

Self-Propelled Micromotors Based on Au-Mesoporous Silica Nanorods

Ying-Shuai Wang^a, Hong Xia*^a, Chao Lv^a, Lei Wang^a, Wen-Fei

Dong^a, Jing Feng^a, and Hong-Bo Sun*^{a, b}

^a State Key Laboratory on Integrated Optoelectronics, College of Electronic Science and Engineering, Jilin University, 2699 Qianjin Street, Changchun 130012, P.R.China. E-mail: hxia@jlu.edu.cn (H. Xia) and hbsun@jlu.edu.cn (H.-B.S.).

^b College of Physics, Jilin University, 119 Jie fang Road, Changchun 130023, P.R.China.

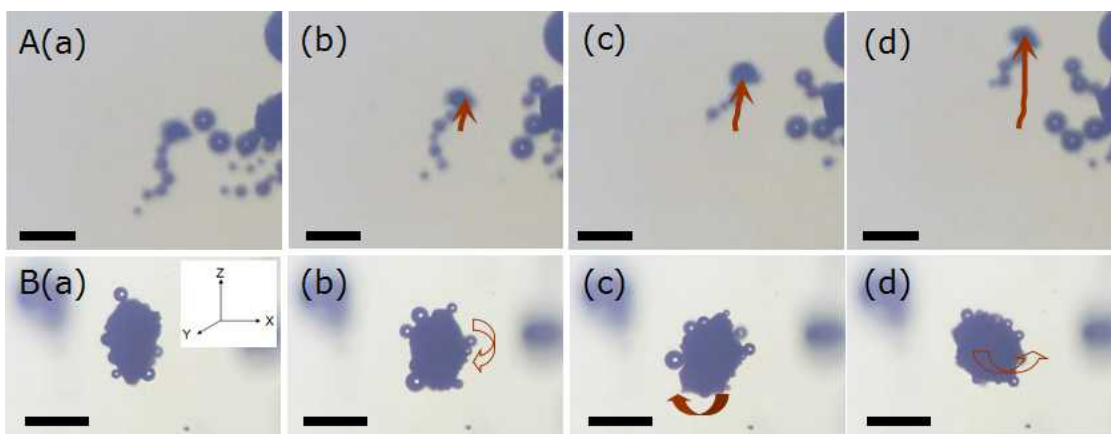


Fig. S1 Different forms of motion of Bubble-Propelled Au catalytic Micromotors in H_2O_2 solution (20%). The forward motion (A) and (B) Rolling. Solid line for Pxoy movement, hollow for Pyoz movement. Scale bar: 100um

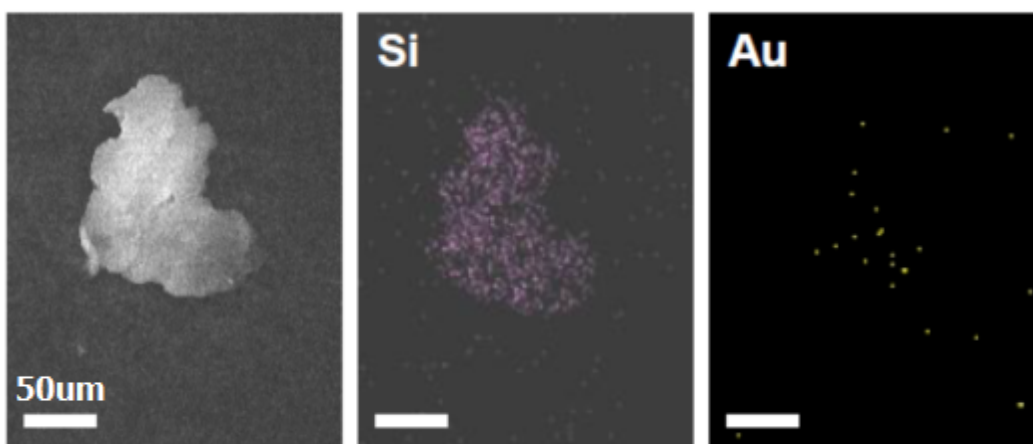


Fig. S2 The scanning electron microscopy (SEM) image and EDX elemental mapping results of bubble-Propelled Au-SiO₂ micromotors

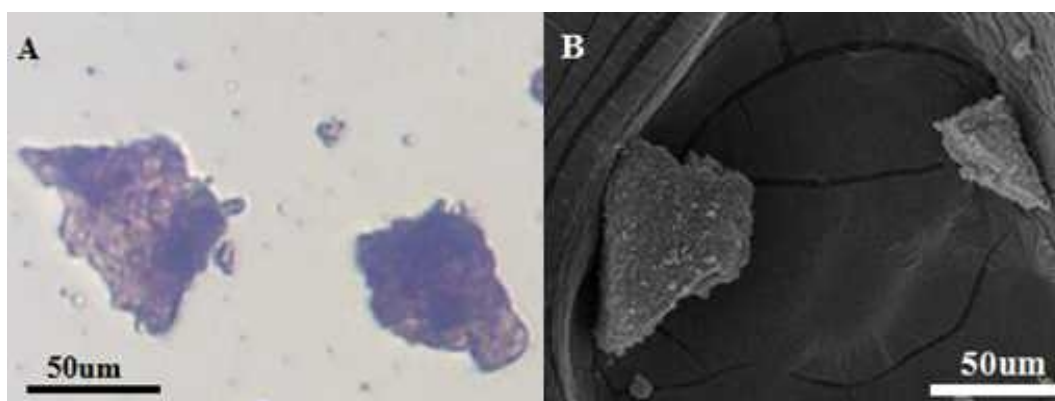


Fig. S3 The optical microscope (A) and (B) scanning electron microscopy (SEM) image of bubble-Propelled Au-SiO₂ micromotors