Silicon-friendly Piezoelectric Materials For Energy Harvesting

Gonzalo Murillo, Carlos Camargo and Jaume Esteve
National Center of Microelectronics (IMB-CNM, CSIC), Spain

• The European project, SINERGY, dealing with silicon friendly materials and device solutions for microenergy will be presented.
• We will develop thermoelectric, electrostatic and piezoelectric energy harvesters and novel batteries to obtain an integrated system.
• ZnO nanostructures and AlN thin-films will be used as key piezoelectric materials for the silicon integration.