

Name Mario Antonio Cucumo

Role

Full Professor

Short CV

Prof. Eng. Mario A. Cucumo, born in Torano Castello (CS) on 12/06/1954, he graduated with honors in Industrial Engineering Technology (majoring in Mechanics) at the University of Calabria October 10, 1979.

He became Assistant Professor of Applied Physics at the Faculty of Engineering of the University of Calabria from 12/16/1983 to 31/10/1992.

He covered the role of Associate Professor at the same university as Professor of Thermotecnics, from 1/11/1992 to 31/10/1995, and as a professor of Heat Transfer, from 1/11/1995 to 19/12/2003.

He has been Full Professor of Applied Physics at the University of Calabria from 20/12/2003. Since September 26, 2013 he has been the Coordinator of the Study Course in Energy Engineering in the Department of Mechanical, Energetics and Management Engineering (DIMEG) of the University of Calabria.

Selected Publications

M. Cucumo, V. Ferraro, V. Marinelli, S. Cucumo, D. Cucumo, LCA Analysis of a Solar Concentration System for the Micro-Chp and Comparison with a PV Plant, International Journal of Heat and Technology 30/1 (2012) 63-68.

M. Cucumo, V. Ferraro, D. Kaliakatsos, V. Marinelli, A Calculation Model for a Thermodynamic Analysis of Solar Plants with Parabolic Collectors Cooled by Air Evolving in an Open Joule-Brayton Cycle, International Journal of Heat and Technology 31/2 (2013) 127-134.

M. Cucumo, V. Ferraro, D. Kaliakatsos, V. Marinelli, Simulation of the Thermal Behaviour of Buildings Equipped with Low-Emissivity Glazed Components. A performance Analysis, International Journal of Heat and Technology 31/2 (2013) 111-118.

M. Cucumo, V. Ferraro, D. Kaliakatsos, V. Marinelli, Theoretical and Experimental Analysis of the Performances of a Heat Sink with Vertical Orientation in Natural Convection, International Journal of Energy and Environmental Engineering, SPRINGER Open (2014) 1,11.

D. Kaliakatsos, M. Cucumo, V. Ferraro, M. Mele, S. Cucumo, A. Miele, Performance of Dish-Stirling CSP System with Dislocated Engine, International Journal of Energy and Environmental Engineering, SPRINGER Open (2015) 1,16.

M. Cucumo, V. Ferraro, D. Kaliakatsos, M. Mele, Analysis of the Performances of a Dish-Stirling System Equipped with Hot Chamber, International Journal of Heat and Technology 33/4 (2015) 125-136.

Lines of research

- Emergency cooling of nuclear reactors;
- Building energy and heat exchange;
- Passive systems for heating and cooling of buildings;
- Earth to air heat exchangers;
- Solar Engineering and plant components;
- Outdoor dynamic test of the performances of thermal solar collectors;
- CSP solar systems, Dish-Stirling and Dish-Boiler systems;
- LCA analysis of components and solar systems;
- Natural lighting;
- Development of innovative heat exchangers.