J Esteban LÃ³pez-Aguilar

List of Publications by Year
in descending order

23	244	933447 10	996975 15
papers	citations	h-index	g-index

23	23	23	132
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new constitutive model for worm-like micellar systems â€“ Numerical simulation of confined contractionâ€“expansion flows. Journal of Non-Newtonian Fluid Mechanics, 2014, 204, 7-21.	2.4	27
2	High-Weissenberg predictions for micellar fluids in contractionâ€“expansion flows. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 190-208.	2.4	27
3	Numerical vs experimental pressure drops for Boger fluids in sharp-corner contraction flow. Physics of Fluids, 2016, 28, 103104.	4.0	22
4	Convoluted models and high-Weissenberg predictions for micellar thixotropic fluids in contractionâ€“expansion flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 232, 55-66.	2.4	17
5	Predicting large experimental excess pressure drops for Boger fluids in contractionâ€“expansion flow. Journal of Non-Newtonian Fluid Mechanics, 2016, 230, 43-67.	2.4	17
6	Numerical modelling of thixotropic and viscoelastoplastic materials in complex flows. Rheologica Acta, 2015, 54, 307-325.	2.4	16
7	Pressure-drop and kinematics of viscoelastic flow through an axisymmetric contractionâ€“expansion geometry with various contraction-ratios. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 260-271.	2.4	14
8	Contraction-ratio variation and prediction of large experimental pressure-drops in sharp-corner circular contraction-expansionsâ€“Boger fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 237, 39-53.	2.4	12
9	On the use of continuous spectrum and discrete-mode differential models to predict contraction-flow pressure drops for Boger fluids. Physics of Fluids, 2017, 29, .	4.0	12
10	Predictions for circular contraction-expansion flows with viscoelastoplastic & thixotropic fluids. Journal of Non-Newtonian Fluid Mechanics, 2018, 261, 188-210.	2.4	11
11	Modeling Assessment of Microemulsion Polymerization. Industrial & Engineering Chemistry Research, 2008, 47, 5924-5933.	3.7	8
12	On modelling viscoelastic flow through abrupt circular 8:1 contractions â€“ matching experimental pressure-drops and vortex structures. Journal of Non-Newtonian Fluid Mechanics, 2018, 251, 28-42.	2.4	8
13	Enhanced pressure drop, planar contraction flows and continuous spectrum models. Journal of Non-Newtonian Fluid Mechanics, 2019, 273, 104184.	2.4	8
14	Computational Predictions for Boger Fluids and Circular Contraction Flow under Various Aspect Ratios. Fluids, 2020, 5, 85.	1.7	8
15	Microemulsion Polymerization Modeling Based on the Experimental Conversion Trend and its Derivative. Macromolecular Symposia, 2008, 271, 94-98.	0.7	7
16	A comparative numerical study of time-dependent structured fluids in complex flows. Rheologica Acta, 2016, 55, 197-214.	2.4	7
17	Modified Bautistaâ€“Manero (MBM) modelling for hyperbolic contractionâ€“expansion flows. Rheologica Acta, 2015, 54, 869-885.	2.4	6
18	Main events occurring in styrene microemulsion polymerization. Journal of Applied Polymer Science, 2015, 132, .	2.6	6

#	Article	IF	Citations
19	Revisiting the Floryâ€“Rehner equation: taking a closer look at the Floryâ€“Huggins interaction parameter and its functionality with temperature and concentration with NIPA as a case example. Polymer Bulletin, 2022, 79, 6709-6732.	3.3	6
20	A computational extensional rheology study of two biofluid systems. Rheologica Acta, 2015, 54, 287-305.	2.4	3
21	Dissipative structures in shear-thickening complex fluids. Physics of Fluids, 2018, 30, 114104.	4.0	2
22	A Simple-to-Implement Simulator for the Reactive Extrusion of Poly(Lactic Acid) in a Corotating Uniform Twin-Screw Extruder. Advances in Materials Science and Engineering, 2015, 2015, 1-13.	1.8	0
23	Numerical simulation of viscoelastic & thixo-viscoelastoplastic complex flows at highly non-linear regimes. , 2022, 3, 100041.		0