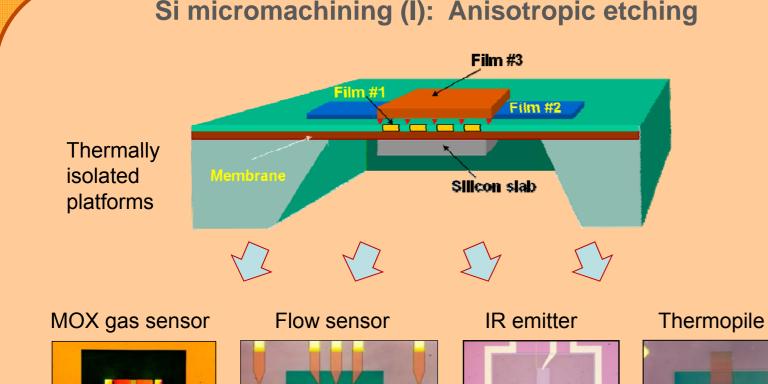
GAS and LIQUID MICRODEVICES AND SYSTEMS

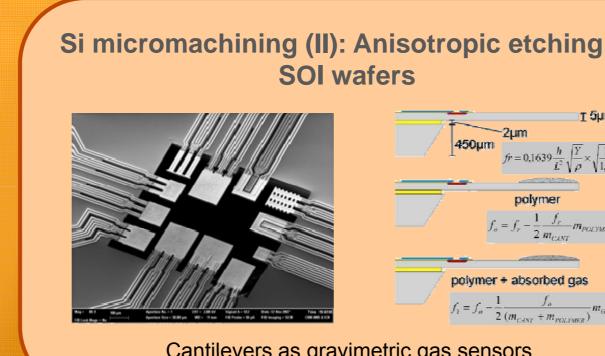
This research line deals with the adaptation of *microtechnologies* for the development of *microdevices* based on *microstructures* with an architecture that confers them an added value from a functionality point of view (free-standing resonant structures, thermally isolated platforms, three-dimensional topology...) and the synthesis of sensitive *materials* to be integrated in those microstructures.

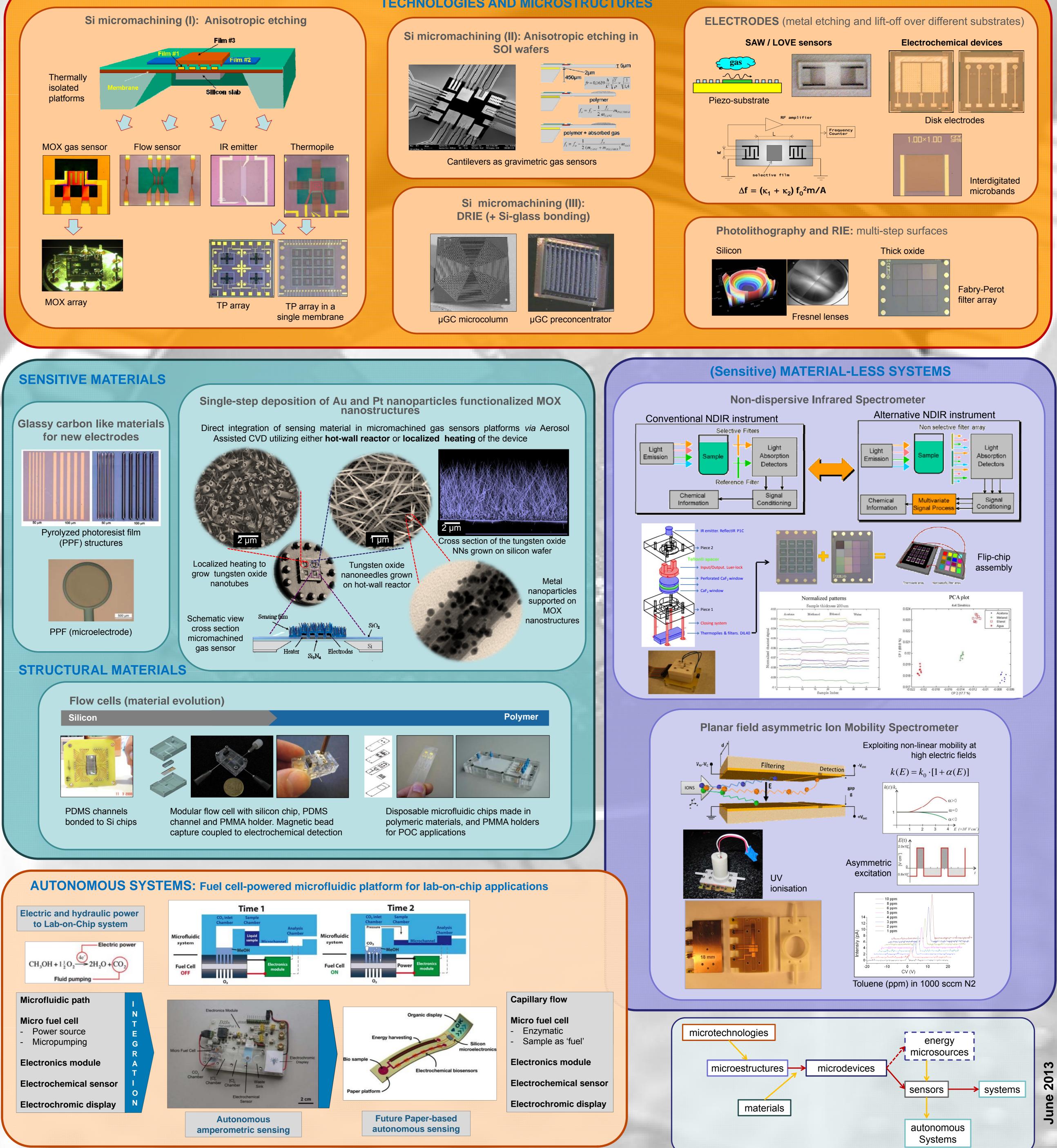
These devices enable identifying gases and/or liquids attending to physical, chemical or electrochemical parameters. For this purpose, single sensors (MOX sensors, SAW sensors, microcantilevers, microelectrodes), arrays of the same, and more complex systems (NDIR and IMS microspectrometers, micro chromatographs) built from different microcomponents can be developed.

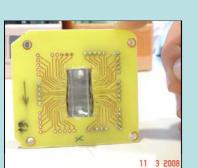
Another aim is the microintegration of some of those microdevices with microenergy sources to develop autonomous systems.

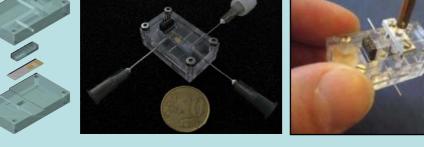


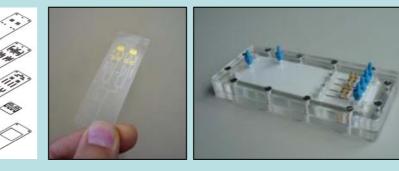
TECHNOLOGIES AND MICROSTRUCTURES

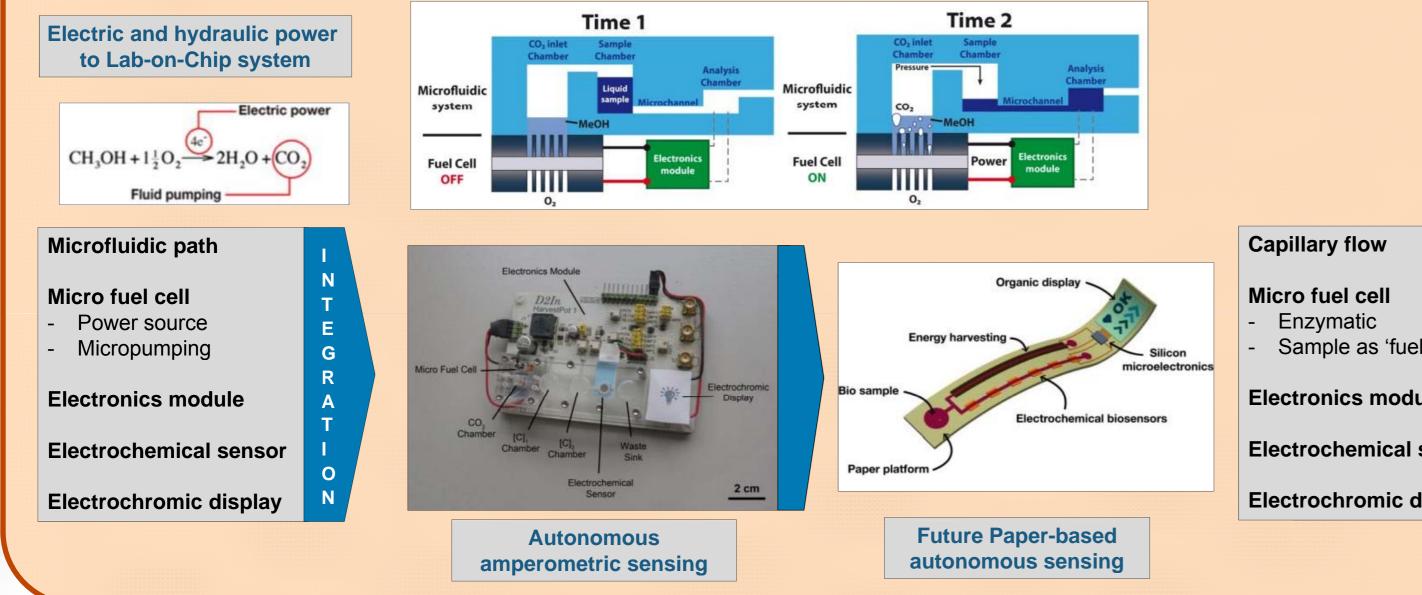














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