

Theory of Catalytic Micro- and Nanoengines: From Self-Propulsion Mechanisms to Remediation of Polluted Water

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A review is given of the theoretical ideas concerning the propulsion mechanisms of the catalytic micro- and nanoengines, which are prospective in robotics, biomedical engineering and environmental sustainability. Enhanced degradation of organic pollutants in water at small-scale environments underlies an important potential application of catalytic microengines.

Keywords– catalytic micro- and nanoengines, self-propulsion mechanisms, degradation of organic pollutants.

