

Robotic Submerged Microhandling Controlled by pH switching

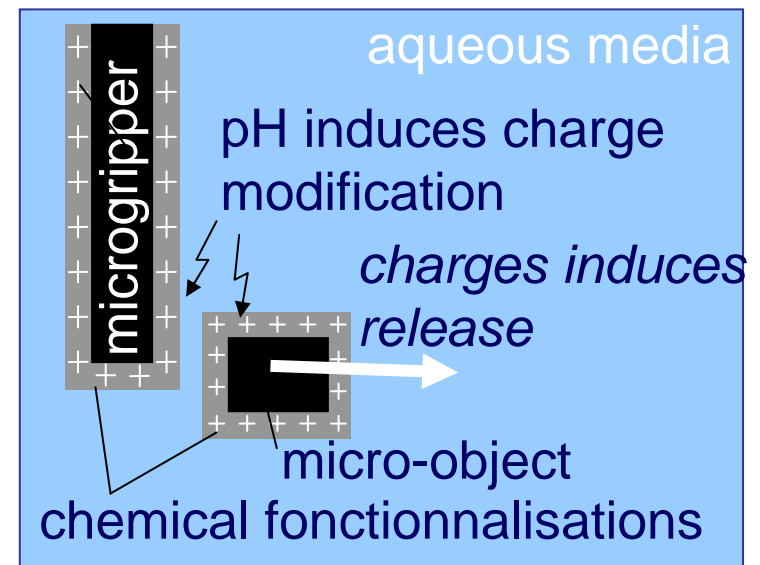
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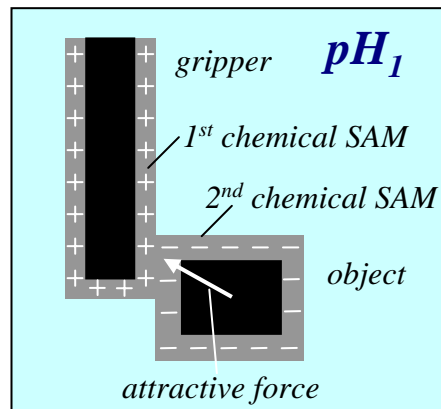
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- Method to control the grasping and the release of micro-object using the pH of the media.
- Chemical fonctionnalisations to obtain switching surface in function of the pH
- Interaction force measurement and electrostatic modeling of the force interaction
- First experiments on active release of micro-objects



Principe of the microhandling
controlled by pH switching

*modification of the
charge density*



(a) handling in pH_1 where charges in SAM induces electrostatic attractive force

