



TeraHertz

NOVEL TECHNOLOGIES AND MATERIALS FOR TERAHERTZ RADIATION CONTROL

RESEARCH OBJECTIVES:

Organizing the
Research and
Network-wide
Training
Programme

Review of the
State-of-the-Art in
the Research Field
and Selection of
Dielectric/
Semiconductor
Crystalline and
Nanocomposite
Materials for
Investigation

Development and
Approbation of
Techniques for
Materials
Characterization
in THz Spectral
Range

Three-dimensinal
Analysis of the
Spatial Anisotropy
and Choosing the
Most Effective
Geometries of
the Investigated
Materials

Studying the
Influence of the
Intensities of the
Exciting Optical
Beam and the
Applied External
Electric Field on
the Properties of
the Investigated
Semiconductor
Materials

Fabrication and
Testing of
Laboratory
Prototypes of
Highly Efficient
Quasi-optoelectronic
Cells from Bulk
Dielectric/
Semiconductor
Crystalline Materials

Manufacturing
and Testing the
Laboratory
Prototypes of
Quasi-optoelectronic
Cells Based on the
Photogeneration
of Carriers in
Semiconductor
Materials and its
Coplanar Structures

Translation of
the Quasi-optical
Technologies and
Engineered
Materials into
Innovative
Products

INFORMATION ON THE PROJECT

Project name: Novel Technologies and Materials for
TeraHertz Radiation Control

Project number: 101086493

Project acronym: TeraHertz

Topic: HORIZON-MSCA-2021-SE-01-01

Type of action: HORIZON TMA MSCA Staff Exchanges

LEARN MORE AT:

Project website

<https://terahertz-project.eu>



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