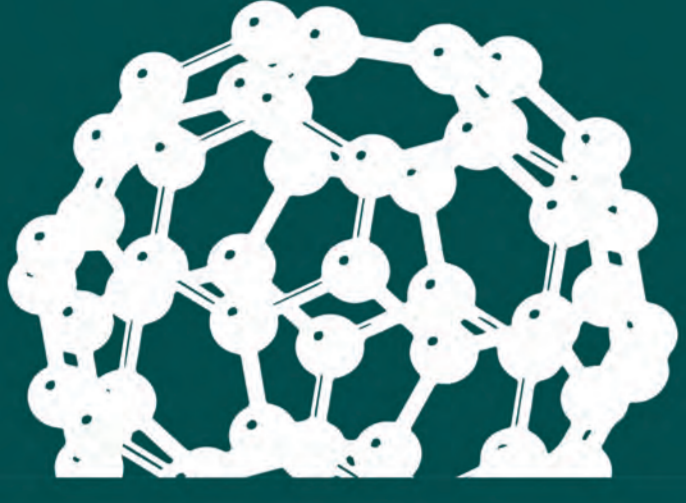





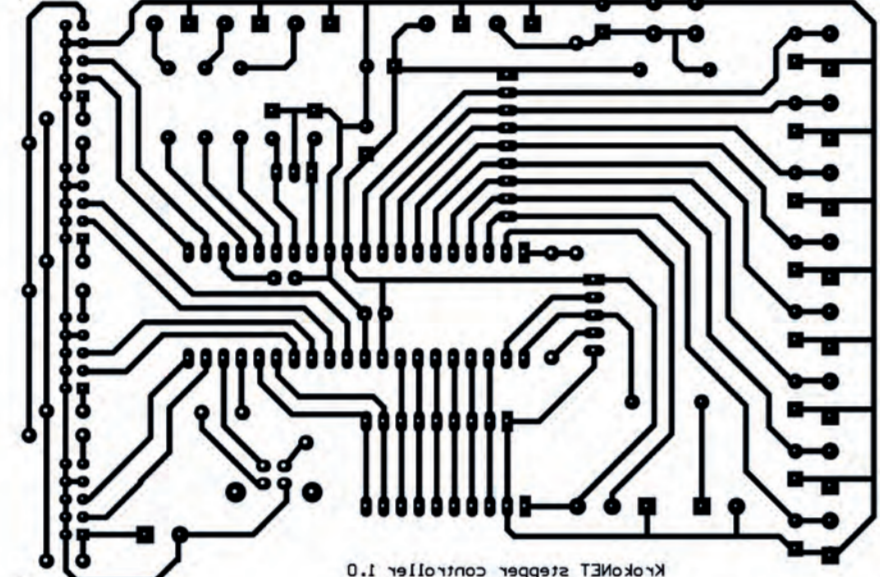





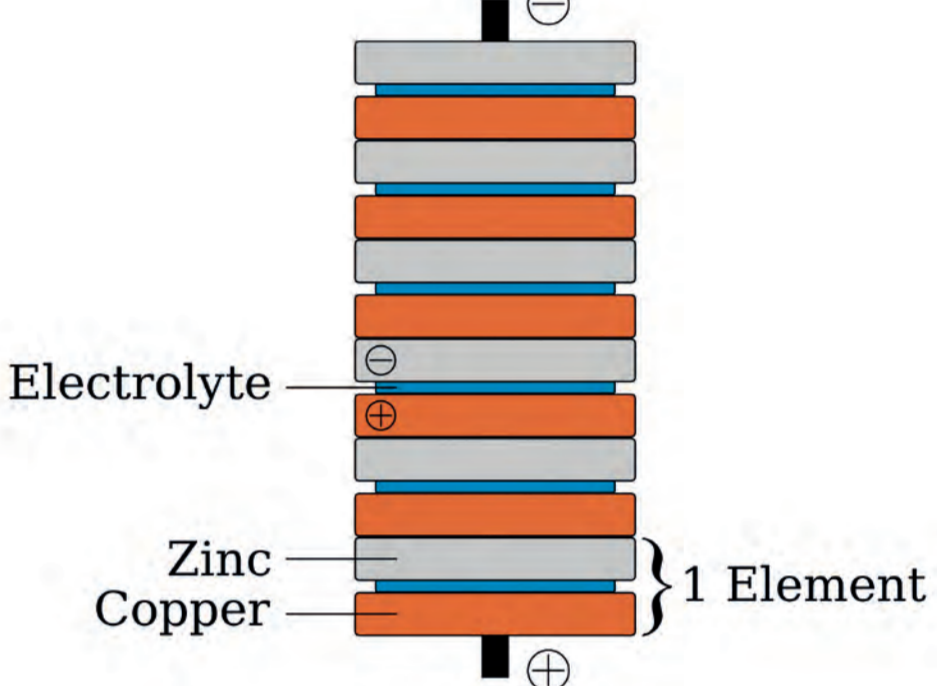

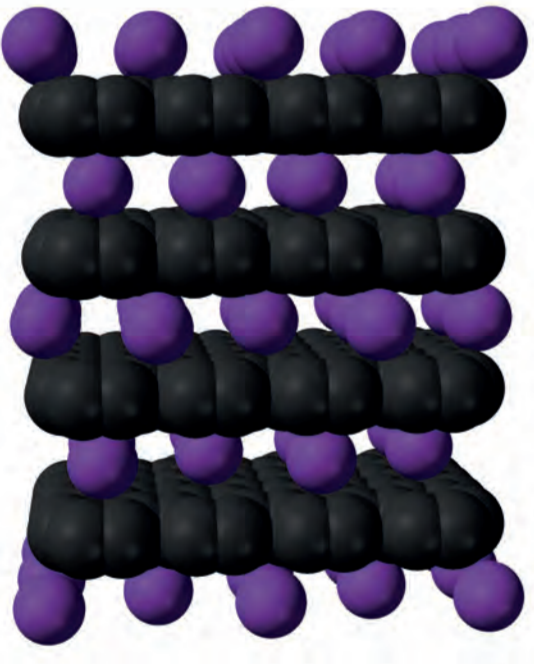

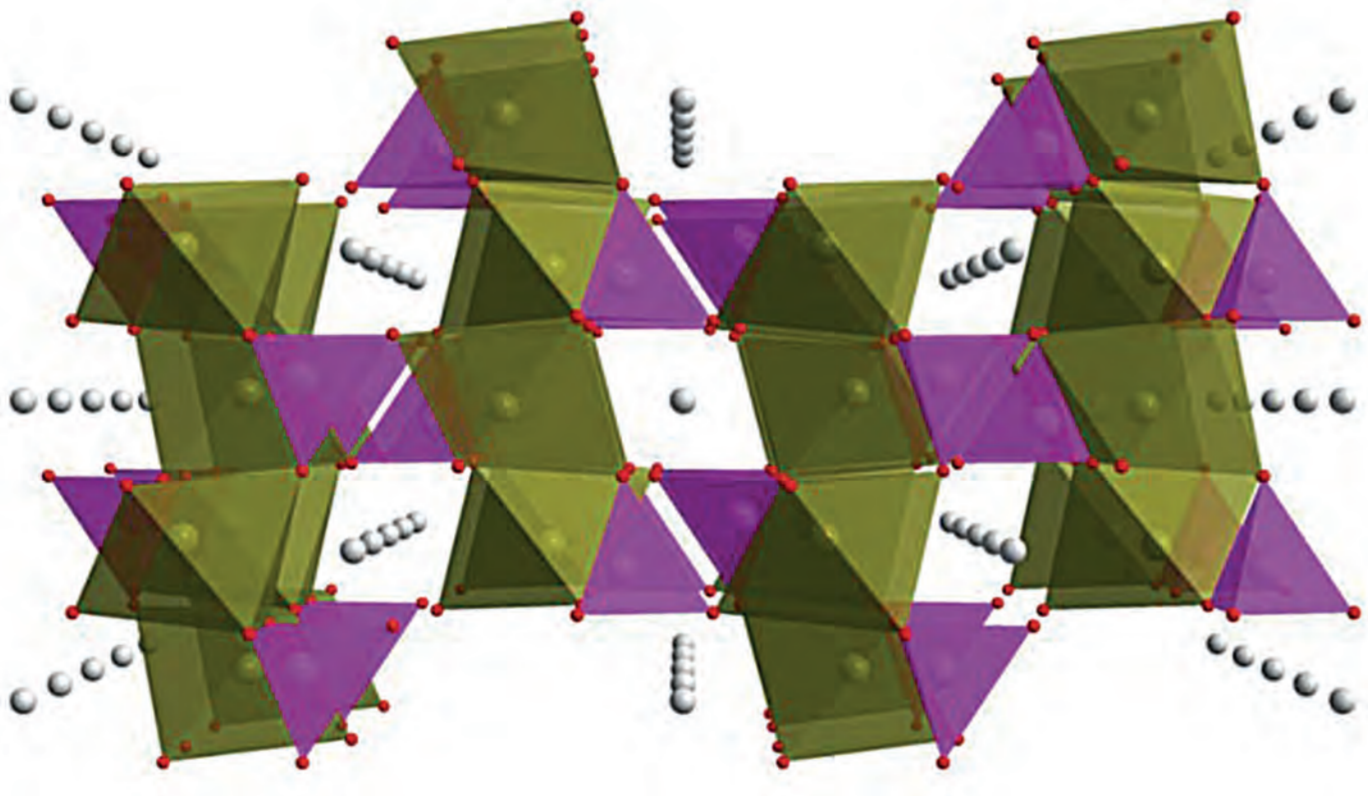

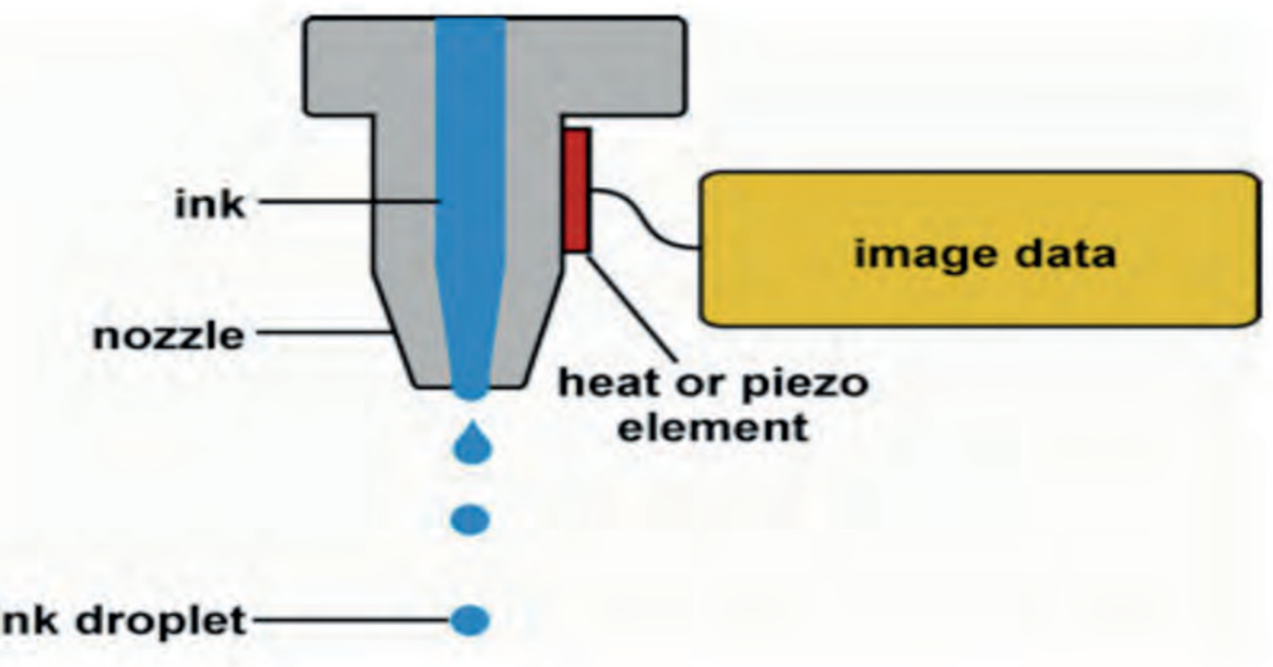

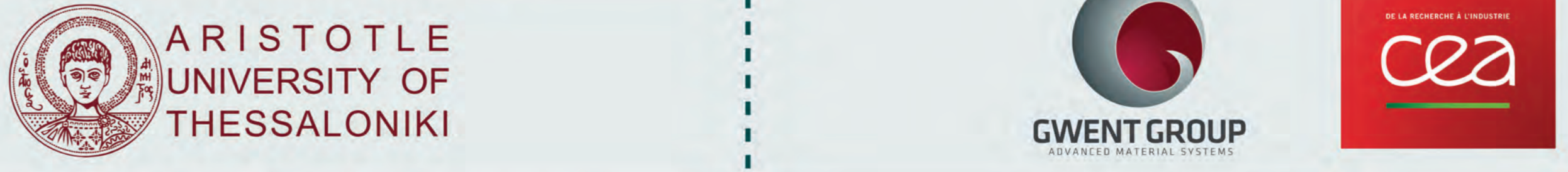


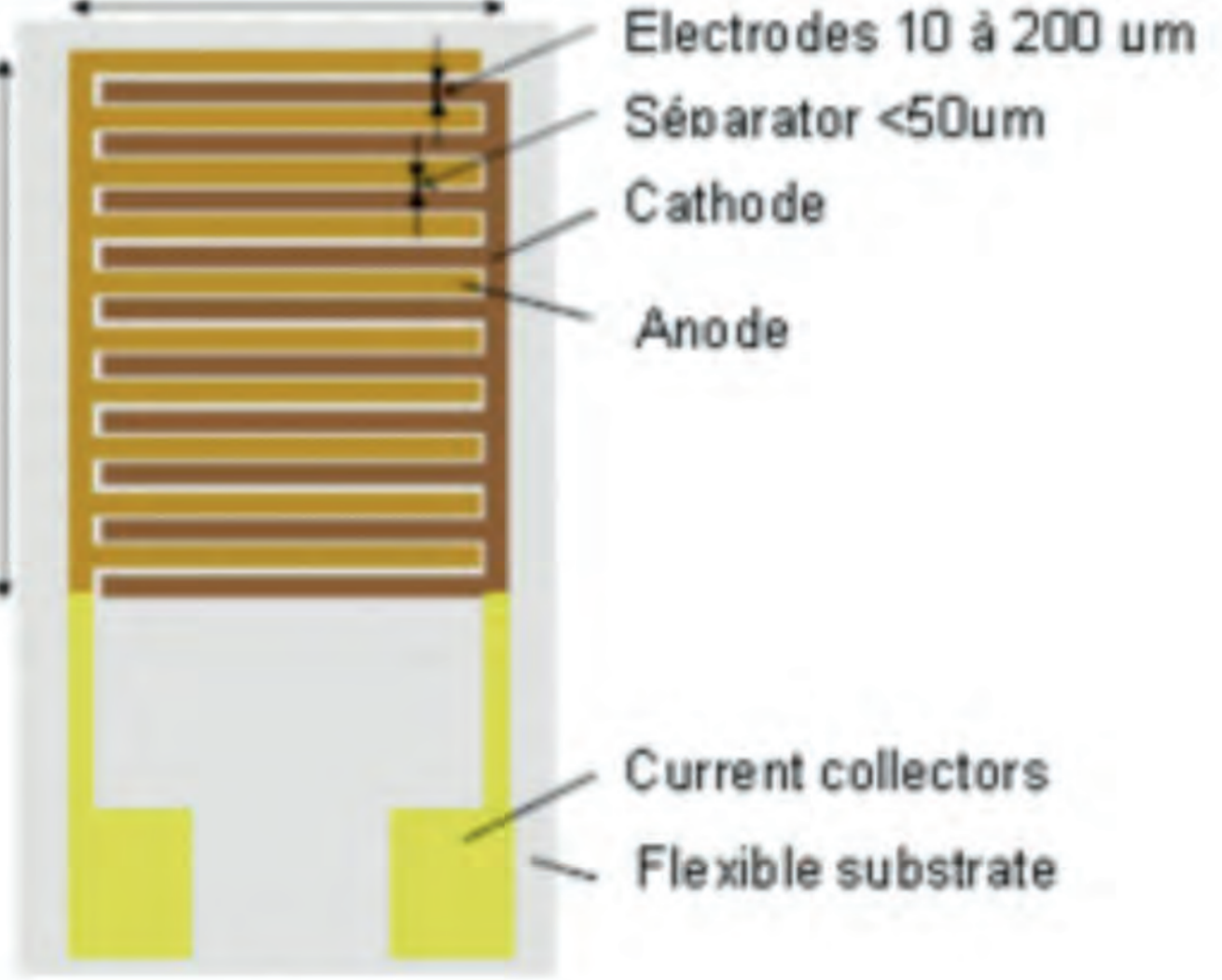



# BRINGING INNOVATION BY SCALING UP NANOMATERIALS AND INKS FOR PRINTING

The BASMATI project addresses the development of active nanomaterial and electrochemical inks for printing technologies such as screen and inkjet printing. The ink formulations are tested on a case study through printing of a thin film battery. The general objective of the project is to scale-up the ink formulations to pilot line ensuring large volume fabrication of new products with improved properties for printing application.

<b>NANOMATERIAL SYNTHESIS</b> 	<b>FUNCTIONAL INK FORMULATION</b> 	<b>HIGH THROUGHPUT PRINTING TECHNOLOGY</b> 	<b>UPSCALING &amp; PILOT</b> 	<b>THIN FILM BATTERY DEMONSTRATOR</b>
<b>CONDUCTIVE MATERIALS</b> ▶▶▶  <p>Cu</p> 	<b>CONDUCTIVE INKS</b> ▶▶▶  	<b>SCREEN PRINTING</b> ▶▶▶  	<b>POWDER</b> ▶▶▶  	<b>MULTISTACK</b> ▶▶▶  <p>Electrolyte Zinc Copper } 1 Element</p> 
<b>ELECTROCHEMICAL MATERIALS</b> ▶▶▶  <p>NMC Cathode material <math>\text{LiNiMnCoO}_2</math></p> <p>LFP Cathode material <math>\text{LiFePO}_4</math></p> 	<b>ELECTROCHEMICAL INKS</b> ▶▶▶  <p>NMC LFP</p> 	<b>INKJET AND DISPENSING PRINTING</b> ▶▶▶  <p>ink nozzle image data heat or piezo element ink droplet</p>  <p><b>PRINTED LAYER CHARACTERIZATION</b> ▶▶▶</p> 	<b>INK</b> ▶▶▶  	<b>INTERDIGITATED</b> ▶▶▶ <b>with Inkjet and Dispensing Printing</b>  <p>Electrodes 10 à 200 um Séparator &lt;50um Cathode Anode Current collectors Flexible substrate</p> 



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