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Her research field is fatigue and fracture mechanics of traditional and innovative materials at different length scales.

She received 7 Scientific International Awards. She is listed in ranking of the most quoted and authoritative scientists in the world - World's Top 2% Scientists - published by researchers at Stanford University for the 2020. She was the chairperson of 3 International Conferences, keynote speakers of 6 International Conferences. She was editor of 14 Special Issues of International Journals. She is committee member of 6 international journals with peer-review and Editorial Assistant of an international journal with peer-review. She is author of more than 140 publications on international peer-reviewed journal with impact factor.

She is the Coordinator of the Parma University Research Unit related to PRIN 2020 “*Opportunities and challenges of nanotechnology in advanced and green construction materials*” Prot. 2020EBLPLS, Italian Ministry of University and Research and Principal Investigator of the Project PRIN 2022 “*Preparation and performance of PCs with nanostructures for civil engineering projects*” Prot. 2022X5L45T, Italian Ministry of University and Research.