

# Paulo de Souza Mendes

## List of Publications by Year in descending order

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77  
papers

2,198  
citations

218381

26  
h-index

243296

44  
g-index

77  
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77  
docs citations

77  
times ranked

1288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Displacement flow of yield stress materials in annular spaces of variable cross section. Journal of Petroleum Science and Engineering, 2022, 208, 109614.	2.1	7
2	Recent developments on yield stress materials. , 2022, 2, 100021.		0
3	Flow instabilities in fluid displacement through enlarged regions in annular ducts. Journal of Non-Newtonian Fluid Mechanics, 2022, 305, 104834.	1.0	2
4	Startup flow of gelled waxy crude oils in pipelines: The role of volume shrinkage. Fuel, 2021, 288, 119726.	3.4	27
5	Microscopic phenomena inferred from the rheological analysis of an emulsion. Physics of Fluids, 2021, 33, .	1.6	5
6	Thermodynamics and rheology of droplet aggregation of water-in-crude oil emulsion systems. Chemical Engineering Science, 2021, 245, 116955.	1.9	2
7	A Rheological Study of Parameters That Influence the Formation of Cyclopentane Hydrates. Energy & Fuels, 2021, 35, 18467-18477.	2.5	9
8	Production method of reference fluids intended for gravitational settlers' efficiency verification tests. Physics of Fluids, 2021, 33, 117105.	1.6	1
9	Analysis of the flow between parallel coaxial discs with relative axial motion and rotation. Journal of Non-Newtonian Fluid Mechanics, 2020, 285, 104404.	1.0	1
10	Is the von Mises criterion generally applicable to soft solids?. Soft Matter, 2020, 16, 7576-7584.	1.2	15
11	Flow of yield stress materials through annular abrupt expansion“contractions. Physics of Fluids, 2020, 32, .	1.6	10
12	Irreversible time dependence of gelled waxy crude oils: Flow experiments and modeling. Journal of Rheology, 2020, 64, 1237-1250.	1.3	16
13	Couette flows of a thixotropic yield-stress material: Performance of a novel fluidity-based constitutive model. Journal of Rheology, 2020, 64, 889-898.	1.3	9
14	Rheological material functions at yielding. Journal of Rheology, 2020, 64, 615-624.	1.3	19
15	Immiscible liquid-liquid displacement flows in a Hele-Shaw cell including shear thinning effects. Physics of Fluids, 2020, 32, .	1.6	26
16	Pressure-driven flows of a thixotropic viscoplastic material: Performance of a novel fluidity-based constitutive model. Physics of Fluids, 2020, 32, .	1.6	6
17	Rheological Characterization of Carbopol® Dispersions in Water and in Water/Glycerol Solutions. Fluids, 2019, 4, 3.	0.8	87
18	Irreversible time-dependent rheological behavior of cement slurries: Constitutive model and experiments. Journal of Rheology, 2019, 63, 247-262.	1.3	24

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19	Predicting the time-dependent irreversible rheological behavior of oil well cement slurries. <i>Journal of Petroleum Science and Engineering</i> , 2019, 178, 805-813.	2.1	8
20	A simple method to analyze materials under quasilinear large amplitude oscillatory shear flow (QL-LAOS). <i>Journal of Rheology</i> , 2019, 63, 305-317.	1.3	10
21	Time-dependent yield stress materials. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 43, 15-25.	3.4	42
22	On the pressure-driven flow of suspensions: Particle migration in apparent yield-stress fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 265, 92-98.	1.0	20
23	Startup flow of yield-stress non-thixotropic and thixotropic materials in a tube. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 437-445.	2.1	29
24	The yield stress tensor. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 261, 211-219.	1.0	43
25	Exchange flows between yield stress materials and Newtonian oils. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 261, 123-135.	1.0	16
26	Constructing a thixotropy model from rheological experiments. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 261, 1-8.	1.0	22
27	Bingham's model in the oil and gas industry. <i>Rheologica Acta</i> , 2017, 56, 259-282.	1.1	123
28	An appraisal of procedures to determine the flow curve of cement slurries. <i>Journal of Petroleum Science and Engineering</i> , 2017, 159, 617-623.	2.1	10
29	Rheology of Tetrahydrofuran Hydrate Slurries. <i>Energy &amp; Fuels</i> , 2017, 31, 14385-14392.	2.5	23
30	Exchange flows of two immiscible Newtonian liquids in a vertical tube: From falling drops to falling slugs. <i>Physics of Fluids</i> , 2017, 29, 067105.	1.6	2
31	Growth Kinetics and Mechanics of Hydrate Films by Interfacial Rheology. <i>Langmuir</i> , 2016, 32, 4203-4209.	1.6	21
32	On the pressure-driven flow of suspensions: Particle migration in shear sensitive liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 234, 178-187.	1.0	26
33	Performance of an elasto-viscoplastic model in some benchmark problems. <i>Mechanics of Time-Dependent Materials</i> , 2015, 19, 419-438.	2.3	4
34	Plane flow of thixotropic elasto-viscoplastic materials through a 1:4 sudden expansion. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 220, 162-174.	1.0	16
35	Model-based material functions for SAOS and LAOS analyses. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 215, 19-30.	1.0	33
36	Guidelines for the rheological characterization of biodiesel. <i>Fuel</i> , 2015, 140, 446-452.	3.4	19

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37	The quasilinear large-amplitude viscoelastic regime and its significance in the rheological characterization of soft matter. <i>Journal of Rheology</i> , 2014, 58, 537-561.	1.3	48
38	Flow of elasto-viscoplastic liquids through a planar expansion-contraction. <i>Rheologica Acta</i> , 2014, 53, 31-41.	1.1	13
39	A thermodynamic framework to model thixotropic materials. <i>International Journal of Non-Linear Mechanics</i> , 2013, 55, 48-54.	1.4	17
40	A unified approach to model elasto-viscoplastic thixotropic yield-stress materials and apparent yield-stress fluids. <i>Rheologica Acta</i> , 2013, 52, 673-694.	1.1	121
41	Flow of elasto-viscoplastic thixotropic liquids past a confined cylinder. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 193, 80-88.	1.0	20
42	Flow of yield-stress liquids through an axisymmetric abrupt expansion-contraction. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 201, 1-9.	1.0	16
43	Elastic and viscous effects on flow pattern of elasto-viscoplastic fluids in a cavity. <i>Mechanics Research Communications</i> , 2013, 53, 36-42.	1.0	5
44	Rheological Characterization of Waxy Crude Oils: Sample Preparation. <i>Energy &amp; Fuels</i> , 2012, 26, 2566-2577.	2.5	64
45	Startup flow of gelled crudes in pipelines. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 179-180, 23-31.	1.0	43
46	A critical overview of elasto-viscoplastic thixotropic modeling. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 187-188, 8-15.	1.0	103
47	Thixotropic elasto-viscoplastic model for structured fluids. <i>Soft Matter</i> , 2011, 7, 2471.	1.2	149
48	Gravity-driven azimuthal flow of a layer of thixotropic fluid on the inner surface of a horizontal tube. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 1004-1011.	1.0	3
49	A constitutive model for non-Newtonian materials based on the persistence-of-straining tensor. <i>Meccanica</i> , 2011, 46, 1035-1045.	1.2	22
50	Flow of elasto-viscoplastic liquids through an axisymmetric expansion-contraction. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 386-394.	1.0	23
51	Numerical approximations for flow of viscoplastic fluids in a lid-driven cavity. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 667-679.	1.0	37
52	Numerical Results of Non-Newtonian Displacement in Non-Rectilinear Oil Wells. , 2010, , .		0
53	Heat transfer coefficients for the laminar fully developed flow of viscoplastic liquids through annuli. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3257-3260.	2.5	12
54	Modeling the thixotropic behavior of structured fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 164, 66-75.	1.0	152

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55	Comments on "Objective flow classification parameters and their use in general steady flows" by P.O. Brunn. <i>Rheologica Acta</i> , 2008, 47, 959-961.	1.1	2
56	Liquid-Liquid Displacement Flows in a Hele-Shaw Cell including Viscoplastic Effects. AIP Conference Proceedings, 2008, , .	0.3	0
57	Wall Slip during the Flow of Carbopol Solutions through a Parallel Plate Channel. AIP Conference Proceedings, 2008, , .	0.3	0
58	Liquid-Liquid Displacement Flows in an Annular Space Including Viscoplastic Effects. AIP Conference Proceedings, 2008, , .	0.3	0
59	Immiscible liquid-liquid displacement in capillary tubes: viscoelastic effects. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2008, 30, 160-165.	0.8	12
60	Further remarks on persistence of straining and flow classification. <i>International Journal of Engineering Science</i> , 2007, 45, 504-508.	2.7	12
61	Flow of viscoplastic liquids through axisymmetric expansions"contractions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 142, 207-217.	1.0	71
62	Gas displacement of viscoplastic liquids in capillary tubes. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 145, 30-40.	1.0	26
63	Displacement flows of dilute polymer solutions in capillaries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 147, 117-128.	1.0	9
64	Dimensionless non-Newtonian fluid mechanics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 147, 109-116.	1.0	59
65	Taylor-Couette Instabilities in Flows of Newtonian and Power-Law Liquids in the Presence of Partial Annulus Obstruction. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 42-54.	0.8	6
66	Gas-displacement of non-Newtonian liquids in capillary tubes. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 95-104.	1.1	16
67	Considerations on kinematic flow classification criteria. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 128, 109-115.	1.0	21
68	Persistence of straining and flow classification. <i>International Journal of Engineering Science</i> , 2005, 43, 79-105.	2.7	43
69	Immiscible Liquid-Liquid Displacement in Capillary Tubes. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 24-31.	0.8	40
70	Instability of Inelastic Shear-Thinning Liquids in a Couette Flow Between Concentric Cylinders. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004, 126, 385-390.	0.8	28
71	Heat transfer to viscoplastic materials flowing axially through concentric annuli. <i>International Journal of Heat and Fluid Flow</i> , 2003, 24, 762-773.	1.1	23
72	A general transformation procedure for differential viscoelastic models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2003, 111, 151-174.	1.0	24

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73	Heat transfer to viscoplastic materials flowing laminary in the entrance region of tubes. International Journal of Heat and Fluid Flow, 1999, 20, 60-67.	1.1	21
74	A new constitutive equation and its performance in contraction flows. Journal of Non-Newtonian Fluid Mechanics, 1999, 86, 375-388.	1.0	32
75	Obstruction of pipelines due to paraffin deposition during the flow of crude oils. International Journal of Heat and Mass Transfer, 1997, 40, 4319-4328.	2.5	76
76	Heat transfer to non-Newtonian fluids in laminar flow through rectangular ducts. International Journal of Heat and Fluid Flow, 1996, 17, 613-620.	1.1	39
77	The naphthalene sublimation technique. Experimental Thermal and Fluid Science, 1991, 4, 510-523.	1.5	57