

# Helmut MÃ¼nstedt

## List of Publications by Year in descending order

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109  
papers

5,128  
citations

87888

38  
h-index

91884

69  
g-index

112  
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112  
docs citations

112  
times ranked

3541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheological Measurements and Structural Analysis of Polymeric Materials. <i>Polymers</i> , 2021, 13, 1123.	4.5	18
2	Mechanical pretreatment of polymer melts: Critical aspects and new rheological investigations on a linear and a long-chain branched polypropylene. <i>Journal of Rheology</i> , 2021, 65, 871-885.	2.6	12
3	Recoverable Extensional Flow of Polymer Melts and Its Relevance for Processing. <i>Polymers</i> , 2020, 12, 1512.	4.5	6
4	Influence of hydrostatic pressure on rheological properties of polymer melts – A review. <i>Journal of Rheology</i> , 2020, 64, 751-774.	2.6	8
5	Dependence of Elastic Quantities on Experimental Parameters. , 2019, , 37-55.		0
6	Experimental Basics of Various Methods for Measuring the Elastic Behavior. , 2019, , 21-35.		0
7	Dependence of Elastic Properties on Molecular Structure. , 2019, , 57-109.		0
8	Influence of Elastic Properties on Processing. , 2019, , 219-245.		0
9	Rheological properties of conductive polymer composites around the electrical percolation threshold. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
10	Morphology Development in Compatibilized Polymer Blends. , 2016, , 407-425.		0
11	Rheological Behavior of Polymer Melts with Intrinsic Structural Heterogeneities. , 2016, , 223-240.		0
12	Determination of Miscibility of Polymer Blends. , 2016, , 271-284.		0
13	Is electrical percolation in carbon-filled polymers reflected by rheological properties?. <i>Polymer</i> , 2016, 98, 51-60.	3.8	18
14	Rheological Properties of Blends of Homologous Polymeric Materials. , 2016, , 285-303.		0
15	Deformation and Flow of Polymeric Materials. , 2014, , .		97
16	Rheological Properties and Molecular Structure. , 2014, , 419-452.		2
17	Rheological experiments at constant stress as efficient method to characterize polymeric materials. <i>Journal of Rheology</i> , 2014, 58, 565-587.	2.6	58
18	Gelation of polyvinylbutyral solutions by the addition of tetrabutyl orthotitanate. <i>Rheologica Acta</i> , 2014, 53, 635-643.	2.4	0

#	ARTICLE	IF	CITATIONS
19	Shear Rheology. , 2014, , 363-386.		2
20	Measurements of Flow Fields of Polymer Melts by Laser-Doppler Velocimetry. , 2014, , 495-526.		1
21	Artefacts of the storage modulus due to bubbles in polymeric fluids. Rheologica Acta, 2013, 52, 287-289.	2.4	9
22	Steady states in extensional flow of strain hardening polymer melts and the uncertainties of their determination. Journal of Rheology, 2013, 57, 1065-1077.	2.6	24
23	Elongational experiments on polymer melts and their assessment. , 2013, , .		0
24	Rheological properties of electron beam-irradiated polypropylenes with different molar masses. Rheologica Acta, 2012, 51, 979-989.	2.4	19
25	Influence of a compatibilizer on the morphology development in polymer blends under elongation. Polymer, 2012, 53, 1881-1889.	3.8	34
26	Comparison of Molecular Structure and Rheological Properties of Electron-Beam- and Gamma-Irradiated Polypropylene. Macromolecules, 2012, 45, 2057-2065.	4.8	65
27	Graded Cellular Ceramics from Continuous Foam Extrusion. Advanced Engineering Materials, 2012, 14, 1097-1103.	3.5	12
28	Flow behavior of polypropylenes with different molecular structures in a coat-hanger die. Polymer Engineering and Science, 2012, 52, 2253-2259.	3.1	3
29	Velocity measurements on a polypropylene melt during extrusion through a flat coat-hanger die. Polymer Engineering and Science, 2012, 52, 615-624.	3.1	7
30	Extrusion Foaming of a Pre ceramic Silicone Resin with a Variety of Profiles and Morphologies. Advanced Engineering Materials, 2012, 14, 1110-1115.	3.5	15
31	An in situ investigation of the draw resonance phenomenon in film casting of a polypropylene melt. Journal of Non-Newtonian Fluid Mechanics, 2012, 173-174, 87-96.	2.4	21
32	Conductivity of polymethylmethacrylate filled with carbon black or carbon fibres under oscillatory shear. Polymer, 2012, 53, 395-402.	3.8	50
33	Time- and temperature-dependent crosslinking behaviour of a silicone resin. Rheologica Acta, 2012, 51, 71-80.	2.4	14
34	Rheological properties and molecular structure of polymer melts. Soft Matter, 2011, 7, 2273-2283.	2.7	73
35	On the "viscosity overshoot" during the uniaxial extension of a low density polyethylene. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1198-1209.	2.4	41
36	Influence of crystallinity on rheological properties of unfilled and particle-filled polycarbonates. Polymer, 2011, 52, 3677-3680.	3.8	7

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37	Polyurethane/silver-nanocomposites with enhanced silver ion release using multifunctional invertible polyesters. <i>Journal of Materials Chemistry</i> , 2011, 21, 4377.	6.7	38
38	Continuous direct melt foaming of a preceramic polymer using carbon dioxide: extrusion device and first results. <i>Journal of Materials Science</i> , 2011, 46, 6162-6167.	3.7	11
39	Influence of molecular parameters on the stress dependence of viscous and elastic properties of polypropylene melts in shear. <i>Rheologica Acta</i> , 2011, 50, 53-63.	2.4	12
40	Viscoelastic properties of a silicone resin during crosslinking. <i>Rheologica Acta</i> , 2011, 50, 917-924.	2.4	15
41	Prediction of steady-state viscous and elastic properties of polyolefin melts in shear and elongation. <i>Rheologica Acta</i> , 2011, 50, 645-653.	2.4	15
42	Shape Recovery Versus Breakup of Deformed Droplets in a Polymer Blend after Uniaxial Extension. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 414-422.	3.6	4
43	Silver Nanoparticles in Blends of Polyethylene and a Superabsorbent Polymer: Morphology and Silver Ion Release. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 423-427.	3.6	10
44	Compression moduli of foamed films of fluorinated ethylene propylene copolymers determined by nanoindentation. <i>Polymer Testing</i> , 2011, 30, 286-293.	4.8	2
45	Comparison of viscous and elastic properties of polyolefin melts in shear and elongation. <i>Rheologica Acta</i> , 2010, 49, 95-103.	2.4	31
46	Thermorheology as a method to analyze long-chain branched polyethylenes. <i>Polymer</i> , 2010, 51, 507-513.	3.8	57
47	Elongational creep experiments " A new method for investigations of morphology development in polymer blends. <i>Polymer</i> , 2010, 51, 3744-3752.	3.8	17
48	Comparative investigations of surface instabilities ("sharkskin") of a linear and a long-chain branched polyethylene. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 1093-1104.	2.4	25
49	Method for obtaining tube model parameters for commercial ethene/olefin copolymers. <i>Journal of Rheology</i> , 2010, 54, 393-406.	2.6	32
50	Thermorheological Behavior of Various Short- and Long-Chain Branched Polyethylenes and Their Correlations with the Molecular Structure. <i>Macromolecules</i> , 2010, 43, 7341-7350.	4.8	64
51	Investigations on the quality of dispersion of nanofillers in poly(methyl methacrylate) composites by creep-recovery experiments. <i>Journal of Rheology</i> , 2010, 54, 407-420.	2.6	21
52	Correlations between the Shape of Viscosity Functions and the Molecular Structure of Long-Chain Branched Polyethylenes. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 25-34.	3.6	40
53	Influence of molar mass distribution and long-chain branching on strain hardening of low density polyethylene. <i>Rheologica Acta</i> , 2009, 48, 479-490.	2.4	80
54	Rheological behaviour and molecular structure of long-chain branched semifluorinated thermoplastics. <i>Rheologica Acta</i> , 2009, 48, 509-516.	2.4	6

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55	Foaming of thin films of a fluorinated ethylene propylene copolymer using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2009, 49, 103-110.	3.2	36
56	Determination of method-invariant activation energies of long-chain branched low-density polyethylenes. <i>Journal of Rheology</i> , 2009, 53, 1001-1016.	2.6	38
57	Local versus integral measurements of the extensional viscosity of polymer melts. <i>Journal of Rheology</i> , 2009, 53, 1363-1377.	2.6	13
58	Simultaneous measurements of velocity and stress distributions in polyisobutylenes using laser-Doppler velocimetry and flow induced birefringence. <i>Rheologica Acta</i> , 2008, 47, 111-119.	2.4	13
59	Transient elongational viscosities of aqueous polyacrylamide solutions measured with an optical rheometer. <i>Rheologica Acta</i> , 2008, 47, 139-147.	2.4	9
60	Recoverable strains and retardation times of monodisperse suspensions of silicon dioxide spheres in poly(dimethylsiloxane). <i>Rheologica Acta</i> , 2008, 47, 873-881.	2.4	3
61	Morphology development in PS/LLDPE blend during and after elongational deformation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 16-27.	2.1	25
62	Numerical description of shear viscosity functions of long-chain branched metallocene-catalyzed polyethylenes. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 151, 129-135.	2.4	34
63	Thermorheological Behavior of Various Long-Chain Branched Polyethylenes. <i>Macromolecules</i> , 2008, 41, 1328-1333.	4.8	84
64	Terminal viscous and elastic properties of linear ethene-olefin copolymers. <i>Journal of Rheology</i> , 2008, 52, 697-712.	2.6	47
65	Elastic and Viscous Properties of Linear and Long-Chain Branched Ethene-Olefin Copolymers in the Terminal Regime. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	3
66	Influence of the Molecular Structure of Polyolefins on the Damping Function in Shear. <i>Macromolecules</i> , 2008, 41, 3720-3726.	4.8	25
67	Processing of Three-Dimensional Laser Sintered Polyetheretherketone Composites and Testing of Osteoblast Proliferation in vitro. <i>Macromolecular Symposia</i> , 2007, 253, 65-70.	0.7	25
68	Linear Rheological Properties of the Semifluorinated Copolymer Tetrafluoroethylene-Hexafluoropropylene-Vinylidenefluoride (THV) with Controlled Amounts of Long-Chain Branching. <i>Macromolecules</i> , 2007, 40, 2409-2416.	4.8	33
69	Elongational Viscosities of Polymethylmethacrylate / Nano-Clay Composites. <i>Applied Rheology</i> , 2007, 17, 52751-1-52751-9.	5.2	8
70	Influence of Short-Chain Branching of Polyethylenes on the Temperature Dependence of Rheological Properties in Shear. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2449-2454.	2.2	75
71	Synthesis and Characterization of Novel Ethene-graft-Ethene/Propene Copolymers. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1472-1478.	3.9	31
72	Thermal stability of poly(methyl methacrylate)/silica nano- and microcomposites as investigated by dynamic-mechanical experiments. <i>Polymer Degradation and Stability</i> , 2007, 92, 1966-1976.	5.8	61

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73	Long-term antimicrobial polyamide 6/silver-nanocomposites. <i>Journal of Materials Science</i> , 2007, 42, 6067-6073.	3.7	208
74	Comparison of the elongational behavior of various polyolefins in uniaxial and equibiaxial flows. <i>Rheologica Acta</i> , 2007, 46, 1003-1012.	2.4	64
75	Recoverable deformation and morphology after uniaxial elongation of a polystyrene/linear low density polyethylene blend. <i>Rheologica Acta</i> , 2007, 46, 1197-1209.	2.4	14
76	Rheological properties and foaming behavior of polypropylenes with different molecular structures. <i>Journal of Rheology</i> , 2006, 50, 907-923.	2.6	99
77	Effect of Long-chain Branching on the Foaming of Polypropylene with Azodicarbonamide. <i>Journal of Cellular Plastics</i> , 2006, 42, 445-467.	2.4	80
78	Influence of Type and Content of Various Comonomers on Long-Chain Branching of Ethene/ $\beta$ -Olefin Copolymers. <i>Macromolecules</i> , 2006, 39, 1474-1482.	4.8	115
79	Molecular Characterization of Semi-Fluorinated Copolymers with a Controlled Amount of Long-Chain Branching. <i>Macromolecules</i> , 2006, 39, 2316-2324.	4.8	23
80	Advances in Film Blowing, Thermoforming, and Foaming by Using Long-Chain Branched Polymers. <i>Macromolecular Symposia</i> , 2006, 245-246, 181-190.	0.7	11
81	Importance of elongational properties of polymer melts for film blowing and thermoforming. <i>Polymer Engineering and Science</i> , 2006, 46, 1190-1195.	3.1	53
82	Rheological properties of branched polystyrenes: nonlinear shear and extensional behavior. <i>Rheologica Acta</i> , 2006, 45, 717-727.	2.4	47
83	Dependence of the zero shear-rate viscosity and the viscosity function of linear high-density polyethylenes on the mass-average molar mass and polydispersity. <i>Rheologica Acta</i> , 2006, 45, 755-764.	2.4	111
84	Influence of long-chain branching on time-pressure and time-temperature shift factors for polystyrene and polyethylene. <i>Rheologica Acta</i> , 2006, 46, 153-159.	2.4	24
85	Characterization of electron beam irradiated polypropylene: Influence of irradiation temperature on molecular and rheological properties. <i>Journal of Applied Polymer Science</i> , 2006, 100, 2770-2780.	2.6	61
86	Structure-Property Relationships of Linear and Long-Chain Branched Metallocene High-Density Polyethylenes Characterized by Shear Rheology and SEC-MALLS. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 26-38.	2.2	92
87	Rheological Characterization of Long-chain Branched Polyethylenes and Comparison with Classical Analytical Methods. <i>Macromolecular Symposia</i> , 2006, 236, 209-218.	0.7	56
88	Rheological measuring techniques and their relevance for the molecular characterization of polymers. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 128, 62-69.	2.4	49
89	Dynamic-mechanical behavior of polyethylenes and ethene- $\beta$ -olefin-copolymers. Part I. $\hat{\epsilon}^2$ -Relaxation. <i>Polymer</i> , 2005, 46, 10311-10320.	3.8	53
90	Silver ion release from antimicrobial polyamide/silver composites. <i>Biomaterials</i> , 2005, 26, 2081-2088.	11.4	662

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91	Polyamide/silver antimicrobials: Effect of filler types on the silver ion release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 75B, 311-319.	3.4	163
92	Rheological properties of branched polystyrenes: linear viscoelastic behavior. <i>Rheologica Acta</i> , 2005, 45, 151-163.	2.4	35
93	Correlation between rheological behaviour in uniaxial elongation and film blowing properties of various polyethylenes. <i>Rheologica Acta</i> , 2005, 45, 14-22.	2.4	83
94	Rheological behavior of blends from a linear and a long-chain branched polypropylene. <i>Journal of Rheology</i> , 2005, 49, 1059-1079.	2.6	116
95	Rheological properties of branched polystyrenes: linear viscoelastic behavior. <i>Rheologica Acta</i> , 2005, 45, 1-13.	2.4	1
96	Long-Chain Branched Polypropylenes by Electron Beam Irradiation and Their Rheological Properties. <i>Macromolecules</i> , 2004, 37, 9465-9472.	4.8	303
97	Strain hardening of various polyolefins in uniaxial elongational flow. <i>Journal of Rheology</i> , 2003, 47, 619-630.	2.6	157
98	Long-Chain Branching in Metallocene-Catalyzed Polyethylenes Investigated by Low Oscillatory Shear and Uniaxial Extensional Rheometry. <i>Macromolecules</i> , 2002, 35, 1038-1048.	4.8	154
99	Investigations on the temperature dependence of the die entrance flow of various long-chain branched polyethylenes using laser-Doppler velocimetry. <i>Journal of Rheology</i> , 2002, 46, 797.	2.6	24
100	Influence of long-chain branches in polyethylenes on linear viscoelastic flow properties in shear. <i>Rheologica Acta</i> , 2002, 41, 232-244.	2.4	149
101	Rheological behaviour of concentrated monodisperse suspensions as a function of preshear conditions and temperature: an experimental study. <i>Rheologica Acta</i> , 2002, 41, 193-204.	2.4	20
102	Analytical and rheological characterization of long-chain branched metallocene-catalyzed ethylene homopolymers. <i>Polymer</i> , 2002, 43, 6383-6390.	3.8	92
103	Local Flow Behavior of Ceramic Slurries in Tape Casting, as Investigated by Laser-Doppler Velocimetry. <i>Journal of the American Ceramic Society</i> , 2002, 85, 314-320.	3.8	7
104	Influence of molecular structure on secondary flow of polyolefin melts as investigated by laser-Doppler velocimetry. <i>Rheologica Acta</i> , 2001, 40, 384-394.	2.4	37
105	Melt rheology and structure of silicone resins. <i>Rheologica Acta</i> , 2001, 40, 490-498.	2.4	33
106	Oxidation resistant ceramic foam from a silicone preceramic polymer/polyurethane blend. <i>Journal of the European Ceramic Society</i> , 2001, 21, 2821-2828.	5.7	44
107	Different surface treatments to improve the adhesion of polypropylene. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 619-634.	2.6	20
108	Creep recovery behavior of metallocene linear low-density polyethylenes. <i>Rheologica Acta</i> , 1999, 38, 393-403.	2.4	80

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109	Influence of molecular structure on rheological properties of polyethylenes. Rheologica Acta, 1998, 37, 7-20.	2.4	118