

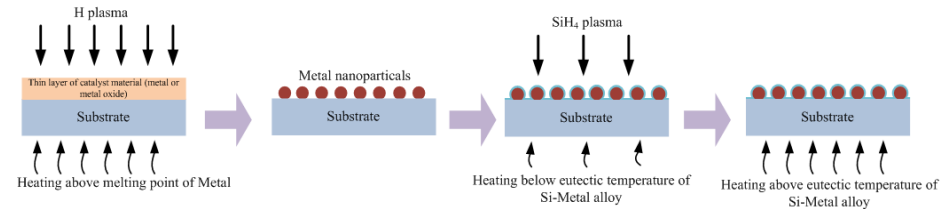
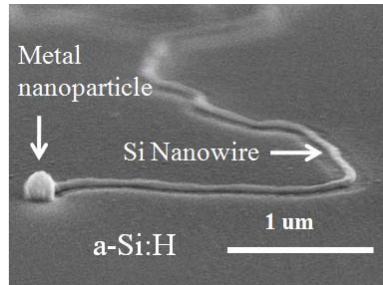
In-plane Si Solid-Liquid-Solid Nanowires and their applications on electronics

FAN Zheng¹, YU Linwei^{1,3}, Sophie BOUCHOULE², Christophe ROBLIN², Christophe DUPUIS², Stéphane GUILLET², Xavier LAFOSSE², Laurent COURAUD², Edmond CAMBRIL², Pere ROCA i CABARROCAS¹

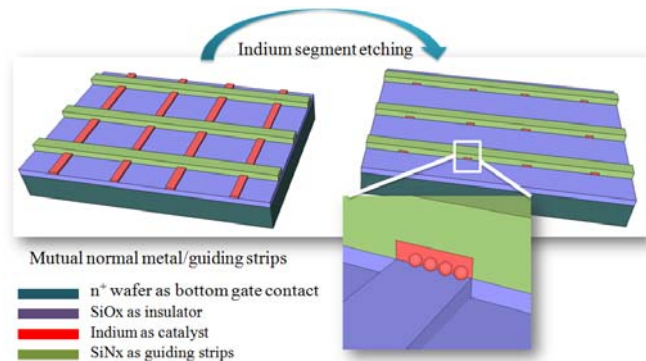
¹ LPICM, Ecole Polytechnique, CNRS, 91128 Palaiseau, France

² LPN, CNRS, Route de Nozay, 91460 Marcoussis, France

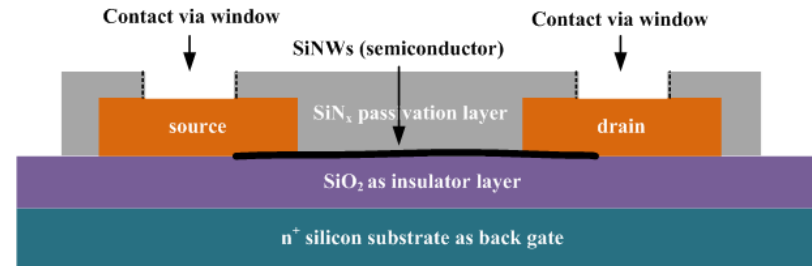
³ School of Electronics Science and Technology, Nanjing University, 210096 Nanjing, China



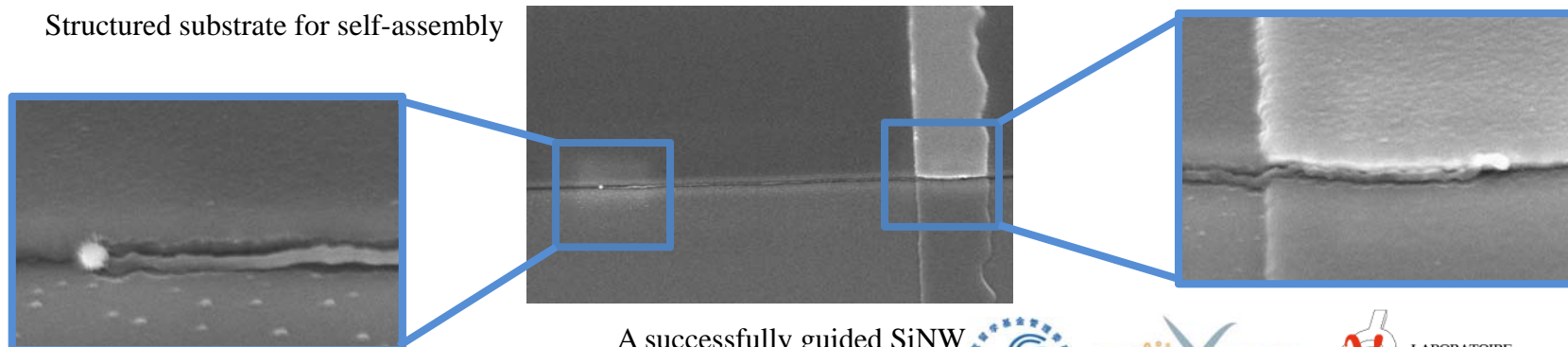
Synthesis of SiNW in PECVD system



Structured substrate for self-assembly



Schematic of SiNW MOSFET



A successfully guided SiNW

