

# PEROSPACE Workshop

Organizer: Dr. Narges Yaghoobi Nia

Free Registration via:

[https://docs.google.com/forms/d/e/1FAIpQLSdJqtp-SlaOUEE\\_xQFu04NF4\\_iiA9E3d1lt\\_dh11-njpbdNOg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdJqtp-SlaOUEE_xQFu04NF4_iiA9E3d1lt_dh11-njpbdNOg/viewform?usp=sf_link)

Day 1: Perovskite Solar Module Fabrication & Commercialization  
28<sup>th</sup> November 2022

Address: University of Rome Tor Vergata, Via del Politecnico 1, Department of Electronics Engineering, Conference Room. **Hybrid (in person and online)**

Monday November 28 2022	
10:00-10:30	Registration - Welcome

Session 1		
Time	Speaker	Topic
10:30-10:40	Dr. Narges Yaghoobi Nia, Prof. Aldo Di Carlo	Welcome Opening
10:40-11:30	Dr. Mahmoud Zendeheel (CHOSE Centre, University of Rome Tor Vergata)	Sustainable Fabrication of Super Stable and Efficient Perovskite Solar Modules
11:30-12:20	Dr. Tanja Ivanovska (Saule Technologies company)	Commercial Aspects of Flexible PSC

12:20-13:50	Lunch
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Session 2		
Time	Speaker	Topic
13:50-14:40	Prof. Mohammed Nazeeruddin (EPFL University)	Development of Efficient and Stable Perovskite Solar Cells and Modules
14:40-15:30	Dr. Aranzazu Aguirre (IMEC)	Upscaling Stable Perovskite Modules: Challenges

15:30-16:00	Break
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Session 3		
Time	Speaker	Topic
16:00-16:50	Prof. Christian Hagendorf (Fraunhofer Center for Silicon Photovoltaics CSP)	High Resolution Diagnostics and Metrology for Perovskite Solar Cells

16:50-17:30	Visit the laboratory
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**Day 2: Space Application of Perovskite Solar Photovoltaics**

**29<sup>th</sup> November 2022**

**Address: School of Aerospace Engineering of Sapienza University of Rome, Via Salaria 851, 00138 Rome, Italy. In person participation**

**Tuesday November 29 2022**

9:00-9:30	Registration - Welcome
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**Session 1**

<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
9:30-9:40	Prof. Giovanni Palmerini (School of Aerospace Engineering of Sapienza University of Rome)	Welcome Opening
9:40-10:20	Prof. Luigi Schirone (School of Aerospace Engineering of Sapienza University of Rome)	Photovoltaic in Space: An Overview
10:20-11:30	Prof. Salvo Marcuccio & Dr. Matteo Gemignani (Space systems Laboratory, University of Pisa)	Perovskite Solar Modules, Low-Cost Testing and Characterization on Stratospheric Platforms

11:30-11:50	Break
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**Session 2**

<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
11:50-12:40	Dr. Ahmed Rasa Kirmani (Rochester Institute of Technology (RIT))	Ultralight and Low-Cost Oxide Barriers for Terrestrial and Space Perovskite Photovoltaics

12:40-14:00	Lunch
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**Session 3**

<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
14:00-14:50	Dr. Claudiu Mortan (Institute for Photovoltaics of the University of Stuttgart)	A Platform for Characterizing Perovskite Solar Cells in the Stratosphere and their Requirements for Future Outer-Space Missions
14:50-15:40	Dr. Felix Lang (Universität Potsdam Institut für Physik und Astronomie)	Novel Radiation Tolerant Space PV: From Perovskite Single to Multijunctions

15:40-16:10	Break
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**Session 4**

<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
16:10-17:00	Dr. Narges Yaghoobi Nia (University of Rome Tor Vergata)	Perovskite Photovoltaics for Space Economy: Challenges and Benchmarks

17:00-17:20	Round Table Discussion
17:20-17:30	Closing