

Supporting information

Novel heparin-loaded mesoporous tubular micromotors based on template-assisted electrochemical deposition

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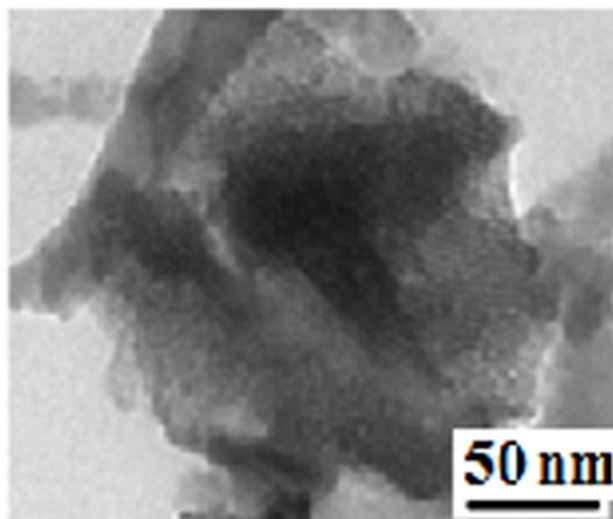


Fig. S1. TEM images of the PEDOT/MS/MnO₂ with calcination treatment.

Table S1. Characteristics of the Drug Release Kinetics.

Release parameter	Korsmeyer-Peppas			First-order	
	a	b	R ²	-K ₁	R ²
PEDOT/MS/MnO ₂ -Hep	5.156	0.1899	0.9187	-0.5795	0.9625
PEDOT/MS-Hep	5.193	0.2603	0.9857	-0.6705	0.9956

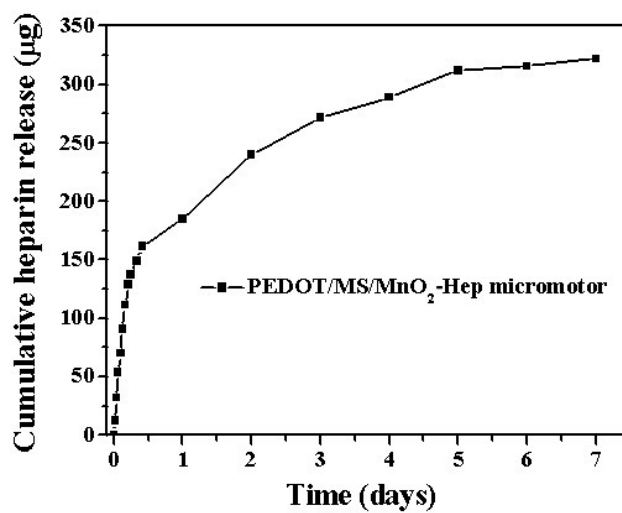


Fig. S2. Hep release profile of the PEDOT/MS/MnO₂-Hep micromotors in PBS (with 0.1% H₂O₂) at 37°C.

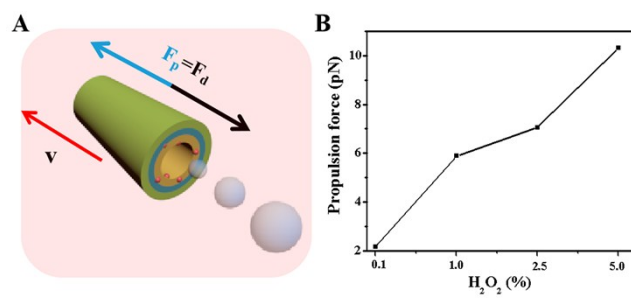


Fig. S3. (A) Force analysis and (B) propulsion force of the PEDOT/MS/MnO₂ micromotors calculated by equation, based on the speed value in Fig. 9A.