



Projects at the EPFL Center of MicroNanoTechnology

DOD INKJET PRINTING OF FUNCTIONAL POLYMERS

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Project objective:

Inkjet printing techniques have gained a lot of attention for the micro-structuring of functional materials. This is due to their low cost, low material consumption and relatively easy fabrication process.

In this project, Drop-on-Demand (DOD) inkjet printing is used as a means of depositing gas-sensitive polymer nanocomposites on interdigitated electrodes. Different shapes and patterns (e.g. lines and films) can be printed by controlling the coalescence of the neighboring droplets. The final topography of the printed structure depends strongly on parameters such as ink formulation, surface properties of the substrate as well as printing parameters.

