

Diego Colombara

Fixed-term assistant professor

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Education and training

2012

PhD

Investigation of Chalcogenide Absorber Materials for Photovoltaic Applications

University of Bath - Bath - GB

2008

Laurea Specialistica in Scienze Chimiche

Mo/CuInS₂/CdS/TCO thin film photovoltaic systems - 110

Università di Genova - Genova - IT

Academic experience

2012 - 2015

Postdoctoral researcher

University of Luxembourg - Luxembourg - LU

Work experience

2015 - 2017

Principal Investigator and Lecturer

University of Luxembourg - Luxembourg - LU

Research interests

Diego Colombara's interests are on functional materials, particularly on chalcogenide semiconductors for solar cell applications. Generally speaking, his focus includes non-molecular solid state chemistry (multinary phase formation, defect chemistry, diffusion phenomena), thermodynamics and kinetics of solid-gas equilibria (phase stability and compatibility, reactive annealing, chemical vapour transport) and (photo)electrochemical processes (analytical and synthetic routes for thin films, microstructures and surfaces and energy conversion). His most recent research deals with the effects of extrinsic doping of chalcogenide semiconductors on microstructure, optoelectronic properties and the constituent's atomic diffusivity.

Grants

2008 - 2012

SuperGen PV21

Engineering and Physical Sciences Research Council - GB
Participant

2012 - 2015

ScaleNano

European Commission - LU
Participant

2015 - 2017

GALDOCHS

Fonds National de la Recherche de Luxembourg - LU
450000 Eur - Pricipal investigator

2017 - 2019

Mag-EC

European Commission - PT
18000 - Pricipal investigator