

SHORT BIO – Prof. J. Esteban López-Aguilar

J. Esteban López-Aguilar is a Professor at the Department of Chemical Engineering, Faculty of Chemistry, National Autonomous University of Mexico (UNAM), where he has been a full-time staff member since 2017. He graduated from FQ-UNAM with a Bachelor's and Masters degree in Chemical Engineering, followed by PhD studies in Chemical Engineering at Swansea University, Wales, United Kingdom, institution where he also carried out postdoctoral activities at the Zienkiewicz Center for Computational Engineering and had an academic position in the Faculty of Engineering. He has been distinguished with the Level 1 in the National System of Researchers, CONAHCYT, MX-Government. He belongs to various scientific societies at national and international levels, including his Associate Membership at the Institute of Non-Newtonian Fluid Mechanics (United Kingdom), The Society of Rheology (United States), The European Society of Rheology, The British Society of Rheology (United Kingdom), The Brazilian Society of Rheology (Brazil) and Mexican Society of Rheology. He is a member of the board of the Sociedad Polimérica de México (2024-2025), where he serves as Secretary of Academic Affairs. Recently, he has participated in the organisation of conferences and workshops, including the XXth International Workshop on Numerical Methods for Non-Newtonian Flows (Oaxaca, 2021, MX) and the 1st and 2nd Symposia on Mathematics and Polymers (in collaboration with CIQA, Saltillo, Coahuila, MX, 2023 and 2024), and he has been a guest editor in the Journal of Non-Newtonian Fluid Mechanics. His research interests are reflected in 37 articles published in journals of international circulation and more than 40 oral talks at national and international conferences, with focus on Non-Newtonian Fluid Mechanics, with special emphasis on computational rheology and constitutive modeling of complex fluids and soft matter, such as viscoelastic surfactant solutions, melts and polymer solutions, suspensions and biofluids.