



Curriculum Vitae

Informazioni personali/

Personal Information

Nome e Cognome / Name and Surname **Erika Michela Dematteis**

Genere / Gender Femmina

Esperienze professionali/

Work Experiences

01/10/2021 -Università degli studi di Torino

Ricercatrice

20/10/2018 - 30/09/2021UNITO, CNRS

Ricercatrice PostDoc

Istruzione e formazione/

Education and Training

01/10/2015 - 19/10/2018PhD in Materials and Chemical Science (XXXI cycle, PhD cum laude) University of Turin,
Department of Chemistry and NIS, Torino, Italy Doctoral School of Sciences and Innovative
Technologies

Competenze personali/

Personal Skills

Lingua madre / Mother tongueItaliano

Altre lingue / Other languages*Livello / Level *

IngleseC1 - Avanzato

FranceseB1 - Intermedio

*Autovalutazione / Self-assessment: [Quadro Comune Europeo di Riferimento delle Lingue](#) /
[Common European Framework of Reference for Languages](#)

Altre competenze/

Other Skills

Altre competenze / Other skills? Thermodynamic modelling of materials according to the CALPHAD approach (TERMO-CALC software) and Machine Learning approaches for hydrides ? Experimental study and interpretation of multi-component phase diagrams data ? Inorganic materials and alloy synthesis (wet-chemistry, reactive ball milling, arc melting, induction furnace) ? Sample/ Raw material preparation (sampling, cutting, etching, polishing, closing silica tube under vacuum or inert atmosphere for thermal treatment) ? Materials advanced multi-techniques characterizations (combined experiments and theoretical approaches), such as: optical and

electronic microscopy, hardness and strength tests ? Air-sensitive materials manipulation using glove box and Schlenk lines ? Advanced crystallography (in-situ Synchrotron Radiation Powder X-ray and Neutron Diffraction, Rietveld Method); Sievert's method (PCI, TPD); Calorimetry and thermal analysis (HP-DSC, TGA-DSC-MS, TPPA) ? A wide background in industrial chemistry, metallurgy

Patente di guida / Driving licence A, B

Ulteriori informazioni/ Additional Information

Sito personale / Personal web https://www.chemistry.unito.it/do/docenti.pl/Show?_id=edematte#tab-profilo
pages

Ulteriori Informazioni / Additional
Info