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His research concerns the modelling and simulation of geophysical flows at micro and mesoscale including numerical models of aerosols and gases.

In particular, current research activity is oriented toward the modelling and simulation of natural aerosol and their feedback with the meteorological system. Among the natural aerosol special interested is devoted to mineral dust, volcanic ash and sea spray particles. He was involved as PI and participant, in several projects on national and international context and authored more than 90 publications on ISI scientific Journals.