Supporting Information

Seawater-Driven Magnesium based Janus Micromotors for Environmental Remediation

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Supporting videos description

SI Video 1. Seawater-driven magnetically-guided Mg-based micromotor.

SI Video 2. Control experiments using Mg, Mg/Ti, Mg/Ti/Ag and Mg/Ti/Au microparticles in sea water.

SI Video 3. Anion effect upon the movement of Mg/Ti/Au micromotors using pure water, 0.5 M NaNO₃ solution, 0.5 M Na₂SO₄ solution and 0.5 M NaCl solutions.

SI Video 4. Dependence of the autonomous motion performance of the new Mg-based Janus micromotors upon the chloride ion concentrations in the aqueous media.

SI Video 5. A seawater driven alkanethiol-modified Mg micromotor approaches, captures and transports the oil droplet in seawater.

SI Video 6. The interaction of micromotors without the hydrophobic coating and the oil droplet.