

PERSONAL INFORMATION Marius Horia Paulescu

 Faculty of Physics
 West University of Timisoara, Romania

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Sex Male | Date of birth Nationality Romanian

WORK EXPERIENCE

- | | |
|----------------|--|
| 2017 – Present | Professor
Faculty of Physics, West University of Timisoara
▪ Numerical methods in physics, Modeling and forecasting of solar radiation, Photovoltaics |
| 2009 – 2017 | Associate professor
Faculty of Physics, West University of Timisoara
▪ Numerical methods in physics, Modeling and forecasting of solar radiation, Photovoltaics |
| 2004 - 2009 | Lecturer
Faculty of Physics, West University of Timisoara
▪ Numerical methods in physics. Semiconductor physics, Photovoltaics |
| 1995 -2004 | Assistant
Faculty of Physics, West University of Timisoara
▪ Electronics, Semiconductor physics, Photovoltaics |

EDUCATION AND TRAINING

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|-----------|---|
| 2016 | Habilitation in Physics
Faculty of Physics, West University of Timisoara
▪ Thesis: <i>Estimation and forecasting of the PV systems output power</i> |
| 2001-2004 | PhD
Faculty of Physics, West University of Timisoara
▪ PhD thesis: <i>Measurement and estimation of solar energy, Photovoltaics applications.</i>
PhD supervisor: Prof. dr. Ioan Hrianca. |
| 1986-1991 | BSc
Faculty of Physics, West University of Timisoara
▪ Theoretical Physics. |

PERSONAL SKILLS

Mother tongue(s) Romanian
 Other language(s) English

- Publications**
- 120+ scientific papers published in peer-reviewed journals or communicated to international conferences from which 95 are indexed by WoS;
 - A book: M. Paulescu, E. Paulescu, P. Gravila, V. Badescu, *Weather Modeling and Forecasting of PV Systems Operations*, Springer, London, 2013);
 - Editor of *Physics of Nanostructured Solar Cells*, (V. Badescu, M. Paulescu, Eds) Nova Science, New York, 2010); Editor of Spectral characteristics of solar radiation (V. Badescu, M. Paulescu, eds) Elsevier, 2025.
 - 8 chapters published in edited books (Springer, Elsevier, Wiley, Symmetria Athena, Nova Science New York)
 - 1200+ citations (without self-citations), according to WoS;
 - Hirsch index $h = 22$
 - A full list of publications is available online at <http://solar.physics.uvt.ro/~marius>

- Research projects**
- PN-III-P2-2.1-PED-2021-0544. Microrețea hibridă cu surse regenerabile de energie și cost de operare optimizat, ce integrează metode de management energetic bazate pe predicția puterii solare (HELioS) Partner leader. 2021-2024.
 - PN-III-P2-2.1-PED-2019-3942, All-sky imager-based solar power forecasting system for smart-grid operation. Project director, 2020-2022.
 - COST Action CA16235- PEARL PV, Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data. National Representative in the Management Committee. 2017-2022.
 - PN-III-P2-2.1-PED-2016-0592, PV Power Forecasting Toolkit for Smart Grid Management. Project director. 2017-2018.
 - UVT30/2017 Energy production estimation of the PV plant Brestovat. Project director
 - 32-ELI/01.09.2016 ELICRYS-2 .RO-CERN-Programme ELI-NP Domain, Physical and numerical experiments for studying LPA and their interaction with crystalline materials, Researcher, 2016-2019
 - E13/2014 ELICRYS. RO-CERN-Programme ELI-NP Domain, Effects of high-energy radiation on some fluorite and semiconductor crystals, Researcher, 2014-2016
 - COST Action ES1002 WIRE: Weather Intelligence for Renewable Energies (EU-RTD Program, Researcher în WG-1: Forecasting the output power of PV plants, 2010-2014
 - UVT 32/2010 – Energy supplied by a PV system in Tg. Jiu area. Project director
 - PN II 21039/2007 - PASOR: Solutions for solar architecture BIPV, Scientific director of the project, 2007-2010
 - CEEX 247/1/2006 - NANOPV. Increasing the nanostructured solar cells efficiency, Partner leader, 2006-2009
 - CEEX-23/2006, CFN-DYE, Development foto-electro-chemical solar cells based on TIO₂ and dyes, Researcher, 2006-2009
 - CEEX 6105/2005, QUANET, Simulation of quantum semiconductor devices, Researcher, 2005-2008

ADDITIONAL INFORMATION

- Awards**
- Romanian Academy award "Anghel Saligny" in 2015
 - West University of Timisoara award "Mircea Zaganescu" in 2017

- Membership in representative bodies**
- Renewable Energy Commission of the Romanian Academy
 - Editorial Board of Atmosphere (IF = 2.5)

- Membership in professional organizations**
- ISES – International Solar Energy Society
 - Romanian Physical Society