

SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

CNR - 2D thermoelectric materials for wearable electronic

Funded By	C.N.R. - CONSIGLIO NAZIONALE DELLE RICERCHE [P.iva/CF:02118311006]
Supervisor	LAMBERTI ANDREA - andrea.lamberti@polito.it
Contact	Fabiola Liscio CNR-IMM Bologna, liscio@bo.imm.cnr.it
Context of the research activity	<ol style="list-style-type: none">1. Synthesis and processing of 2D Transition-metal dichalcogenides (TMDCs) materials prepared by chemical vapor deposition (CVD) and electrochemical exfoliation techniques.2. Characterization of the structure, morphology and thermoelectric (TE) properties of thin films based on 2D chalcogenides3. Development of MEMS structure optimized for thermal conductivity measurements of films based on a few monolayers (MLs) of 2D materials.
Objectives	Theme bound scholarship funded by Consiglio Nazionale delle Ricerche – Istituto per la Microelettronica ed in Microsistemi Bologna (CNR-IMM Bologna) Scientific Responsible: Fabiola Liscio, CNR-IMM Bologna, liscio@bo.imm.cnr.it Main seat to carry out the research activity: CNR-IMM, Bologna
Skills and competencies for the development of the activity	<ul style="list-style-type: none">- Master degree in Physics or Chemistry preferred- Experience in laboratory- Ability to work and think independently- Motivation enthusiasm and passion