

Members Overview

To view a member's profile, click on their name.

[Go back to directory.](#)

[Add to Address Book.](#)



Work Email: adolfo.vazquez@uam.es

Website: [Click Here](#)

ADOLFO VÁZQUEZ QUESADA Postdoctoral
Researcher [Statistical Physics of Complex
Liquids and Biophysics](#)

Work Module 5, Office 503, 5th floor.

[Biographical Info](#)

[Honors and Awards](#)

[Research Interests](#)

[Relevant/Recent Publications](#)

Shear thickening of a non-colloidal suspension with a viscoelastic matrix. A. Vázquez-Quesada, P. Español, R.I. Tanner & M. Ellero, *Journal of Fluid Mechanics*, 880, 1070-1094 (2019). [[URL](#)]

Normal lubrication force between spherical particles immersed in a shear-thickening fluid, A. Vázquez-Quesada, N. J. Wagner, and M. Ellero, *Physics of Fluids* 30, 123102, (2018). [[URL](#)]

Apparent slip mechanism between two spheres based on solvent rheology: Theory and implication for the shear thinning of non-Brownian suspensions, A. Vázquez-Quesada, Pep Español, and M. Ellero, *Phys. Rev. Fluids* 3, 123302, (2018). [[URL](#)]

SPH modeling and simulation of spherical particles interacting in a viscoelastic matrix, A. Vázquez-Quesada, and M. Ellero, *Physics of Fluids* 29, 121609, (2017). [[URL](#)]

Planar channel flow of a discontinuous shear-thickening model fluid: Theory and simulation, A. Vázquez-Quesada, N.J. Wagner, M. Ellero, *Physics of Fluids*, 29(10), pp 103104, (2017). [[URL](#)]

Investigating the causes of shear-thinning in non-colloidal suspensions: Experiments and simulations, A. Vázquez-Quesada, A. Mahmud, S. Dai, M. Ellero, R.I. Tanner, *Journal of Non-Newtonian fluid Mechanics*, 248, pp 1-7, (2017). [[URL](#)]

Theory and simulation of the dynamics, deformation, and breakup of a chain of superparamagnetic beads under a rotating magnetic field, A. Vázquez-Quesada, T. Franke, M. Ellero, *Physics of Fluids*, 29(3), pp 032006, (2017). [\[URL\]](#)

Shear Thinning of Noncolloidal Suspensions, Adolfo Vázquez-Quesada, Roger I. Tanner, and Marco Ellero, *Phys. Rev. Lett.* 117, 108001, (2016). [\[URL\]](#)

Analytical solution for the lubrication force between two spheres in a bi-viscous fluid, A. Vázquez-Quesada, M. Ellero, *Physics of Fluids*, 28(7), pp 073101, (2016). [\[URL\]](#)

Rheology and microstructure of non-colloidal suspensions under shear studied with Smoothed Particle Hydrodynamics, A. Vázquez-Quesada, M. Ellero, *Journal of Non-Newtonian Fluid Mechanics*, 233, pp 37-47, (2016). [\[URL\]](#)

[Add to Address Book.](#) [UPDATED 2 MONTHS AGO.](#)

