

MONACOSTE summer school



*Modeling Nanomaterials for
Energy Transport and Storage*

*08th May-13th May 2022,
Villa Clythia, Fréjus, France
(French Riviera)*

Website :

<https://tinyurl.com/monacoste>



SCOPE : Designing new materials to store or convert waste energy is becoming an urgent challenge for the 21st century. Numerical techniques are becoming essential to tackle this challenge. Indeed, these last years have seen the flourishing development of new methods to model matter at nanometric scales. The objective of the summer school "Modeling of nanostructured materials for energy conversion and transport" is to train scientists in numerical techniques and tools for the modeling of energy transport and conversion in nano-structured materials

Topics covered

Phonon transport

Electronic transport

Near field radiation

Thermoelectricity

Ionic transport

Molecular dynamics

Ab initio calculations

Artificial intelligence

Finite element modeling

Monte Carlo methods

Photovoltaics

Thermophotovoltaics

Complex crystals

Amorphous materials

Speakers

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