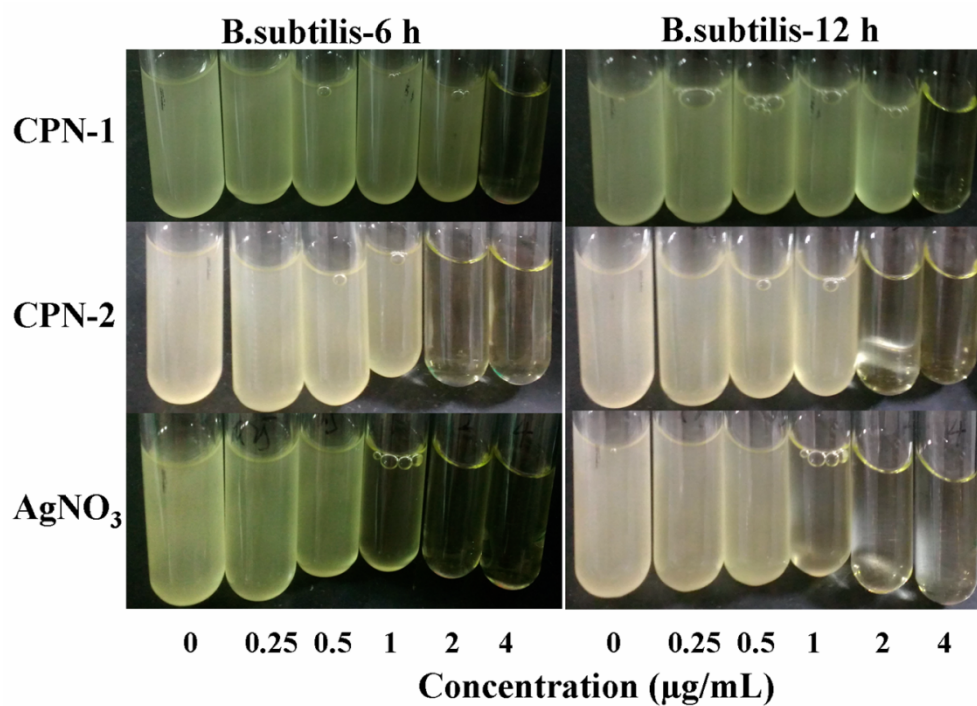


Fig. S6 The photographs of antibacterial activities against *B. subtilis* of as-synthesized samples and compared AgNO₃.

Table S1 Elemental analyses of as-obtained coordination polymer samples using different synthetic procedures.

Sample	C%	H%	N%
SDS-0.1 g	17.37	1.936	0.11
H ₂ O	19.31	3.048	1.10
PVP-0.5 g	20.50	3.187	1.73
PVP-1 g	21.46	3.546	2.78