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His research activity has been mainly focused on scanning probe microscopy techniques for the characterization of physical parameters of nanomaterials at the nanoscale. In particular, he is expert in mechanical and magnetic characterizations using atomic force microscopy based techniques.

Author of more publications in international peer-reviewed journals and books. Co-editor of a book on acoustic scanning probe microscopy and of journal special issues and proceedings books.

Presenting or contributing author of oral communications or posters at international conferences.

Reviewer for journals focused on materials science, nanotechnology, and microscopy. He is member of the European Microscopy Society and of the Società Italiana di Scienze Microscopiche.