

CURRICULUM VITAE

Matteo FASANO

Matteo Fasano is an Assistant Professor and co-Director of the Multi-Scale Modelling Laboratory – SMaLL at Politecnico di Torino. He completed the Ph.D. in Energy Engineering and Nanotechnology at Politecnico di Torino in 2015. During doctoral studies, Matteo was one-year research fellow at the Department of Nanomedicine of the Houston Methodist Research Institute (Houston, TX-USA) and visiting researcher at the Massachusetts Institute of Technology (Cambridge, MA-USA). He also collaborated with scientists from Imperial College (London, UK) and University of Minnesota (Minneapolis, MN-USA). His doctoral thesis was awarded as the best Ph.D. research by the Energy Department of Politecnico di Torino in 2015 and by the ENI Award in 2017, which is considered as the most prestigious prize for young scientists in the energy field. Since 2014, he has (co-) authored over 50 publications, including highly cited articles on Nature Communications, Nature Sustainability and Science Advances. He has been active for more than ten years in modelling heat and mass transfer in a broad variety of applications. In particular, bio/nanotechnologies, colloidal suspensions, polymer-based composites and nanoporous materials for thermal energy storage have been studied by various approaches, including atomistic (molecular dynamics, Monte Carlo), mesoscopic (coarse-grained) and continuum modelling techniques, as well as machine learning tools. Dr. Fasano is currently involved in three European and two national research projects dealing with multiscale simulations of nanostructured materials for applications spanning from the environmental to the energy field.

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