Carlo Antonini, PhD

Associate professor

Department of Materials Science - University of Milano-Bicocca

Via Roberto Cozzi, 55, 20125 Milano MI, Italy

phone: +39 02 6448 5188

email: carlo.antonini@unimib.it

websites: en.unimib.it/carlo-antonini, sefilab.mater.unimib.it

EDUCATION

2008-2011	PhD, Industrial Engineering, Technologies for Energy and Environment,
	University of Bergamo, Italy. Thesis: "Superhydrophobicity as a strategy against icing".
	Visiting PhD student at University of Alberta, Canada (2008).
2004-2007	MSc, Aeronautical Engineering (major: Aerodynamics), Politecnico di Milano, Italy.
	Thesis: "Prediction of the dynamic response of pipe systems" (105/110).

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Erasmus exchange student, RWTH Aachen, Germany (2005).

2001-2004 BSc, Aerospace Engineering, Politecnico di Milano, Italy.

Thesis: "Introduction to glider design: aerodynamic design" (110/110 cum laude).

RESEARCH AND MANAGEMENT APPOINTMENTS

since 2021	Associate professor, Department of Materials Science, University of Milano-Bicocca, Milan, Italy. Founder and director of SEFI Lab, Surface Engineering and Fluid Interfaces Laboratory.
since 2017	Scientific Advisor, ApiTech. Innovative start-up, providing support in R&I for SMEs associated to Api Lecco, Italy.
2018-2021	Tenure-track researcher, Department of Materials Science, University of Milano-Bicocca, Milan, Italy.
2015-2018	Scientist, EMPA - Swiss Federal Laboratories for Materials Science and Technology (ETH Domain), Dübendorf, Switzerland.
2012-2014	Marie Curie Fellow (Post-doc), Laboratory of Thermodynamics in Emerging Technologies, Department of Mechanical and Process Engineering, ETH Zurich, Switzerland.
2011-2012	Post-doc and Group Leader for the area "drops and spray", Thermal Physics Laboratory, Department of Industrial Engineering, Università degli Studi di Bergamo, Italy.
2006	Intern, Performance Department, Rolls-Royce plc, Derby, UK.

GRANT SUPPORT, FELLOWSHIPS AND AWARDS

2023-2026	Funding for a PhD project on polysaccharide-water-ice interaction (eq. value 70 k€).
2022-2025	Funding for an executive PhD project on Wasterwater treatment for domestic appliances (eq. value 70 k€), ROLD.
2022-2025	Funding for a PhD project on biopolymers for artificial eye drops (70 k€), Istituto Farmaco Biologico Sperimentale Srl and national funding.
2022-2024	"Fondo Ateneo Quota Competitiva" (25 k€), UNIMIB internal funding.
2021-2024	Coordinator MSC-ITN proposal, SURFICE "Smart surface design for efficient ice protection and control". Overall budget: 3.5 M€ (UNIMIB unit: 780 k€).
2021-2025	Supervisor of a post-doc project on "Atmospheric water for harvesting" (100 k€), UNIMIB internal funding.

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20	19-2022	Funding for a PhD project on Metal additive manufacturing (63 k€), Regione Lombardia- Enea.
20	19-2022	"Fondo Ateneo Quota Competitiva" (25 k€), UNIMIB internal funding.
20	19-2024	Support to SMEs (150 k€), ApiTech.
20	18-2021	Rita Levi Montalcini Fellowship for the project: "REPHOB: REsilient superhydroPHOBic surfaces under adverse conditions" (230 k€), MIUR.
20	17-2021	Visiting Research Grant from Xi'an Jiaotong University, China, for two projects: "Characterization and optimization of lightweight cellulose foams for oil/water separation by drop impact tests" and "Efficient separation of compound drops for clean water" (17 k).
20	12 – 2014	Marie Curie Fellowship, funded by ERC (192 k€).

SCIENTIFIC PUBLICATIONS

I am the author of 50+ peer-review international journal publications, 2 book chapters on anti-icing surfaces, 1 patent (and 2 submitted patents), and several conference proceeding and presentations. An up-to-date list of refereed journal publications is available here:

Google Scholar: http://scholar.google.ch/citations?user=2CKjmrcAAAAJ&hl=en
Scopus: http://www.scopus.com/authid/detail.url?authorId=37119842300

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