



Antonella Priarone

Researcher

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Education and training

2001

Degree in Mechanical Engineering (five year curriculum)

Effetto dell'orientazione superficiale sullo scambio termico nell'ebollizione nucleata di fluidi dielettrici - 110/110 summa cum laude

University of Genoa

2004

PhD in Mechanical Engineering - Applied Physics curriculum

Caratteristiche dello scambio termico di fluidi dielettrici nella ebollizione stagnante e convettiva in canali di piccole dimensioni

University of Genoa

Academic experience

2005 - 2008

Post PhD Position

University of Genoa

2008 - 2009

Post PhD Position

University of Bologna

Language skills

English

Independent

French

Proficient

DALF

Teaching activity

Heat Transfer (6 ECTS) and Energy and Buildings (6 ECTS) in the M.Sc. in "Energy Engineering" (Savona Campus)

Research interests

- A. Priarone, "Effect of surface orientation on nucleate boiling and critical heat flux of dielectric fluids", Int. J. of Thermal Sciences 44,

822-831 (2005).

- M. Fossa, D. Dalla Pietà, A. Priarone, "Measurement of flow parameters in solid-liquid slugging fluidised beds", *Flow Measurement and Instrumentation* 18, 12-17 (2007).
- M. Misale, G. Guglielmini, A. Priarone, "HFE-7100 pool boiling heat transfer and critical heat flux in inclined narrow spaces", *Int. J. of Refrigeration* 32, 235-245 (2009).
- E. Zanchini, S. Lazzari, A. Priarone, "Improving the thermal performance of coaxial borehole heat exchangers", *Energy* 35, 657-666 (2010).
- E. Zanchini, S. Lazzari, A. Priarone, "Effects of flow direction and thermal short-circuiting on the performance of small coaxial ground heat exchangers", *Renewable Energy* 35, 1255-1265 (2010).
- S. Lazzari, A. Priarone, E. Zanchini, "Long-term performance of borehole heat exchanger fields with negligible groundwater movement", *Energy* 35, 4966-4974 (2010).
- M. Misale, G. Guglielmini, A. Priarone, "Nucleate boiling and critical heat flux of HFE-7100 in horizontal narrow spaces", *Exp. Thermal and Fluid Science, Special Issue: Boiling Conference 2009* 35, 772-779 (2011).
- E. Zanchini, S. Lazzari, A. Priarone, 'Long-term performance of large borehole heat exchanger fields with unbalanced seasonal loads and groundwater flow', *Energy* 38, 66-77 (2012).
- A. Priarone, M. Fossa, 'Modelling the ground volume for numerically generating singleborehole heat exchanger response factors according to the cylindrical source approach', *Geothermics* 58 (2015) 32-38.
- A. Priarone, M. Fossa, "Temperature response factors at different boundary conditions for modelling the single borehole heat exchanger", *Applied Thermal Engineering* 103 (2016) 934-944.
- A. Priarone, M. Fossa, E. Paietta, D. Rolando, 'Energy demand hourly simulations and energy saving strategies in greenhouses for the Mediterranean climate', *IOP Conf. Series: Journal of Physics: Conf. Series* 796 (2017) 012027.
- M. Fossa, D. Rolando, A. Priarone, 'An Investigation on the Effects of Different Time Resolutions in the Design and Simulation of BHE Fields', *IGSHPA Technical/Research Conference and Expo, Denver March 14-16, 2017*.
- M. Fossa, B. Stutz, A. Priarone, A. Coperey, 'Thermal Response of helix ground heat exchangers', *IGSHPA Technical/Research Conference and Expo, Denver March 14-16, 2017*.
- A. Priarone, M. Fossa, 'Transient thermal resistance of borehole heat exchangers for hourly simulations of geothermal heat pumps systems', *IGSHPA Technical/Research Conference and Expo, Denver March 14-16, 2017*.
- F. Silenzi, A. Priarone, M. Fossa, 'Energy demand modeling and forecast of Monoblocco Building at the city hospital of Genova according to different retrofit scenarios', *AIGE-IIETA Congress, 12-13 June 2017, Genova*.