Luis L Ferràs

List of Publications by Year
in descending order

32 papers	493 citations	840119 11 h-index	676716 22 g-index
33 all docs	33 docs citations	33 times ranked	417 citing authors

#	Article	IF	Citations
1	Analytical solutions for Newtonian and inelastic non-Newtonian flows with wall slip. Journal of Non-Newtonian Fluid Mechanics, 2012, 175-176, 76-88.	1.0	84
2	Analytical solutions for channel flows of Phan-Thienâ€"Tanner and Giesekus fluids under slip. Journal of Non-Newtonian Fluid Mechanics, 2012, 171-172, 97-105.	1.0	58
3	Electro-osmotic and pressure-driven flow of viscoelastic fluids in microchannels: Analytical and semi-analytical solutions. Physics of Fluids, 2016, 28, .	1.6	49
4	Numerical solution for diffusion equations with distributed order in time using a Chebyshev collocation method. Applied Numerical Mathematics, 2017, 114, 108-123.	1.2	46
5	Analytical and numerical study of the electro-osmotic annular flow of viscoelastic fluids. Journal of Colloid and Interface Science, 2014, 420, 152-157.	5.0	43
6	Pressure-driven electrokinetic slip flows of viscoelastic fluids in hydrophobic microchannels. Microfluidics and Nanofluidics, 2014, 16, 1131-1142.	1.0	34
7	Newtonian and viscoelastic fluid flows through an abrupt 1:4 expansion with slip boundary conditions. Physics of Fluids, 2020, 32, .	1.6	25
8	A numerical and theoretical study on viscoelastic fluid slip flows. Physics of Fluids, 2017, 29, .	1.6	20
9	Annular flow of viscoelastic fluids: Analytical and numerical solutions. Journal of Non-Newtonian Fluid Mechanics, 2014, 212, 80-91.	1.0	18
10	Implementation of slip boundary conditions in the finite volume method: new techniques. International Journal for Numerical Methods in Fluids, 2013, 72, 724-747.	0.9	16
11	Hydrodynamic Entrance Length for Laminar Flow in Microchannels with Rectangular Cross Section. Fluids, 2021, 6, 240.	0.8	15
12	Semi-Analytical Solutions for the Poiseuilleâ€"Couette Flow of a Generalised Phan-Thienâ€"Tanner Fluid. Fluids, 2019, 4, 129.	0.8	12
13	Design Guidelines to Balance the Flow Distribution in Complex Profile Extrusion Dies. International Polymer Processing, 2017, 32, 58-71.	0.3	11
14	Development Length in Planar Channel Flows of Newtonian Fluids Under the Influence of Wall Slip. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, .	0.8	9
15	A study on mixed electro-osmotic/pressure-driven microchannel flows of a generalised Phan-Thienâ€"Tanner fluid. Journal of Engineering Mathematics, 2021, 127, 1.	0.6	8
16	A numerical and experimental study on weld lines formation and strength in extrusion. Polymer Engineering and Science, 2018, 58, 249-260.	1.5	7
17	Analytical and numerical studies for slip flows of a generalised Phanâ€"Thienâ€"Tanner fluid. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900183.	0.9	5
18	High-Order Methods for Systems of Fractional Ordinary Differential Equations and Their Application to Time-Fractional Diffusion Equations. Mathematics in Computer Science, 2021, 15, 535.	0.2	5

#	Article	IF	Citations
19	An Open-Source Framework for the Computer Aided Design of Complex Profile Extrusion Dies. International Polymer Processing, 2018, 33, 276-285.	0.3	5
20	Using the GPU to Design Complex Profile Extrusion Dies. International Polymer Processing, 2015, 30, 442-450.	0.3	4
21	A Numerical Method for the Solution of the Time-Fractional Diffusion Equation. Lecture Notes in Computer Science, 2014, , 117-131.	1.0	4
22	Flow Structures Identification through Proper Orthogonal Decomposition: The Flow around Two Distinct Cylinders. Fluids, 2021, 6, 384.	0.8	4
23	Dispersion of Graphite Nanoplates in Polypropylene by Melt Mixing: The Effects of Hydrodynamic Stresses and Residence Time. Polymers, 2021, 13, 102.	2.0	3
24	Development Length of Fluids Modelled by the gPTT Constitutive Differential Equation. Applied Sciences (Switzerland), 2021, 11, 10352.	1.3	2
25	Advanced Polymer Simulation and Processing. Polymers, 2022, 14, 2480.	2.0	2
26	Effect of polymer melt wall slip on the flow balance of profile extrusion dies. , 2013, , .		1
27	Object Detection with RetinaNet on Aerial Imagery: The Algarve Landscape. Lecture Notes in Computer Science, 2021, , 501-516.	1.0	1
28	Stable and Convergent Finite Difference Schemes on NonuniformTime Meshes for Distributed-Order Diffusion Equations. Mathematics, 2021, 9, 1975.	1.1	1
29	A generalised distributedâ€order Maxwell model. Mathematical Methods in the Applied Sciences, 2023, 46, 368-387.	1.2	1
30	Development and experimental assessment of a numerical modelling code to aid the design of profile extrusion cooling tools. AIP Conference Proceedings, 2017, , .	0.3	0
31	Optimisation Approach for Parameter Estimation of the Generalised PTT Viscoelastic Model. Lecture Notes in Computer Science, 2021, , 481-494.	1.0	0
32	Numerical study of hydrodynamic resistance on a sportive sprint hull. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2021, 42, 131.	0.3	0