

Henrik Koblitz Rasmussen

List of Publications by Year in descending order

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55
papers

1,860
citations

236925

25
h-index

254184

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all docs

55
docs citations

55
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	On the universality in the extensional rheology of monodisperse polymer melts and oligomer dilutions thereof. <i>Rheologica Acta</i> , 2019, 58, 333-340.	2.4	12
2	Flow and breakup in extension of low-density polyethylene. <i>Rheologica Acta</i> , 2018, 57, 317-325.	2.4	4
3	A third order accurate Lagrangian finite element scheme for the computation of generalized molecular stress function fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 246, 10-20.	2.4	2
4	Constant interchain pressure effect in extensional flows of oligomer diluted polystyrene and poly(methyl methacrylate) melts. <i>Rheologica Acta</i> , 2017, 56, 27-34.	2.4	3
5	The transition between undiluted and oligomer-diluted states of nearly monodisperse polystyrenes in extensional flow. <i>Rheologica Acta</i> , 2017, 56, 719-727.	2.4	3
6	Stress relaxation following uniaxial extension of polystyrene melt and oligomer dilutions. <i>Journal of Rheology</i> , 2016, 60, 465-471.	2.6	13
7	A constitutive analysis of the extensional flows of nearly monodisperse polyisoprene melts. <i>Polymer</i> , 2016, 104, 251-257.	3.8	3
8	Interchain tube pressure effect in the flow dynamics of bi-disperse polymer melts. <i>Rheologica Acta</i> , 2015, 54, 9-18.	2.4	6
9	Interchain tube pressure effect in extensional flows of oligomer diluted nearly monodisperse polystyrene melts. <i>Rheologica Acta</i> , 2014, 53, 199-208.	2.4	12
10	The missing link between the extensional dynamics of polymer melts and solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 204, 1-6.	2.4	13
11	Catastrophic failure of polymer melts during extension. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 198, 136-140.	2.4	12
12	A control scheme for filament stretching rheometers with application to polymer melts. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 194, 14-22.	2.4	49
13	Mechanism of spontaneous hole formation in thin polymeric films. <i>Physical Review B</i> , 2012, 85, .	3.2	6
14	Stress and neutron scattering measurements on linear polymer melts undergoing steady elongational flow. <i>Rheologica Acta</i> , 2012, 51, 385-394.	2.4	34
15	Reply to: "On the "viscosity overshoot" during the uniaxial extension of a low density polyethylene". <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 171-172, 106.	2.4	8
16	The dynamics of cylindrical samples in dual wind-up extensional rheometers. <i>Journal of Rheology</i> , 2011, 55, 571-580.	2.6	7
17	Experimental evaluation of the pseudotime principle for nonisothermal polymer flows. <i>Journal of Rheology</i> , 2011, 55, 1059-1067.	2.6	1
18	Reversed planar elongation of soft polymeric networks. <i>Rheologica Acta</i> , 2011, 50, 729-740.	2.4	9

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19	Spontaneous Breakup of Extended Monodisperse Polymer Melts. <i>Physical Review Letters</i> , 2011, 107, 126001.	7.8	9
20	Planar elongation of soft polymeric networks. <i>Rheologica Acta</i> , 2010, 49, 1-13.	2.4	24
21	Polymeric liquids in extension: fluid mechanics or rheometry?. <i>Rheologica Acta</i> , 2010, 49, 543-554.	2.4	16
22	Large amplitude oscillatory extension of soft polymeric networks. <i>Rheologica Acta</i> , 2010, 49, 807-814.	2.4	31
23	3D Simulation of Nano-Imprint Lithography. <i>Nanoscale Research Letters</i> , 2010, 5, 274-278.	5.7	13
24	3D modeling of dual wind-up extensional rheometers. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 14-23.	2.4	24
25	Experimental evaluation of the pure configurational stress assumption in the flow dynamics of entangled polymer melts. <i>Journal of Rheology</i> , 2010, 54, 1325-1336.	2.6	33
26	Simulation of Elastic Rupture in Extension of Entangled Monodisperse Polymer Melts. <i>Physical Review Letters</i> , 2009, 102, 138301.	7.8	30
27	Lagrangian Finite Element Method for the Simulation of K-BKZ Fluids with Third Order Accuracy. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 156, 177-188.	2.4	22
28	Lagrangian finite element method for 3D time-dependent non-isothermal flow of K-BKZ fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009, 162, 45-53.	2.4	7
29	Observing the chain stretch transition in a highly entangled polyisoprene melt using transient extensional rheometry. <i>Journal of Rheology</i> , 2009, 53, 1327-1346.	2.6	35
30	Elongational dynamics of multiarm polystyrene. <i>Journal of Rheology</i> , 2009, 53, 401-415.	2.6	16
31	Large amplitude oscillatory elongation flow. <i>Rheologica Acta</i> , 2008, 47, 97-103.	2.4	33
32	On the burst of branched polymer melts during inflation. <i>Rheologica Acta</i> , 2008, 47, 149-157.	2.4	17
33	Reversed extension flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 15-19.	2.4	25
34	Stress relaxation of narrow molar mass distribution polystyrene following uniaxial extension. <i>Journal of Rheology</i> , 2008, 52, 885-899.	2.6	69
35	Measurement of Reversed Extension Flow Using the Filament Stretch Rheometer. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
36	Elongational Dynamics of Narrow Molar Mass Distribution Linear and Branched Polystyrene Melts. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0

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37	Gas displacement of polymer melts in a cylinder: Experiments and viscoelastic simulations. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 143, 1-9.	2.4	18
38	Elongational viscosity of monodisperse and bidisperse polystyrene melts. <i>Journal of Rheology</i> , 2006, 50, 453-476.	2.6	139
39	Nonlinear Branch-Point Dynamics of Multiarm Polystyrene. <i>Macromolecules</i> , 2006, 39, 8844-8853.	4.8	76
40	On the injection molding of nanostructured polymer surfaces. <i>Polymer Engineering and Science</i> , 2006, 46, 160-171.	3.1	70
41	The effects of polymer melt rheology on the replication of surface microstructures in isothermal moulding. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 127, 191-200.	2.4	31
42	On the bursting of linear polymer melts in inflation processes. <i>Rheologica Acta</i> , 2005, 44, 435-445.	2.4	15
43	Viscosity overshoot in the start-up of uniaxial elongation of low density polyethylene melts. <i>Journal of Rheology</i> , 2005, 49, 369-381.	2.6	90
44	Elongational Viscosity of Narrow Molar Mass Distribution Polystyrene. <i>Macromolecules</i> , 2003, 36, 5174-5179.	4.8	252
45	Extensional viscosity for polymer melts measured in the filament stretching rheometer. <i>Journal of Rheology</i> , 2003, 47, 429-441.	2.6	177
46	Lagrangian viscoelastic flow computations using a generalized molecular stress function model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002, 106, 107-120.	2.4	28
47	Growth of non-axisymmetric disturbances of the free surface in the filament stretching rheometer: experiments and simulation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002, 108, 163-186.	2.4	51
48	The role of surface tension on the elastic decohesion of polymeric filaments. <i>Journal of Rheology</i> , 2001, 45, 527-537.	2.6	26
49	Lagrangian viscoelastic flow computations using the Rivlin-Sawyers constitutive model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 92, 227-243.	2.4	29
50	Inflation of polymer melts into elliptic and circular cylinders. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 93, 245-263.	2.4	36
51	Time-dependent finite-element method for the simulation of three-dimensional viscoelastic flow with integral models. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1999, 84, 217-232.	2.4	35
52	Three-dimensional simulations of viscoelastic instability in polymeric filaments. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1999, 82, 189-202.	2.4	40
53	Viscous flow with large fluid-fluid interface displacement. , 1998, 28, 859-881.		11
54	Transient filament stretching rheometer. <i>Rheologica Acta</i> , 1997, 36, 285-302.	2.4	70

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55	Transient filament stretching rheometer II: Numerical simulation. <i>Rheologica Acta</i> , 1997, 36, 285-302.	2.4	65