Electronic Supplementary Information (ESI)

One Step Fabrication of Multifunctional Micromotors

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Video S1. An individual micromotor moves autonomously in circles in 5% H₂O₂ aqueous solution.

Video S2. The autonomous movement of a micromotor in PBS solution containing 5% H₂O₂.

Video S3. The movement of one micromotor under the influence of an external magnetic field in 5% H₂O₂ aqueous solution.

Video S4. Cargo transportation using the micromotor under an external magnetic field in 5% H₂O₂ aqueous solution.
**Fig. S1** Size distribution histogram of the microsphere shown in the Fig. 1B, which has an average diameter of approximately 18 μm.

**Fig. S2** Optical microscopic image of the microstructures fabricated at PCL concentration of 30 mg/ml, while the other fabrication conditions remain the same.
**Fig. S3** (A) SEM image of the microstructure obtained at 3 mg/ml PCL solution. The corresponding energy dispersive x-ray analysis of the Janus structure shown in (A) for (B) carbon, (C) oxygen and (D) platinum.