





PRIN 2022 PNRR - NanoStore

Engineered NANOstructures for sustainable and accessible photoenhanced energy STORagE devices









Workshop on advanced materials for energy storage applications: state-of-the-art and future perspectives

June 9th-10th 2025

Physics and Astronomy department, Catania University

Seminar room, building 6

Chairs: Prof.ssa M. Chiara Spadaro and Dott.ssa Vincenzina Strano

Agenda

June 9th 2025

10:00-10:10	Welcome and NanoStore presentation (DFA,CNR)
10:10-10:30	Daniela Russo (CNR-IMM)
10:30-11:15	Massimo Cuscunà (CNR-NANOTECH) – invited
10.30-11.13	2D Layered Thin Films for Solid-State Hydrogen Storage
11:15-11:30	Coffee break
	Emre Erdem (Sabbanci Uni) – invited
11:30-12:15	From Atomic Defects to Device Efficiency: Probing Oxide
	Nanomaterials for Supercapacitor Applications
12:15-12:35	Alessia Fischetti (DFA-UniCt)
12:35-14:00	Lunch break
14:00-16:30	Round table and lab tour

June 10th 2025

10:00-10:10	NanoStore perspectives (DFA, CNR)
	Richard Palmer (Swansea Uni) – invited
10:10-10:55	Manipulating Metal Atoms and Manufacturing Atomic
	Clusters
10:55-11:15	Claudio Lentini Campalleggio (DFA-UniCt)
11:15-11:30	Coffee break
	Claudia Triolo (UniRC) - invited
11:30-12:15	High-Entropy Oxides for Energy Storage Systems: Role of Crystalline
	Structure and Defects in Alkali Metal-Ion Battery Storage Mechanisms
	Vincenzo Grillo (CNR-NANO) – invited
12:15-13:00	Prospects of Al-automated electron microscopy for
	material science and energy applications
13:00-13:05	greetings





