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Piano Nazionale di Ripresa e Resilienza
Missione 4 - Componente 2 - Investimento 1.1
«Progetti di Ricerca di Rilevante Interesse Nazionale»

Title of the project

EnVironmentally friEndly pSeudoHalides mixed compounds for
tunable Photoactive pEroVskite mateRials (VESPER)

Scientific Investigator

Milanesio Marco

CUP code

C53C24000660006

"Soggetto attuatore"

UNIVERSITA' DEL PIEMONTE ORIENTALE

Via Duomo 6, Vercelli (VC) – 13100

Abstract

The VESPER project aims to develop new environmentally friendly photoactive materials based on lead(II) or copper(I) mixed halide-pseudohalides as sustainable alternatives to traditional perovskites. Recycled materials and green methods like mechanochemistry will be used. The materials will be thoroughly studied for stability, structure, and electronic properties. The goal is to obtain efficient, non-toxic, low-cost, and recyclable materials for next-generation photovoltaic devices.