Peter Wapperom

List of Publications by Year
in descending order

28 papers	734 citations	516561 16 h-index	552653 26 g-index
28 all docs	28 docs citations	28 times ranked	518 citing authors

#	Article	IF	Citations
1	Comparing fiber orientation evolution between startup of shear and nonlubricated squeeze flow. Polymer Composites, 2021, 42, 98-112.	2.3	5
2	A model incorporating the effects of flow type on fiber orientation for flows with mixed flow kinematics. Journal of Rheology, 2019, 63, 455-464.	1.3	5
3	The use of flow type dependent strain reduction factor to improve fiber orientation predictions for an injection molded center-gated disk. Physics of Fluids, 2019, 31, .	1.6	6
4	Obtaining short-fiber orientation model parameters using non-lubricated squeeze flow. Physics of Fluids, 2017, 29, .	1.6	8
5	Obtaining repeatable initial fiber orientation for the transient rheology of fiber suspensions in simple shear flow. Journal of Rheology, 2016, 60, 161-174.	1.3	19
6	Simulation of Long Semi-Flexible Fiber Orientation During Injection Molding. , 2016, , .		0
7	Fiber orientation evolution in simple shear flow from a repeatable initial fiber orientation. Journal of Non-Newtonian Fluid Mechanics, 2016, 237, 65-75.	1.0	16
8	Influence of fiber concentration on the startup of shear flow behavior of long fiber suspensions. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 163-170.	1.0	16
9	Evolution of fibre orientation in radial direction in a center-gated disk: Experiments and simulation. Composites Part A: Applied Science and Manufacturing, 2013, 51, 108-117.	3.8	44
10	Unambiguous orientation in short fiber composites over small sampling area in a center-gated disk. Composites Part A: Applied Science and Manufacturing, 2012, 43, 104-113.	3.8	56
11	Using startup of steady shear flow in a sliding plate rheometer to determine material parameters for the purpose of predicting long fiber orientation. Journal of Rheology, 2012, 56, 955-981.	1.3	30
12	Prediction of fiber orientation in the injection molding of long fiber suspensions. Polymer Composites, 2012, 33, 1360-1367.	2.3	32
13	Transient shear flow behavior of concentrated long glass fiber suspensions in a sliding plate rheometer. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 884-895.	1.0	18
14	Fiber orientation kinetics of a concentrated short glass fiber suspension in startup of simple shear flow. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 110-119.	1.0	43
15	Obtaining reliable transient rheological data on concentrated short fiber suspensions using a rotational rheometer. Journal of Rheology, 2009, 53, 1049-1068.	1.3	15
16	Using transient shear rheology to determine material parameters in fiber suspension theory. Journal of Rheology, 2009, 53, 685-705.	1.3	43
17	Rheology of Non-Newtonian Fluids Containing Glass Fibers:â€‰ A Review of Experimental Literature. Industrial & Engineering Chemistry Research, 2008, 47, 3470-3488.	1.8	62
18	Simulation of Orientation in Injection Molding of High Aspect Ratio Particle Thermoplastic Composites. AIP Conference Proceedings, 2008, , .	0.3	0

#	Article	IF	Citations
19	The Dynamic Behavior of a Concentrated Non-Brownian Glass Fiber Suspension in Simple Shear Flow. AIP Conference Proceedings, 2008, , .	0.3	3
20	The role of transient rheology in polymeric sintering. Rheologica Acta, 2006, 45, 825-839.	1.1	26
21	Numerical simulation of large amplitude oscillatory shear of a high-density polyethylene melt using the MSF model. Journal of Non-Newtonian Fluid Mechanics, 2005, 130, 63-76.	1.0	28
22	Impact of decoupling approximation between stretch and orientation in rheometrical and complex flow of entangled linear polymers. Journal of Non-Newtonian Fluid Mechanics, 2004, 122, 33-43.	1.0	13
23	Prediction of rheometrical and complex flows of entangled linear polymers using the double-convection-reptation model with chain stretch. Journal of Rheology, 2003, 47, 247-265.	1.3	29
24	Numerical simulation of branched polymer melts in transient complex flow using pomâ€"pom models. Journal of Non-Newtonian Fluid Mechanics, 2001, 97, 267-281.	1.0	45
25	Simulation of linear polymer melts in transient complex flow. Journal of Non-Newtonian Fluid Mechanics, 2000, 95, 67-83.	1.0	31
26	The backward-tracking Lagrangian particle method for transient viscoelastic flows. Journal of Non-Newtonian Fluid Mechanics, 2000, 91, 273-295.	1.0	67
27	Thermodynamics of viscoelastic fluids: The temperature equation. Journal of Rheology, 1998, 42, 999-1019.	1.3	66
28	A lower bound for the invariants of the configuration tensor for some well-known differential models. Journal of Non-Newtonian Fluid Mechanics, 1995, 60, 349-355.	1.0	8