

Pietro GALIZIA

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Awards

★ 2 International Quality Awards

Conferences

- ⊕ 6 invited lectures
- 13 oral presentations
- 11 posters

Skills

Characterization techniques:

SEM, EDS, image analysis,
XRD, Rietveld refinement,
mechanical testing, CTE, TGA, DSC,
dielectric, piezoelectric measurements,
ferromagnetic analysis

Software, Programming & Data Analysis:

MATLAB, COMSOL Multiphysics, Abaqus,
Visi, SolidWorks, Visual Basic, C++, Python,
Origin, GSAS

Formation



PhD Mat. Sci. (**magna cum laude**, 60/60 ECTS)
★ MSc Mat. Eng. (110L/110, 130/120 ECTS)
★ BSc Mat. Eng. (110/110, 180/180 ECTS)

Research visits

FORTH (GR): magnetolectric on multiferroic ceramics
Romanian Academy (RO): HT-XRD on perovskites
Romanian Academy (RO): Mössbauer on perovskites
EPFL (CH): CCMX Course (1 ECTS)
QMUL (UK): thermoelectric Bi₂Te₃
Colorado Univ. (US): SiOC pyrolysis

Citations > 1.3k

h-index: 23

60 Articles

Outreach

- 5.5 peer reviewed articles per year
- First author: 21 (35%)
 - Corresponding author: 19 (32%)
 - Last author: 6 (10%)
 - Single author: 1 (2%)

> 3.4k people
> 900 Snakeleev users

Other outputs:

- Conference papers: 3
- Book chapter: 1

Projects > €350k

(won and managed as PI through competitive calls)

- 1 Principal investigator (PI)
- 1 Workpackage leader
- 10 Collaborator ★ 5 Grants

PRIN22
SELWA

JECS Trust

Research CNR ISSMC

Researcher

First Researcher

Fixed-term Researcher: UHTCMCs

Research fellow: UHTCMCs

Research fellow: Ferrelectric/Ferromagnetic Ceramics

Investigated

Materials:

Piezoelectric: PZT- and BT-based systems (dense, porous, thick film)
Magnetic: spinel ferrites (FO, CFO), exaferrites
Ultra-high temperature ceramics (UHTC): borides and carbides (ZrB₂, SiC, ...)
Carbon fiber-reinforced ceramic matrix composites

Applications:

Actuators and sensors, energy harvesting, dielectrics and capacitors
Fusion (plasma-facing materials, deuterium irradiation)
Thermal protection systems and rocket nozzles (arc-jet tests, ablation resistance)
IIC-SAS (SK): borides thermal diffusivity

● Classical high school

2008

2012

2016

2020

2024

1 Oct →