

Peter Wapperom

List of Publications by Year in descending order

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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	The backward-tracking Lagrangian particle method for transient viscoelastic flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 91, 273-295.	1.0	67
2	Thermodynamics of viscoelastic fluids: The temperature equation. <i>Journal of Rheology</i> , 1998, 42, 999-1019.	1.3	66
3	Rheology of Non-Newtonian Fluids Containing Glass Fibers: A Review of Experimental Literature. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3470-3488.	1.8	62
4	Unambiguous orientation in short fiber composites over small sampling area in a center-gated disk. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 104-113.	3.8	56
5	Numerical simulation of branched polymer melts in transient complex flow using pom-pom models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2001, 97, 267-281.	1.0	45
6	Evolution of fibre orientation in radial direction in a center-gated disk: Experiments and simulation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 51, 108-117.	3.8	44
7	Using transient shear rheology to determine material parameters in fiber suspension theory. <i>Journal of Rheology</i> , 2009, 53, 685-705.	1.3	43
8	Fiber orientation kinetics of a concentrated short glass fiber suspension in startup of simple shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 110-119.	1.0	43
9	Prediction of fiber orientation in the injection molding of long fiber suspensions. <i>Polymer Composites</i> , 2012, 33, 1360-1367.	2.3	32
10	Simulation of linear polymer melts in transient complex flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 95, 67-83.	1.0	31
11	Using startup of steady shear flow in a sliding plate rheometer to determine material parameters for the purpose of predicting long fiber orientation. <i>Journal of Rheology</i> , 2012, 56, 955-981.	1.3	30
12	Prediction of rheometrical and complex flows of entangled linear polymers using the double-convection-reptation model with chain stretch. <i>Journal of Rheology</i> , 2003, 47, 247-265.	1.3	29
13	Numerical simulation of large amplitude oscillatory shear of a high-density polyethylene melt using the MSF model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 130, 63-76.	1.0	28
14	The role of transient rheology in polymeric sintering. <i>Rheologica Acta</i> , 2006, 45, 825-839.	1.1	26
15	Obtaining repeatable initial fiber orientation for the transient rheology of fiber suspensions in simple shear flow. <i>Journal of Rheology</i> , 2016, 60, 161-174.	1.3	19
16	Transient shear flow behavior of concentrated long glass fiber suspensions in a sliding plate rheometer. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 884-895.	1.0	18
17	Influence of fiber concentration on the startup of shear flow behavior of long fiber suspensions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 222, 163-170.	1.0	16
18	Fiber orientation evolution in simple shear flow from a repeatable initial fiber orientation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 237, 65-75.	1.0	16

#	ARTICLE	IF	CITATIONS
19	Obtaining reliable transient rheological data on concentrated short fiber suspensions using a rotational rheometer. <i>Journal of Rheology</i> , 2009, 53, 1049-1068.	1.3	15
20	Impact of decoupling approximation between stretch and orientation in rheometrical and complex flow of entangled linear polymers. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004, 122, 33-43.	1.0	13
21	A lower bound for the invariants of the configuration tensor for some well-known differential models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1995, 60, 349-355.	1.0	8
22	Obtaining short-fiber orientation model parameters using non-lubricated squeeze flow. <i>Physics of Fluids</i> , 2017, 29, .	1.6	8
23	The use of flow type dependent strain reduction factor to improve fiber orientation predictions for an injection molded center-gated disk. <i>Physics of Fluids</i> , 2019, 31, .	1.6	6
24	A model incorporating the effects of flow type on fiber orientation for flows with mixed flow kinematics. <i>Journal of Rheology</i> , 2019, 63, 455-464.	1.3	5
25	Comparing fiber orientation evolution between startup of shear and nonlubricated squeeze flow. <i>Polymer Composites</i> , 2021, 42, 98-112.	2.3	5
26	The Dynamic Behavior of a Concentrated Non-Brownian Glass Fiber Suspension in Simple Shear Flow. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	3
27	Simulation of Orientation in Injection Molding of High Aspect Ratio Particle Thermoplastic Composites. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
28	Simulation of Long Semi-Flexible Fiber Orientation During Injection Molding. , 2016, , .		0