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Dr. Vladimir is full professor at the Department of Chemical and Food Engineering at UFSC (Federal University of Santa Catarina, Brazil) and works at Transfertech as Director of R&D. He currently develops research in the following areas: encapsulation and release of bioactive compounds in nanostructures, enzymatic production of biopolymers, activity/stability of enzymes in pressurized media, enzymatic reactions in pressurized fluids and ultrasound, inactivation of microorganisms and cell disruption using pressurized fluids, alternative techniques for producing biodiesel (enzymatic, supercritical method, ultrasound), alternative processes of membrane separation, and process development in the presence of magnetic fields. He has published over 350 research articles in peer-reviewed journals and supervised more than 60 master and 30 doctoral students and has participated in several research projects with both, public and private funding.