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Her main research interests include: design and operation optimization of DER in the context of local energy systems through multi-objective approach, bidding strategies of DER aggregators for participation to the various market options, demand response, multi-carrier energy systems modeling and optimization, and power systems design and control.

She is representative of ENEA within the European Energy Research Alliance – Joint Programme on Smart Grids and within Mission Innovation, Innovation Challenge 1 on Smart Grids. Currently, she is project coordinator of the Horizon2020 project eNeuron on the optimization of local integrated energy communities, and manages several European and National projects on the topic of multi-carrier energy systems optimization and control.

Editor of three books on the topic of multi-carrier energy systems, and chair in scientific conferences, she is author of more than 80 scientific contributions, most of them published in international journals and proceedings of international conferences, and awarded as highly-cited papers.