Henrik Koblitz Rasmussen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10561141/publications.pdf

Version: 2024-02-01

55	1,860	236925 25	254184 43
papers	citations	h-index	g-index

55	55	55	703
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elongational Viscosity of Narrow Molar Mass Distribution Polystyrene. Macromolecules, 2003, 36, 5174-5179.	4.8	252
2	Extensional viscosity for polymer melts measured in the filament stretching rheometer. Journal of Rheology, 2003, 47, 429-441.	2.6	177
3	Elongational viscosity of monodisperse and bidisperse polystyrene melts. Journal of Rheology, 2006, 50, 453-476.	2.6	139
4	Viscosity overshoot in the start-up of uniaxial elongation of low density polyethylene melts. Journal of Rheology, 2005, 49, 369-381.	2.6	90
5	Nonlinear Branch-Point Dynamics of Multiarm Polystyrene. Macromolecules, 2006, 39, 8844-8853.	4.8	76
6	Transient filament stretching rheometer. Rheologica Acta, 1997, 36, 285-302.	2.4	70
7	On the injection molding of nanostructured polymer surfaces. Polymer Engineering and Science, 2006, 46, 160-171.	3.1	70
8	Stress relaxation of narrow molar mass distribution polystyrene following uniaxial extension. Journal of Rheology, 2008, 52, 885-899.	2.6	69
9	Transient filament stretching rheometer II: Numerical simulation. Rheologica Acta, 1997, 36, 285-302.	2.4	65
10	Growth of non-axisymmetric disturbances of the free surface in the filament stretching rheometer: experiments and simulation. Journal of Non-Newtonian Fluid Mechanics, 2002, 108, 163-186.	2.4	51
11	A control scheme for filament stretching rheometers with application to polymer melts. Journal of Non-Newtonian Fluid Mechanics, 2013, 194, 14-22.	2.4	49
12	Three-dimensional simulations of viscoelastic instability in polymeric filaments. Journal of Non-Newtonian Fluid Mechanics, 1999, 82, 189-202.	2.4	40
13	Inflation of polymer melts into elliptic and circular cylinders. Journal of Non-Newtonian Fluid Mechanics, 2000, 93, 245-263.	2.4	36
14	Time-dependent finite-element method for the simulation of three-dimensional viscoelastic flow with integral models. Journal of Non-Newtonian Fluid Mechanics, 1999, 84, 217-232.	2.4	35
15	Observing the chain stretch transition in a highly entangled polyisoprene melt using transient extensional rheometry. Journal of Rheology, 2009, 53, 1327-1346.	2.6	35
16	Stress and neutron scattering measurements on linear polymer melts undergoing steady elongational flow. Rheologica Acta, 2012, 51, 385-394.	2.4	34
17	Large amplitude oscillatory elongation flow. Rheologica Acta, 2008, 47, 97-103.	2.4	33
18	Experimental evaluation of the pure configurational stress assumption in the flow dynamics of entangled polymer melts. Journal of Rheology, 2010, 54, 1325-1336.	2.6	33

#	Article	IF	Citations
19	The effects of polymer melt rheology on the replication of surface microstructures in isothermal moulding. Journal of Non-Newtonian Fluid Mechanics, 2005, 127, 191-200.	2.4	31
20	Large amplitude oscillatory extension of soft polymeric networks. Rheologica Acta, 2010, 49, 807-814.	2.4	31
21	Simulation of Elastic Rupture in Extension of Entangled Monodisperse Polymer Melts. Physical Review Letters, 2009, 102, 138301.	7.8	30
22	Lagrangian viscoelastic flow computations using the Rivlinâ€“Sawyers constitutive model. Journal of Non-Newtonian Fluid Mechanics, 2000, 92, 227-243.	2.4	29
23	Lagrangian viscoelastic flow computations using a generalized molecular stress function model. Journal of Non-Newtonian Fluid Mechanics, 2002, 106, 107-120.	2.4	28
24	The role of surface tension on the elastic decohesion of polymeric filaments. Journal of Rheology, 2001, 45, 527-537.	2.6	26
25	Reversed extension flow. Journal of Non-Newtonian Fluid Mechanics, 2008, 155, 15-19.	2.4	25
26	Planar elongation of soft polymeric networks. Rheologica Acta, 2010, 49, 1-13.	2.4	24
27	3D modeling of dual wind-up extensional rheometers. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 14-23.	2.4	24
28	Lagrangian Finiteâ€“Element Method for the Simulation of K-BKZ Fluids with Third Order Accuracy. Journal of Non-Newtonian Fluid Mechanics, 2009, 156, 177-188.	2.4	22
29	Gas displacement of polymer melts in a cylinder: Experiments and viscoelastic simulations. Journal of Non-Newtonian Fluid Mechanics, 2007, 143, 1-9.	2.4	18
30	On the burst of branched polymer melts during inflation. Rheologica Acta, 2008, 47, 149-157.	2.4	17
31	Elongational dynamics of multiarm polystyrene. Journal of Rheology, 2009, 53, 401-415.	2.6	16
32	Polymeric liquids in extension: fluid mechanics or rheometry?. Rheologica Acta, 2010, 49, 543-554.	2.4	16
33	On the bursting of linear polymer melts in inflation processes. Rheologica Acta, 2005, 44, 435-445.	2.4	15
34	3D Simulation of Nano-Imprint Lithography. Nanoscale Research Letters, 2010, 5, 274-278.	5.7	13
35	The missing link between the extensional dynamics of polymer melts and solutions. Journal of Non-Newtonian Fluid Mechanics, 2014, 204, 1-6.	2.4	13
36	Stress relaxation following uniaxial extension of polystyrene melt and oligomer dilutions. Journal of Rheology, 2016, 60, 465-471.	2.6	13

#	Article	IF	Citations
37	Catastrophic failure of polymer melts during extension. Journal of Non-Newtonian Fluid Mechanics, 2013, 198, 136-140.	2.4	12
38	Interchain tube pressure effect in extensional flows of oligomer diluted nearly monodisperse polystyrene melts. Rheologica Acta, 2014, 53, 199-208.	2.4	12
39	On the universality in the extensional rheology of monodisperse polymer melts and oligomer dilutions thereof. Rheologica Acta, 2019, 58, 333-340.	2.4	12
40	Viscous flow with large fluid-fluid interface displacement. , 1998, 28, 859-881.		11
41	Reversed planar elongation of soft polymeric networks. Rheologica Acta, 2011, 50, 729-740.	2.4	9
42	Spontaneous Breakup of Extended Monodisperse Polymer Melts. Physical Review Letters, 2011, 107, 126001.	7.8	9
43	Reply to: â€˜On the â€˜â€˜viscosity overshootâ€™â€™ during the uniaxial extension of a low density polyethyleneâ€™. Journal of Non-Newtonian Fluid Mechanics, 2012, 171-172, 106.	2.4	8
44	Lagrangian finite element method for 3D time-dependent non-isothermal flow of K-BKZ fluids. Journal of Non-Newtonian Fluid Mechanics, 2009, 162, 45-53.	2.4	7
45	The dynamics of cylindrical samples in dual wind-up extensional rheometers. Journal of Rheology, 2011, 55, 571-580.	2.6	7
46	Mechanism of spontaneous hole formation in thin polymeric films. Physical Review B, 2012, 85, .	3.2	6
47	Interchain tube pressure effect in the flow dynamics of bi-disperse polymer melts. Rheologica Acta, 2015, 54, 9-18.	2.4	6
48	Flow and breakup in extension of low-density polyethylene. Rheologica Acta, 2018, 57, 317-325.	2.4	4
49	A constitutive analysis of the extensional flows of nearly monodisperse polyisoprene melts. Polymer, 2016, 104, 251-257.	3.8	3
50	Constant interchain pressure effect in extensional flows of oligomer diluted polystyrene and poly(methyl methacrylate) melts. Rheologica Acta, 2017, 56, 27-34.	2.4	3
51	The transition between undiluted and oligomer-diluted states of nearly monodisperse polystyrenes in extensional flow. Rheologica Acta, 2017, 56, 719-727.	2.4	3
52	A third order accurate Lagrangian finite element scheme for the computation of generalized molecular stress function fluids. Journal of Non-Newtonian Fluid Mechanics, 2017, 246, 10-20.	2.4	2
53	Experimental evaluation of the pseudotime principle for nonisothermal polymer flows. Journal of Rheology, 2011, 55, 1059-1067.	2.6	1
54	Measurement of Reversed Extension Flow Using the Filament Stretch Rheometer. AIP Conference Proceedings, 2008, , .	0.4	0

#	Article	IF	Citations
55	Elongational Dynamics of Narrow Molar Mass Distribution Linear and Branched Polystyrene Melts. AIP Conference Proceedings, 2008, , .	0.4	0