Versatile microrobotics using simple modular subunits

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Supplementary Movie Legends

Movie S1: Assembly and disassembly for modular microrobotics. The movie shows the use of magnetohydrodynamics for assembly and disassembly.

Movie S2: Magnetic module orbit microswimmer. The movie shows how a module will orbit the microswimmer if assembly is unsuccessful.

Movie S3: Demonstration of modular microrobot. The movie shows a microswimmer transform from three-bead to nine beads, then breaks into two different microswimmers.

Movie S4: Swimming of a 10-bead microswimmer. The movie shows increase in swimming speed of a 10-bead microswimmer as the rotation frequency increased from 1 to 6 Hz.