



Programme

Conference of the Italian Photovoltaic
Network for Research, Development
and and Innovation

Napoli - Bagnoli

27 - 28 May 2025

Status of 26 May 2025



Tuesday 27 May

08:30 - 09:30 | Registration



09:30 - 10:00 | Welcome addresses

Filippo De Rossi - Subcommissario per la bonifica ambientale e rigenerazione urbana dell'area di rilevante interesse nazionale Bagnoli

Gaetano Manfredi - Sindaco di Napoli

Valeria Fascione - Assessore con delega alla Ricerca, Innovazione e Startup della Regione Campania della Regione Campania



10:00-10:20

Giulia Monteleone

Direttrice Dipartimento Tecnologie Energetiche e Fonti Rinnovabili ENEA

Fonti rinnovabili: iniziative e misure per una economia a zero emissioni di carbonio

10:20-10:40

David Moser

Managing Director Becquerel Institute Italia, vice chair ETIP PV

A strategic research and innovation agenda for PV

10:45-12:00

Tavola rotonda

Italia, Hub europeo del Fotovoltaico:

Una Visione Collaborativa per un futuro energetico resiliente

Moderator:

Massimo Mazzer, CNR, National Research Council | RetelFV

Speakers

- **Cosimo Gerardi**, 3SUN
- **Gianluca Coletti**, FUTURASUN
- **Paolo Viscontini**, Italia Solare
- **Diego Percopo**, Set Energie
- **Giovanni Savini**, MiMIT
- **Elena De Luca**, MASE
- **Francesco Basile**, MUR

13:00 | Topic 1 - Session 1**Fundamental research on photovoltaic materials and devices***5 minutes presentations or 10 min. presentation + 2 min. Q&A*

5 min

Hanna Ellis

European Commission - Joint Research Centre

Investigating Measurement Methodology for Perovskite PV Modules

5 min

Alice Scardina

Università di Pavia

Tuning the Orientation of Low-Dimensional Perovskites for Efficient Photovoltaic Devices

5 min

Debendra Prasad Panda

Università di Napoli Federico II

Deciphering the Role of Halide Engineering in Enhancing Outdoor and Indoor Photovoltaic Performance of DMSO-Free Tin Halide Perovskites

5 min

Gianluca Timò

RSE

First Demonstration of a Three Terminals-quadruple Junction InGaP/InGaAs/Ge/T/Ge Solar Cell

12 min

Diego Di Girolamo

3SUN

Perovskite Silicon Tandem Development in 3Sun Gigafactory

12 min

Silvia Colella

CNR, National Research Council

Interface Engineering based on Plasma Processing for Perovskite Solar Cells

12 min

Annalisa Bruno

Nanyang Technological University

Perovskites Thermal Evaporation for Advanced Photovoltaics and Optoelectronics Device Customization

14:20 | Topic 3 - Session 1

Photovoltaic applications

5 minutes presentations or 10 min. presentation + 2 min. Q&A

5 min

Valeria Casalicchio

EURAC Research

Assessing BIPV Competitiveness in Selected European Renewable Energy Communities

5 min

Carminc Cancro

ENEA

Design And Testing of an Innovative Closed Agrivoltaic System: "Algaeoltaicm"

5 min

Gianfranco Modoni

CNR, National Research Council

BIPV designing by VR/AR and DT. The case of Parma Municipality administrative building

12 min

Giorgio Pastore

SoliTek

Case Study of Bifacial PV based Noise Barriers in Lithuania

12 min

Angele Reinders

Eindhoven University of Technology

Luminescent Solar Concentrator Photovoltaics: From Research to Design of Applications in Products and Buildings

12 min

Andrea Lamberti

Politecnico di Torino

Sustainable PV-Based Indoor Power Solutions: Can We Eliminate Power Management Electronics in Building Integrated Photovoltaic Systems?

Short presentations by the conference sponsors

Sponsors speech

3 minutes presentations

Kenosistec

Midsummer

15:30 | Coffee break

15:30 - 16:40 | Parallel event

Lighting Flowers room

Project GoPV: What's going on?

Please, find the detailed program on page 19



15:30 | Poster elevator pitch | Topic 1
Fundamental research on photovoltaic materials and devices

3 minutes presentations

Sara Ferrara

Università di Torino

Green Production of Flexible Cathodes for Dye Sensitized Solar Cells: Biodegradable Cellulose-Based Substrates

Franco Trespidi

RSE

Design and Optimization of a High-Performance Compact Prismatic Solar Concentrator for CPV

Martina Botti

Università di Salerno

Electro-Thermal Circuital Model of PV Cells Subjected to Optical Degradation Phenomena

Filippo Annoni

RSE

Investigating Optoelectronic Properties of ZnSnN₂ Grown by High-Power Impulse Magnetron Sputtering for Tandem Solar Cells

Pasquale Morvillo

ENEA

Development of Semitransparent Organic Solar Cells for Greenhouse Applications

Elisabetta Achilli

RSE

Strain Release and Morphology Evolution Control in Step-graded III-V Metamorphic Buffers on Ge: a Pathway for Sustainable MJ Solar Cells

Paola Jakuzza

Università di Padova

Hotspot analysis on a Flexible PV Mini-modules based on IBC Solar Cells

Daimiota Takhellambam

Università di Roma Tor Vergata

Augmenting Green Solvents in Upscaling Flexible Perovskite Solar Cells in Ambient Air

Donato Spolitore

Università di Parma

Delocalization Promoted by Structural Order Fosters Efficient Charge Separation at Molecular Heterojunctions

Paolo Mariani

CNR, National Research Council

A Technical Study to Bring Dye-Sensitized Solar Cells Technology Towards Scaled-Up Production

Alessandra Alberti

CNR, National Research Council

Resilience to Demixing and Phase Segregation in Perovskite Solar Cells Under Light-Dark Cycles and Temperature**Davide Delmonte**

CNR, National Research Council

Advancing Ferro-Photovoltaic Materials Synthesis: Mechanochemistry as a Creative Pathway for SbSI**Daniel Alencar**

Università di Torino

Sustainable Hole Transport Materials for Perovskite Solar Cells: Bridging Performance and Eco-Friendly Manufacturing**Poster elevator pitch | Topic 2****Electronics and PV integration with grid and storage systems***3 minutes presentations***Giovanni Spagnuolo**

Università di Salerno

An Isomorphism-based PV Array Digital Twin**Asja Alic**

Università di Trento

Optimal Operation and Revamping Strategy for an Integrated Photovoltaic -Battery Energy Storage System Considering Cyclic Degradation**Poster elevator pitch | Topic 3****Photovoltaic applications***3 minutes presentations***Leonardo Micheli**

Università di Roma La Sapienza

The Impact of Dust Storms on the Growing Photovoltaic Capacity**Alessandro Minini, Marco Memminger**

EURAC Research

Screening of Module Components Towards Improved Diffusive Properties of Overhead agriPV Modules**Kateryna Bondar**

Università di Torino

Theoretical Characterization of NIR Cyanine Dyes for Dye-Sensitized Solar Cells (DSSC)**Serena Amenta**

Politecnico di Torino

Vacuum Pouch Sealing and Polymer Electrolyte Integration for Scalable DSSC Fabrication

Ali Sohani

Università di Roma Tor Vergata

Evaluation of the Accuracy of Bifacial PV Power Estimation Models Using an Experimental Setup**Giovanni Arcidiacono**

Università di Salerno

Experimental Observation on a Bifacial Photovoltaic-Green Roof**Riccardo Adinolfi Borea**

Università di Bologna

Optimizing Diffuse-Stow Tracking for Photovoltaic Systems: Balancing Energy Yield and Tracker Movement**Poster elevator pitch | Topic 4**
Economics of photovoltaic supply chains and sustainability*3 minutes presentations***Francesco Groppi**

Studio tecnico Groppi

Build PV Safely**Poster elevator pitch | Topic 5**
Green energy transition and social transformations*3 minutes presentations***Massimiliano Mariani**

CNR, National Research Council

Environmental Impact of Photovoltaic Modules and Solar Systems for the Energy Transition of Urban Areas**Giulio Poggiaroni**

ETA-Florence Renewable Energies

Digital Platforms and Collaborative Strategies for Advancing Solar Architecture in Europe**Giuseppina Santomartino**

Università di Napoli Federico II

Integrated Strategies for Urban Sustainability: The Role of Green-Blue-Roofs in Urban Contexts

Posters | Topic 1

- **Antonella De Maria**, ENEA
Zno Nanoparticle Coating On Polymer Encapsulants For Application In Emerging Solar Cell Technologies
- **Fancesco Cipriani**, Università Salerno
Graphene-Based Transparent Electrodes Behavior in Space Environment for Space Solar Cells Applications
- **Fabio Butrichi**, Università Milano Bicocca
Alternative Buffer Layers for Cu₂ZnSn(S,Se)₄ and Sb₂Se₃ Solar Cells: Numerical and Experimental Study
- **Laura Lancellotti**, ENEA
Dopant Free Silicon Heterojunction As Bottom Cell In Perovskite/silicon Tandem Solar Cells
- **Amr Osama Mostafa Mohamed**, Università Di Catania
Advancing PV Thermal Modeling: Sensitivity to Real Electrical Operating Conditions
- **Alessio Dessi**, CNR, National Research Council
Optimization of Semi-transparent DSSC Lifetime towards Building-integrated Photovoltaics
- **Berenice Elena Gaia Colombo**, Università di Milano Bicocca
Flexible Kesterite Solar Cells Produced by Inkjet Printing
- **Gabriele Viada**, Università di Torino
Polyurethane-based Matrices Hosting Novel NIR-emitting Dyes towards Colourless Luminescent Solar Concentrators
- **Claudia, Malerba**, ENEA
Al-doped ZnO: insights on the Films Degradation
- **Carmen Serpico**, Università Di Napoli Federico II
Interfacial Passivation Between CsPbI₃ and Hole Transport Layers: Experimental and Theoretical Insights
- **Rabeb Issaoui**, Università Di Napoli Federico II
Boosting the Performance of Tin Perovskite Solar Using Pyridinium Salt
- **Luca Serenelli**, ENEA
Base Contact in Dopant Free Silicon Heterojunction Solar Cells
- **Giovanna Sozzi**, Università di Parma
Evaluating the Impact of Defects on Doping Profile Measurements in CIGS Solar Cells Using CV and DLCP
- **Mehr Un Nisa**, Università di Milano Bicocca
Effect of Silver-doping on Kesterite Nanoparticles as Hole Transport Material in Perovskite Solar Cells
- **Muhammad Okash Ur Rehman**, Università Di Napoli Federico II
Dimethyl Sulfoxide (DMSO) Free Tin Halide Perovskite over 10%
- **Noor Ul Ain Ahmed**, Università di Salerno
Science Mapping Analysis on Computational Methods for Solar Cells
- **Alessandro Romeo**, Università Di Verona
The effect of Thickness on the Sb₂Se₃ Superstrate Solar Cells
- **Alessio D'Ettorre**, Università di Siena
In-silico Modeling of Bacteriorhodopsin/TiO₂ Hybrid System: A Combined SMD-MD and QM/MM Study to Uncover Molecular Factors in Bio-based Solar Energy Conversion Devices
- **Alessia Sambri**, CNR, National Research Council
Epitaxial γ -BaFe₂O₄ thin Films Grown by PLD as Possible Absorber layer in FE-PV Devices

- **Lorenzo Miele**, Università di Napoli Federico II
Polymer Assisted Tin-Based Perovskite Solar Cell Formation
- **Adriana Pecoraro**, Università Di Napoli Federico II
First-Principles Investigation of Optical and Transport Properties in Methylammonium Lead Iodide and Triple-Cation Perovskites
- **Mattia Della Monaca**, Solertix
Ligand-modified SnO₂ as an efficient scalable and Non-Fullerene electron transport layer for inverted perovskite solar cells
- **Adriana Pecoraro**, Università di Napoli Federico II
Atomistic Insights into in Stability and Charge Transfer Improvements in Perovskite Solar Cells with Self-Assembled Monolayer and [1]Benzothieno[3,2-b][1]Benzothiophene Interlayer
- **Gennaro Vincenzo Sannino**, Università Di Napoli Federico II
Solvent Engineering to Address the Conformality Issue of Spin-Coated TiO₂ Compact Layers in CsPbBr₃-based Solar Cells
- **Alessandro Romeo**, Università Di Verona
A New Method for Sb-doped CdSeTe/CdTe Devices with Superior Stability
- **Giuseppe Nasti**, ENEA
Passivation Strategies for Sputter-Protected Semitransparent p–i–n Perovskite Solar Cells
- **Vanna Torrisi**, CNR, National Research Council
Stable and Scalable Sputter-deposited MoO_x Contacts for High-Efficiency c-Si Heterojunction
- **Gaetano Mannino**, Università Di Catania
Overview of Influencing Factors on Hail Lab Test
- **Federico Trezzini**, University Of Rome Tor Vergata
Enhancing Voc and Performance of High-Bandgap Hybrid Perovskite Solar Cells via Interlayers and Passivation Strategies
- **Mariangela Latino**, CNR, National Research Council
Advanced Electrode Technologies for a Sustainable Energy Future: Optimizing DSSCs, Flexible Solar Cells, and Hydrogen Production
- **Vanni Lughì**, **Università di Trieste**
Upconversion Via Quantum Dot-Based Nanostructured Colloidal Films
- **Alessandro Romeo**, Università Di Verona
Comparison of Flexible Molybdenum Foil and Sputtered Molybdenum Back Contacts for CZTSSe Solar Cells.
- **Anna De Girolamo Del Mauro**, ENEA
MABr-based Post Treatments of Co-evaporated MAPbI₃ for Bandgap Widening
- **Waqar Ahmad**, Università di Salerno
Experimental Evaluation of the Temperature Coefficients for the Photovoltaic (PV) Module Close to Standard Test Conditions
- **Jessica Jazmine Nicole Barrantes**, Università di Padova
Modeling of Transport Mechanisms in Silicon Heterojunction Solar Cells: Trap-Assisted Tunneling at the Emitter Interface
- **Claudia Casu**, Università di Padova
Investigation of the Stability of Sb₂Se₃ Thin Film Solar Cell during Monochromatic Light Soaking
- **Giulia Spaggiari**, CNR, National Research Council
Nanoscale Insights into Sb₂Se₃ Thin Film Solar Cell Interfaces
- **Michele Casappa**, CNR, National Research Council
Interface Optimization via HTL and ETL Selection in Sb₂(S,Se)₃-based Solar Cells

- **Eliana Gaudino**, Università Di Napoli Federico II
Low-emissive Transparent Conductive Oxides (TCOs) for High-Vacuum hybrid Photovoltaic-Thermal application
- **Annalisa Di Napoli**, Università Di Napoli Federico II
Commissioning of a Measuring System for Characterisation of PV-T Cell in High Vacuum
- **Baptiste Charrier**, Università di Torino
Indoor DSSCs: Investigating the Effect of Bufexamic Acid Treatment on Stability
- **Giovanni Spinelli**, Università di Torino
Tunable Electronic and Conductive Properties of complexes via Transition Metal Substitution
- **Zain Ul Abidin Qureshi**, Università Di Napoli Federico II
TCAD Simulations of Bottom and Top Cells for Tandem Solar Cells: Current-Voltage and Impedance Spectroscopy Analysis
- **Alessio Dessì**, CNR, National Research Council
Development of Heterocycle-Based D-A-D Organic Fluorophores for Optical Properties Tunability and Their Potential in LSC Applications.

Posters | Topic 2

- **Jawad Dabbas**, Jordan Electric Power Company
Enhancing Solar Power Projects Viability Through AI-Optimized Ramp Rate Control for Voltage Management in Distribution Networks
- **Roberta Merolla**, Università di Salerno
Lithium-ion battery safety
- **Fabio Casini**, Politecnico Di Torino
Autonomous Solar-Powered Chronothermostat: A Novel Approach to Energy Harvesting in Indoor Environments
- **Grazia Barchi**, EURAC Research
Enhanced Distribution System State Estimation in High PV Penetration Scenarios Using Smart Meter Data
- **Muhammad Affan Khan**, Marche Polytechnic University
An Adaptive Appliance-Incremental and Photovoltaic-Aware Load Disaggregation Framework for Smart Energy Management

Posters | Topic 3

- **Shoaib Ahmed**, Università della Basilicata
Modelling and Integration of Photovoltaics (PV) and Electric Vehicles (EVs) in Renewable Energy Community
- **Carlos Pavon**, Università di Salerno
Innovative Online Diagnostics for Photovoltaic Systems: A Cost-Effective Approach Using Impedance Spectroscopy
- **Francesco Groppi**, Studio Tecnico Groppi
PV Systems and Safety
- **Paola Fornarini**, Università Di Siena
SWOT Analysis of Building-Integrated Photovoltaics: Evaluating Conventional and Emerging Technologies
- **Mahdiyeh Tabatabaei**, Università di Bologna
Effective Integration of Solar Panels into Building Components: A Study of innovative Technologies and Design Constraints in Historic Contexts

- **Ramiro dell’Erba**, ENEA
Cost effective operation and maintenance of floating photovoltaic power plants based on unmanned surface vehicles
- **Giulio Poggiaroni**, ETA-Florence Renewable Energies
Integrating Photovoltaics in Nature-Based Solutions: The Case of Rimini
- **Federica Colucci**, ENEA
Agrivoltaics and Desalination: A Virtuous Example of Nexus?
- **Donato Pasculli**, Università di Torino
NIR Photosensitizers and Organic Electrolytes for Colorless And Transparent Dye Sensitized Solar Cells
- **Martina Pelle**, EURAC Research
Accurate prediction of the Electrical Behavior of Colored Photovoltaic Modules PMMA Films Doped with Organic Chromophores
- **Ecem Onen**, Università di Salerno
Analysis of PAR and Broadband Irradiance Patterns to Enhance Agrivoltaic Design in Mediterranean Climates: A Case Study of Palermo
- **Musab Hammas Khan**, Università di Salerno
Hybrid Nano-Electrodes of Lithium Batteries in Photovoltaics for Aviation
- **Giancarlo Dimauro**, M2 Energia Srl
Dynamic Agrivoltaic Systems for the Cultivation of Medicinal Plants

Posters | Topic 4

- **Gabriella Gonnella**, EURAC Research
Trends, Potentials and Challenges of Innovative PV Technologies: Lessons Learned from CANVAS Project
- **Girolamo Di Francia**, ENEA
How long does a photovoltaic module last?



Posters | Topic 5

- **Paolo Picchi**, ETA-Florence Renewable Energies
Designing Agrivoltaic Systems Tailored on The Local Landscape Agri-Environmental Systems: A Frontrunner Consultancy Approach in Italy
- **Salvatore Fabozzi**, ENEA
Integrating Photovoltaic Systems into Smart Grids - Mission Innovation Project and the ENEA Smart Grid in Portici
- **Paolo Picchi**, ETA-Florence Renewable Energies
Developing a Cross European Cooperation for Agrivoltaics Development. Outcomes from the Symbiosyst project.
- **Felipe Barroco Fontes Cunha**, Aess - Agenzia Per L'energia Lo Sviluppo Sostenibile
Energy Community Hubs: A Review of Tools and Best Practices for Empowering Citizens
- **Kire Stavrov**, University Ss Cyril And Methodius
Remote Sensing Methodology of the LiDAR Data in Determining Solar Potentials of the Built Environment in Negotino, Macedonia
- **Jenifer Godoy Daltrozo**, Ufrgs
Advancing Gender Equity in Solar Energy: Insights from a Case Study

Technical specifications:

The poster must be created in a format with the following maximum dimensions: 75 cm x 95 cm.

Hanging posters:

From 27 May at 8:30 and during opening session.

Poster removal:

From 28 May at 10:00 until a few minutes before the conference closing session.



16:40 | Topic 2**Electronics and PV integration with grid and storage systems***5 minutes presentations or 10 min. presentation + 2 min. Q&A*

5 min

Gianluigi Bovesecchi

Università di Roma Tor Vergata

Infinity, a Small-scale Prototype for Firm-PV Generation

5 min

Nicola Sangiorgi

CNR, National Research Council

Multi-functional WO₃-based Photoelectrodes for Solar Supercapacitors

12 min

Roberto Giacomobono

UNiversità di Salerno

Total Efficiency of Voltage Doubler Based Multi Stage CSI Inverter

12 min

Alessandro Lorenzo Palma

ENEA

Supercapacitors as a System-Level Solution for Enhanced Photovoltaics Self-Consumption Strategies

12 min

Grazia Barchi

EURAC Research

The Role of PV and BESS in the Flexibility of Plus Energy Buildings**Short presentations by the conference sponsors**

Sponsors speech

3 minutes presentations

DKC

Termofisher

18:00 | Topic 1 - Session 2**Fundamental research on photovoltaic materials and devices***5 minutes presentations or 10 min. presentation + 2 min. Q&A*

5 min

Elisa Nonni

Solertix

Stack Optimization for Low-Cost Large Area Bifacial 4 Terminal Perovskite Silicon Tandem with Efficiencies Up To 30%

5 min

Noah Tormena

Università di Padova

Stability of Perovskite-Based Mini-Modules: Experimental Analysis and Interpretation

5 min

Fabio Matteocci

Università di Roma Tor Vergata

Transparent Perovskite Technology for BIPV and Tandem Application

5 min

Lucio Cinà

Cicci Research s.r.l.

The quest for advanced electro-optical tests in photovoltaic research

12 min

Antonio Abate

Università di Napoli Federico II

Lead-Free Perovskite Solar Cells

12 min

Carla Gobbo

Università di Milano Bicocca

Overcoming 20% Efficiency in Kesterite/Perovskite Tandem Solar Cells on Rigid and Flexible Substrates

12 min

Giulia Spaggiari

CNR, National Research Council

Enhancing the Performance of Sb₂Se₃ Thin-Film Solar Cells: Strategies for Optimization and the Role of Characterization**19:00 | Aperitivo****Prizes**

Elevator pitch Topic 1 Award

Elevator pitch Topic 2 -5 Awards

Poster Award

Attractor paper of RetelFV 2025

*The Prizes will be delivered on
Tuesday 27 May during the
aperitivo*

Wednesday 28 May

08:40 | Topic 1 - Session 3

Fundamental research on photovoltaic materials and devices

5 minutes presentations or 10 min. presentation + 2 min. Q&A

5 min

Lorenzo Squillantini

CNR, National Research Council

Enhancing the Performance of Inverted Hybrid Perovskite Solar Cells with Sustainable Carbon Nanoparticle Integration: Impact of Chemical Composition on Efficiency

5 min

Antonio Carella

Università di Napoli Federico II

Novel isoindigo derivatives as electron transport materials for perovskite solar cells

5 min

Roberto Speranza

Politecnico di Torino

Valerolactone as a Green and Low-Toxic Solvent for Dye-Sensitized Solar Cells under Indoor Illumination

12 min

Alessandro Lanuti

Solertix

Lamination of Tandem Perovskite Silicon 4T modules: a step toward industrialization

12 min

Thomas Brown

Università di Roma Tor Vergata

Photovoltaics for Indoor Energy Harvesting

10:00 | Coffee break

10:30 | Topic 4**Economics of photovoltaic supply chains and sustainability****Topic 5****Green energy transition and social transformations***5 minutes presentations or 10 min. presentation + 2 min. Q&A*

5 min

Gabriella Gonnella

EURAC Research

Economic Feasibility Assessment of Building-Integrated Photovoltaics Across Different Markets

5 min

David Moser

Becquerel Institute Italia

Solar Access and AI for Resource Democratization

12 min

Julia Nerantzia Tzortzi

Politecnico di Milano

Circular Production in Photovoltaic Supply Chains: A Lifecycle-Based Approach to Economic and Environmental Sustainability

5 min

Mirella De Falco

Università di Roma La Sapienza

The Social Acceptability of Agrivoltaics: Findings from an I-SETA Model

12 min

Paolo Picchi

Università di Firenze

Community Engagement In Designing Agrivoltaic Systems as Social-Ecological Systems - A Case Study in Friuli Region, Italy**Short presentations by the conference sponsors**Sponsors speech
3 minutes presentations

3SUN

RISE Technology

11:45 | Topic 3 - Session 2

Photovoltaic applications

5 minutes presentations or 10 min. presentation + 2 min. Q&A

5 min

Marco Leonardi

3SUN

Outdoor Reliability of Solar Modules in Desertic Conditions: a Yearly Assessment by a Semi-empirical Approach

5 min

Giovanni Landi

ENEA

Photovoltaic-Powered IoT Platform for Indoor Environmental Monitoring

5 min

Federico Andreozzi

Università di Roma Tor Vergata

Long-Term Performance and Degradation Testing Of Bifacial PV Modules For Agri-PV Application

12 min

Giosuè Maugeri

RSE

A Public Repository for PV Production Data with Fault Events: Enabling Advanced Fault Detection and Diagnosis Models

12 min

Martina Pelle

EURAC Research

Industrial feasibility study and scale-up of coloured encapsulant with organic fluorophores for BIPV applications

Short presentations by the conference sponsors

Sponsors speech
3 minutes presentations

Solitek

OffGridSun

13:00 | Topic 1 - Session 4**Fundamental research on photovoltaic materials and devices***5 minutes presentations or 10 min. presentation + 2 min. Q&A*

5 min

Floriana Morabito

CNR, National Research Council

Perspectives for a Spectral Splitting Solar Concentrator with Minimum Self-Shading for 4-Terminals and Bifacial Applications: Numerical Evaluations

5 min

Nadir Vanni

CNR, National Research Council

Ambient Air Deposition Allows Reaching Record Light Use Efficiency in FAPbI₃ Perovskite Solar Cells

5 min

Erica Magliano

CNR, National Research Council

Advancing All-Perovskite Tandem Solar Cells: Optimization Strategies for Enhanced Efficiency

5 min

Salvatore Ferruggia Bonura

Università di Palermo

Optical Structural Feature Evaluation Of Glasses For Photovoltaic Applications

12 min

Marcello Franzini

Università di Torino

Ni-Based Coordination Polymer as Counter Electrode Exceeding 10% Efficiency in Dye Sensitized Solar Cells

12 min

Francesca Menchini

ENEA

Thermally Evaporated Indium Oxide as TCO for Fully-evaporated Silicon-based Heterojunction Solar Cells

12 min

Alessandro Romeo

Università di Verona

CdTe Solar Cells for Tandem Si Solar Cells**14:10 | Final session****Final Remarks and announcement of the venue of RetelFV2026**

Light lunch

27 May

15:30 - 16:40 | Parallel event

Lighting Flowers room

Project GoPV: What's going on?

Introduction

Paola Delli Veneri, ENEA, Project coordinator

- **Innovative materials for perovskite/Si tandem solar cells**

Gennaro V. Sannino, ENEA, INSTM

- **TCO and Selective Contacts**

Maria Miritello, Università degli Studi di Catania

- **Low-lead narrow-bandgap perovskite**

Antonio Abate, Università degli Studi di Napoli Federico II

- **Design of Strong and Weak Intermolecular Interactions to Engineer Buried Interfaces in Inverted Wide-Bandgap Perovskite Solar Cells**

Annamaria Petrozza, Istituto Italiano di Tecnologia

- **Interface engineering for the integration of wide band gap 2D perovskites**

Alice Scardina, Università degli Studi di Pavia

- **Materials for perovskite cells in single and tandem configurations**

Aldo Di Carlo, Università degli Studi di Tor Vergata

- **Modeling and Screening of Optimized Perovskite Material**

Luca Gregori, Università degli Studi di Perugia

- **The applications of two-dimensional materials in photovoltaic**

Cosimo Anichini, BeDimensional

Conference Chair

Paola Delli Veneri

Scientific and Strategic Committee

The members of the Permanent Consultation Board of RetelFV

Claudia Barolo
Simona Binetti
Fabrizio Bizzarri
Paola Delli Veneri

Aldo Di Carlo
Angela Grassi
Salvatore Guastella
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Media partners



RetelFV 2025 | 27-28 May 2025

Napoli, Parco Bagnoli

Auditorium della Porta del Parco, via Diocleziano 341

Kindly note:

Please be advised that the venue does not have Wi-Fi.