

J Esteban LÃ³pez-Aguilar

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

244
citations

933447

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docs citations

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132
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Polymer Bulletin</i> , 2022, 79, 6709-6732.	3.3	6
2	Numerical simulation of viscoelastic & thixo-viscoelastoplastic complex flows at highly non-linear regimes. , 2022, 3, 100041.		0
3	Computational Predictions for Boger Fluids and Circular Contraction Flow under Various Aspect Ratios. <i>Fluids</i> , 2020, 5, 85.	1.7	8
4	Enhanced pressure drop, planar contraction flows and continuous spectrum models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 273, 104184.	2.4	8
5	On modelling viscoelastic flow through abrupt circular 8:1 contractions â€™ matching experimental pressure-drops and vortex structures. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 251, 28-42.	2.4	8
6	Dissipative structures in shear-thickening complex fluids. <i>Physics of Fluids</i> , 2018, 30, 114104.	4.0	2
7	Predictions for circular contraction-expansion flows with viscoelastoplastic & thixotropic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 261, 188-210.	2.4	11
8	On the use of continuous spectrum and discrete-mode differential models to predict contraction-flow pressure drops for Boger fluids. <i>Physics of Fluids</i> , 2017, 29, .	4.0	12
9	Numerical vs experimental pressure drops for Boger fluids in sharp-corner contraction flow. <i>Physics of Fluids</i> , 2016, 28, 103104.	4.0	22
10	Contraction-ratio variation and prediction of large experimental pressure-drops in sharp-corner circular contraction-expansionsâ€™Boger fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 237, 39-53.	2.4	12
11	Convuluted models and high-Weissenberg predictions for micellar thixotropic fluids in contractionâ€™expansion flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 232, 55-66.	2.4	17
12	Predicting large experimental excess pressure drops for Boger fluids in contractionâ€™expansion flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 230, 43-67.	2.4	17
13	A comparative numerical study of time-dependent structured fluids in complex flows. <i>Rheologica Acta</i> , 2016, 55, 197-214.	2.4	7
14	A Simple-to-Implement Simulator for the Reactive Extrusion of Poly(Lactic Acid) in a Corotating Uniform Twin-Screw Extruder. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-13.	1.8	0
15	Pressure-drop and kinematics of viscoelastic flow through an axisymmetric contractionâ€™expansion geometry with various contraction-ratios. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 222, 260-271.	2.4	14
16	High-Weissenberg predictions for micellar fluids in contractionâ€™expansion flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 222, 190-208.	2.4	27
17	Modified Bautistaâ€™Manero (MBM) modelling for hyperbolic contractionâ€™expansion flows. <i>Rheologica Acta</i> , 2015, 54, 869-885.	2.4	6
18	A computational extensional rheology study of two biofluid systems. <i>Rheologica Acta</i> , 2015, 54, 287-305.	2.4	3

#	ARTICLE	IF	CITATIONS
19	Main events occurring in styrene microemulsion polymerization. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
20	Numerical modelling of thixotropic and viscoelastoplastic materials in complex flows. Rheologica Acta, 2015, 54, 307-325.	2.4	16
21	A new constitutive model for worm-like micellar systems â€œ Numerical simulation of confined contractionâ€œexpansion flows. Journal of Non-Newtonian Fluid Mechanics, 2014, 204, 7-21.	2.4	27
22	Modeling Assessment of Microemulsion Polymerization. Industrial & Engineering Chemistry Research, 2008, 47, 5924-5933.	3.7	8
23	Microemulsion Polymerization Modeling Based on the Experimental Conversion Trend and its Derivative. Macromolecular Symposia, 2008, 271, 94-98.	0.7	7