Supplementary Information (SI) for RSC Advances.

Armored Polymyxin B: A Nanosystem for Combating Multidrug-Resistant Gram-Negative Bacteria

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1. Supplementary Figures

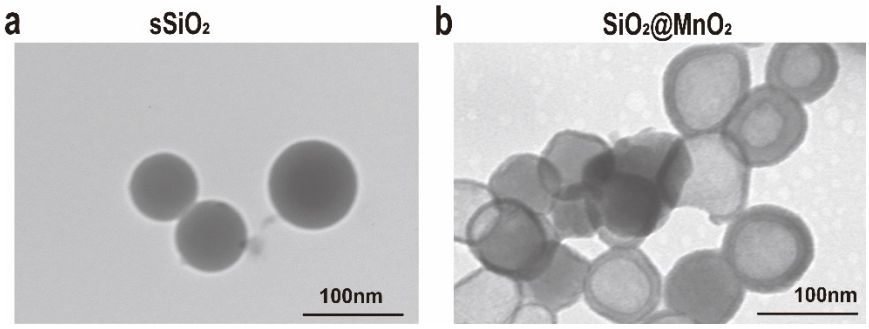

Fig. S1. TEM images of $sSiO_2$(a) and $SiO_2@MnO_2$(b). Scale bar: 100 nm.

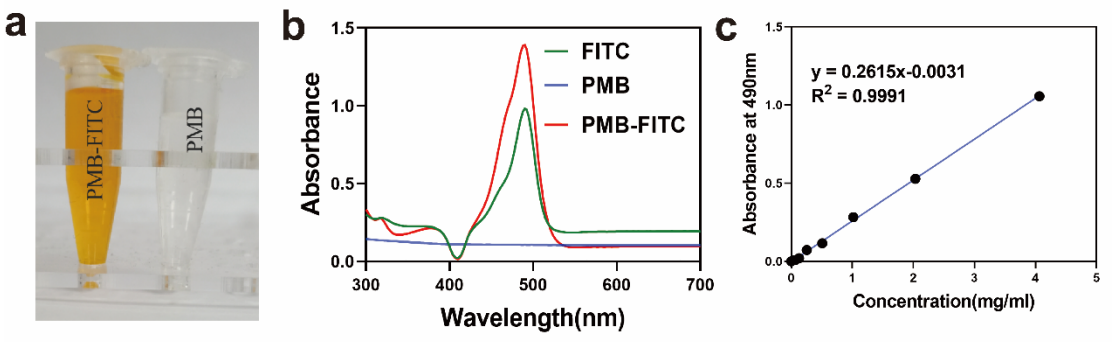

Fig. S2. (a) Photograph of PMB and PMB-FITC in water. (b) UV-vis absorption of FITC,PMB and PMB-FITC. (c) standard curve of PMB-FITC with different concentrations.

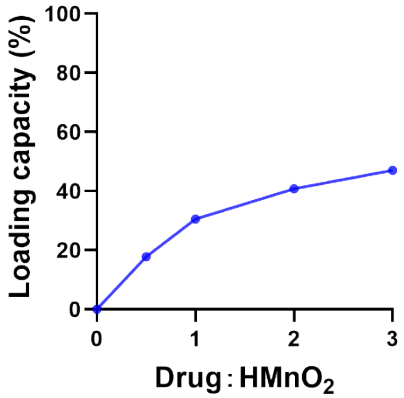

Fig. S3. PMB loading capacity of $HMnO_2$ at various ratios of drug: $HMnO_2$. Data are presented as the mean ± SD (n = 3).

2. Supplementary Table

Table S1. The drug sensitivity of *Pseudomonas aeruginosa*

Antibiotics	MIC (μg mL^{-1})	Sensitivity
Levofloxacin	>=8	R
Ciprofloxacin	1	S
polymyxin	1	I
Tobramycin	<=1	S
Amikacin	>=64	R
Meropenem	<=0.25	S
Imipenem	1	S
Aztreonam	4	S
Cefepime	>=16	R
Ceftazidime	>=16	R
Piperacillin/tazobactam	>=16	R
Doxycycline	>=64	R
Cefoperazone/Sulbactam	>=8	R
Ticarcillin/clavulanate	32	I

Note.S：Sensitive, I：Intermediate, R：Resistant.