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His main research lines are related to waste to energy and resource technologies, bioenergy, biorefinery concepts and bioremediation processes. He has been involved as principal researcher in several R&D projects, particularly in topics focusing on biodiesel, biogas, biomass to energy, biochar and fly ashes valorization.

In addition, he serves as associate editor of Waste Management & Research, the ISI scientific journal of ISWA, the International Solid Waste Association. Moreover, he has been serving as reviewer of more than 10 ISI scientific journals including Environmental Science & Technology, Bioresource Technology, Energy & Fuels and Chemical Engineering Journal, among others.

As professor, he has been invited as visiting professor and researcher in Universities from Austria, Brazil, Canada, Germany, Spain and Sweden, as well as external examiner in University of Malaya, Malaysia.

He is currently full professor in the Department of Chemical Engineering and Director of Innovation and Technology Transfer at the University of La Frontera, Temuco, Chile.