Pier Luca Maffettone

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Continuous 3D Printing of Hierarchically Structured Microfoamed Objects. Advanced Engineering Materials, 2022, 24, 2101226.	3.5	15
2	An Experimental and Numerical Investigation on Bubble Growth in Polymeric Foams. Entropy, 2022, 24, 183.	2.2	2
3	Digital holography as metrology tool at micro-nanoscale for soft matter. Light Advanced Manufacturing, 2022, 3, 151.	5.1	13
4	Rheo-Engineered Microfluidics @ UNINA. , 2022, 3, 100024.		0
5	Extending the High-Throughput Experimentation (HTE) Approach to Catalytic Olefin Polymerizations: From Catalysts to Materials. Macromolecules, 2022, 55, 5017-5026.	4.8	11
6	Effect of wall slip on the viscoelastic particle ordering in a microfluidic channel. Electrophoresis, 2022, 43, 2206-2216.	2.4	2
7	Microfluidic formation of crystal-like structures. Lab on A Chip, 2021, 21, 2069-2094.	6.0	24
8	Full-Field and Quantitative Analysis of a Thin Liquid Film at the Nanoscale by Combining Digital Holography and White Light Interferometry. Journal of Physical Chemistry C, 2021, 125, 1075-1086.	3.1	16
9	Quantitative thickness mapping of a freestanding thin liquid film by fusing digital holography and white light interferometry. , 2021, , .		0
10	Tomographic flow cytometry as the key-enabling technology for label-free liquid biopsy. , 2021, , .		0
11	Biocompatible micro-needles for smart therapy. , 2021, , .		1
12	SensApp: a FET-open project for developing a supersensor able to detect Alzheimer's disease biomarkers in blood. , 2021, , .		0
13	Three-dimensional computational fluid dynamics simulation of the hollow-cone spray process: The stability of the conical liquid sheet. Physics of Fluids, 2021, 33, .	4.0	9
14	10.1063/5.0051309.1., 2021,,.		0
15	Design of a microfluidic device for the phase-contrast tomography of flowing cells. , 2021, , .		0
16	Investigation of plant cells intracellular dynamics by digital holography. , 2021, , .		0
17	A remote foaming experiment. Education for Chemical Engineers, 2021, 36, 171-175.	4.8	0
18	Flowering in bursting bubbles with viscoelastic interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15

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19	Numerical simulation of clogging in a microchannel with planar contraction. Physics of Fluids, 2021, 33, .	4.0	13
20	Axisymmetric bare freestanding films of highly viscous liquids: Preparation and real-time investigation of capillary leveling. Journal of Colloid and Interface Science, 2021, 596, 493-499.	9.4	6
21	Dehydration of plant cells shoves nuclei rotation allowing for 3D phase-contrast tomography. Light: Science and Applications, 2021, 10, 187.	16.6	21
22	A microcapillary rheometer for microliter sized polymer characterization. Polymer Testing, 2021, 102, 107332.	4.8	15
23	Induced dehydration as a method to enhance phase-contrast observation of plant cells intracellular dynamics. , 2021, , .		0
24	CFD-DEM Modelling: Clogging of Triplet Particles in a Microchannel With a Constriction. , 2021, , .		2
25	Numerical simulations on the dynamics of trains of particles in a viscoelastic fluid flowing in a microchannel. Meccanica, 2020, 55, 317-330.	2.0	19
26	Granular flow in rotating drums through simulations adopting a continuum constitutive equation. Physics of Fluids, 2020, 32, 093305.	4.0	4
27	Perspectives on liquid biopsy for labelâ€free detection of "circulating tumor cells―through intelligent labâ€onâ€chips. View, 2020, 1, 20200034.	5.3	69
28	Metal-Enhanced Fluorescence Immunosensor Based on Plasmonic Arrays of Gold Nanoislands on an Etched Glass Substrate. ACS Applied Nano Materials, 2020, 3, 10470-10478.	5.0	28
29	Complementary characteristics of Digital Holography and White Light Interferometry allow quantitative study of thin liquid film. , 2020, , .		0
30	Assembling and rotating erythrocyte aggregates by acoustofluidic pressure enabling full phase-contrast tomography. Lab on A Chip, 2019, 19, 3123-3132.	6.0	14
31	Numerical simulations of a stick-slip spherical particle in Poiseuille flow. Physics of Fluids, 2019, 31, 083603.	4.0	11
32	Effect of pH on the viscoelastic properties of pig gastric mucus. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 195-199.	3.1	6
33	Fast and Accurate Thickness Mapping of Thin Liquid Films. EPJ Web of Conferences, 2019, 215, 12002.	0.3	0
34	Microfluidic engineering for continuous in-flow cyto-tomography. EPJ Web of Conferences, 2019, 215, 10003.	0.3	0
35	Design of a microfluidic device for the measurement of the elastic modulus of deformable particles. Soft Matter, 2019, 15, 880-889.	2.7	14
36	Multi-graded foams upon time-dependent exposition to blowing agent. Chemical Engineering Journal, 2019, 362, 812-817.	12.7	20

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37	Numerical simulations on the dynamics of a particle pair in a viscoelastic fluid in a microchannel: effect of rheology, particle shape, and confinement. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	14
38	Numerical simulations of viscoelastic film stretching and retraction. Journal of Non-Newtonian Fluid Mechanics, 2019, 266, 118-126.	2.4	5
39	Dynamics, rheology, and applications of elastic deformable particle suspensions: a review. Rheologica Acta, 2019, 58, 109-130.	2.4	41
40	Quantitative imaging of the complexity in liquid bubbles' evolution reveals the dynamics of film retraction. Light: Science and Applications, 2019, 8, 20.	16.6	26
41	Dissolution of concentrated surfactant solutions: from microscopy imaging to rheological measurements through numerical simulations. Soft Matter, 2019, 15, 8352-8360.	2.7	6
42	Numerical simulations on the dynamics of a spheroid in a viscoelastic liquid in a wide-slit microchannel. Journal of Non-Newtonian Fluid Mechanics, 2019, 263, 33-41.	2.4	27
43	CFD-DEM simulations of particulate fouling in microchannels. Chemical Engineering Journal, 2019, 358, 91-100.	12.7	31
44	3D imaging in microfluidics: new holographic methods and devices. , 2019, , .		2
45	Recent Advancements and Perspective About Digital Holography: A Super-Tool in Biomedical and Bioengineering Fields. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 235-241.	0.5	1
46	Methods for holographic 3D tracking and rotating angle recovery in tomographic flow cytometry. , 2019, , .		0
47	Holographic Imaging for 3D Visualization and Metrology of Liquid Bubbles. , 2019, , .		0
48	3D thin liquid films full-field measurement. , 2019, , .		0
49	Label-free imaging of cancer cells by in-flow tomography. , 2019, , .		0
50	Phase contrast imaging in acoustophoresis platforms for biological applications. , 2019, , .		0
51	Holographic imaging of erythrocytes in acoustofluidic platforms. , 2019, , .		0
52	Design of an optofluidic device for the measurement of the elastic modulus of deformable particles. , 2019, , .		0
53	Holographic imaging for 3D cells morphology in microfluidic flow. , 2019, , .		0
54	Elasticity in Bubble Rupture. Langmuir, 2018, 34, 5646-5654.	3.5	24

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55	The effect of shear flow on microreactor clogging. Chemical Engineering Journal, 2018, 341, 639-647.	12.7	29
56	Full-angle tomographic phase microscopy of flowing quasi-spherical cells. Lab on A Chip, 2018, 18, 126-131.	6.0	83
57	Fluid Viscoelasticity Drives Self-Assembly of Particle Trains in a Straight Microfluidic Channel. Physical Review Applied, 2018, 10, .	3.8	38
58	Fast and Accurate Thickness Mapping of Liquid Bubbles and Thin Protein Films. , 2018, , .		1
59	Experimental Study and Numerical Investigation of the Phenomena Occurring During Long Duration Cold Spray Deposition. International Review on Modelling and Simulations, 2018, 11, 84.	0.3	15
60	Thin-film drainage study based on holographic 3D particle tracking. , 2018, , .		1
61	Holographic phase imaging for full-field thickness mapping of evolving thin liquid films. , 2018, , .		0
62	Tomographic flow cytometry of circulating human breast adenocarcinoma cells. , 2018, , .		1
63	Relaxation time of polyelectrolyte solutions: When <i>μ<</i> -rheometry steps in charge. Journal of Rheology, 2017, 61, 13-21.	2.6	33
64	Modeling and simulation of viscoelastic film retraction. Journal of Non-Newtonian Fluid Mechanics, 2017, 249, 26-35.	2.4	10
65	Interferometric measurement of film thickness during bubble blowing. , 2017, , .		2
66	Numerical simulations of dispersive mixing of viscoelastic suspensions in a four-roll mill. Rheologica Acta, 2017, 56, 695-706.	2.4	1
67	Numerical design of a T-shaped microfluidic device for deformability-based separation of elastic capsules and soft beads. Physical Review E, 2017, 96, 053103.	2.1	10
68	Particle Migration due to Viscoelasticity of the Suspending Liquid and Its Relevance in Microfluidic Devices. Annual Review of Fluid Mechanics, 2017, 49, 341-360.	25.0	181
69	Analysis of dynamic mechanical response in torsion. Journal of Rheology, 2016, 60, 275-287.	2.6	25
70	Is microrheometry affected by channel deformation?. Biomicrofluidics, 2016, 10, 043501.	2.4	15
71	Finite element formulation of fluctuating hydrodynamics for fluids filled with rigid particles using boundary fitted meshes. Journal of Computational Physics, 2016, 316, 632-651.	3.8	17
72	The effect of wall slip on the dynamics of a spherical particle in Newtonian and viscoelastic fluids subjected to shear and Poiseuille flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 236, 123-131.	2.4	6

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73	Numerical simulations of deformable particle lateral migration in tube flow of Newtonian and viscoelastic media. Journal of Non-Newtonian Fluid Mechanics, 2016, 234, 105-113.	2.4	36
74	Numerical investigation of hard-gel microparticle suspension dynamics in microfluidic channels: Aggregation/fragmentation phenomena, and incipient clogging. Chemical Engineering Journal, 2016, 303, 202-216.	12.7	15
75	Numerical simulations of the separation of elastic particles in a T-shaped bifurcation. Journal of Non-Newtonian Fluid Mechanics, 2016, 233, 75-84.	2.4	6
76	Numerical simulations of the dynamics of a slippery particle in Newtonian and viscoelastic fluids subjected to shear and Poiseuille flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 228, 46-54.	2.4	13
77	Rheology of a dilute viscoelastic suspension of spheroids in unconfined shear flow. Rheologica Acta, 2015, 54, 915-928.	2.4	11
78	Hydrodynamics and Brownian motions of a spheroid near a rigid wall. Journal of Chemical Physics, 2015, 142, 194901.	3.0	36
79	Separation of particles in non-Newtonian fluids flowing in T-shaped microchannels. Advanced Modeling and Simulation in Engineering Sciences, 2015, 2, .	1.7	7
80	Hindered Brownian diffusion in a square-shaped geometry. Journal of Colloid and Interface Science, 2015, 447, 25-32.	9.4	9
81	Magnetophoresis â€~meets' viscoelasticity: deterministic separation of magnetic particles in a modular microfluidic device. Lab on A Chip, 2015, 15, 1912-1922.	6.0	56
82	Effect of fluid rheology on particle migration in a square-shaped microchannel. Microfluidics and Nanofluidics, 2015, 19, 95-104.	2.2	57
83	Microrheology with Optical Tweezers: Measuring the relative viscosity of solutions â€~at a glance'. Scientific Reports, 2015, 5, 8831.	3.3	71
84	Rheometry-on-a-chip: measuring the relaxation time of a viscoelastic liquid through particle migration in microchannel flows. Lab on A Chip, 2015, 15, 783-792.	6.0	64
85	Numerical simulations of the competition between the effects of inertia and viscoelasticity on particle migration in Poiseuille flow. Computers and Fluids, 2015, 107, 214-223.	2.5	26
86	Particle dynamics in viscoelastic liquids. Journal of Non-Newtonian Fluid Mechanics, 2015, 215, 80-104.	2.4	153
87	Microfluidic Lagrangian Trap for Brownian Particles: Three-Dimensional Focusing down to the Nanoscale. Physical Review Applied, 2014, 2, .	3.8	20
88	Migration and chaining of noncolloidal spheres suspended in a sheared viscoelastic medium. Experiments and numerical simulations. Journal of Non-Newtonian Fluid Mechanics, 2014, 203, 1-8.	2.4	24
89	Simulations of deformable systems in fluids under shear flow using an arbitrary Lagrangian Eulerian technique. Computers and Fluids, 2014, 90, 88-100.	2.5	58
90	Optimizing design and fabrication of microfluidic devices for cell cultures: An effective approach to control cell microenvironment in three dimensions. Biomicrofluidics, 2014, 8, 046503.	2.4	25

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91	Numerical simulations of linear viscoelasticity of monodisperse emulsions of Newtonian drops in a Newtonian fluid from dilute to concentrated regime. Rheologica Acta, 2014, 53, 401-416.	2.4	4
92	Bistability and metabistability scenario in the dynamics of an ellipsoidal particle in a sheared viscoelastic fluid. Physical Review E, 2014, 89, 043006.	2.1	36
93	Simulations of an elastic particle in Newtonian and viscoelastic fluids subjected to confined shear flow. Journal of Non-Newtonian Fluid Mechanics, 2014, 210, 47-55.	2.4	27
94	Particle alignment in a viscoelastic liquid flowing in a square-shaped microchannel. Lab on A Chip, 2013, 13, 4263.	6.0	98
95	Viscoelastic flow-focusing in microchannels: scaling properties of the particle radial distributions. Lab on A Chip, 2013, 13, 2802.	6.0	88
96	Dynamics of pairs and triplets of particles in a viscoelastic fluid flowing in a cylindrical channel. Computers and Fluids, 2013, 86, 45-55.	2.5	26
97	Particle motion in square channel flow of a viscoelastic liquid: Migration vs. secondary flows. Journal of Non-Newtonian Fluid Mechanics, 2013, 195, 1-8.	2.4	96
98	Rheology of viscoelastic suspensions of spheres under small and large amplitude oscillatory shear by numerical simulations. Journal of Rheology, 2013, 57, 813-839.	2.6	35
99	Nonlinear Analysis of Substrate-Inhibited Continuous Cultures Operated with Feedback Control on Dissolved Oxygen. Industrial & Engineering Chemistry Research, 2013, 52, 13422-13431.	3.7	5
100	Decoupled transient schemes for viscoelastic fluid flow with inertia. Computers and Fluids, 2012, 66, 183-193.	2.5	10
101	Single line particle focusing induced by viscoelasticity of the suspending liquid: theory, experiments and simulations to design a micropipe flow-focuser. Lab on A Chip, 2012, 12, 1638.	6.0	182
102	Temperature wave trains of the loop reactor: The effect of thermal dispersion. Chemical Engineering Science, 2012, 76, 108-119.	3.8	4
103	Modelling and simulation of a catalytic autothermal methane reformer with Rh catalyst. International Journal of Hydrogen Energy, 2012, 37, 263-275.	7.1	21
104	Migration of a sphere suspended in viscoelastic liquids in Couette flow: experiments and simulations. Rheologica Acta, 2012, 51, 215-234.	2.4	24
105	Migration of a sphere in a viscoelastic fluid under planar shear flow: Experiments and numerical predictions. Soft Matter, 2011, 7, 1100-1106.	2.7	29
106	Computational simulations of 3D large-scale time-dependent viscoelastic flows in high performance computing environment. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1382-1395.	2.4	6
107	Simulations of viscoelasticity-induced focusing of particles in pressure-driven micro-slit flow. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1396-1405.	2.4	54
108	Numerical simulations of particle migration in a viscoelastic fluid subjected to Poiseuille flow. Computers and Fluids, 2011, 42, 82-91.	2.5	31

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109	Effect of viscoelasticity on the rotation of a sphere in shear flow. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 363-372.	2.4	57
110	Determination of the optimal periodic waveform for a continuous fermentation process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 305-310.	0.4	0
111	Rheology of a Dilute Suspension of Spheres in a Viscoelastic Fluid Under Large Amplitude Oscillations. Journal of Computational and Theoretical Nanoscience, 2010, 7, 780-786.	0.4	2
112	Numerical simulations of particle migration in a viscoelastic fluid subjected to shear flow. Computers and Fluids, 2010, 39, 709-721.	2.5	51
113	On the choice of the optimal periodic operation for a continuous fermentation process. Biotechnology Progress, 2010, 26, 1580-1589.	2.6	10
114	Viscoelasticity-induced migration of a rigid sphere in confined shear flow. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 466-474.	2.4	96
115	iPP Crystallization: Micro and Nano Fillers Effects. , 2010, , .		2
116	Nonlinear Analysis of Heterogeneous Model for an Industrial Ammonia Reactor. Chemical Product and Process Modeling, 2009, 4, .	0.9	4
117	Effects of confinement on the motion of a single sphere in a sheared viscoelastic liquid. Journal of Non-Newtonian Fluid Mechanics, 2009, 157, 101-107.	2.4	28
118	Modeling Temperature Profiles of a Catalytic Autothermal Methane Reformer with Nickel Catalyst. Industrial & Engineering Chemistry Research, 2009, 48, 1804-1815.	3.7	16
119	Rotation of a sphere in a viscoelastic liquid subjected to shear flow. Part II. Experimental results. Journal of Rheology, 2009, 53, 459-480.	2.6	50
120	Rheology of carbon nanofiber-reinforced polypropylene. Rheologica Acta, 2008, 47, 425-433.	2.4	32
121	4th Annual European Rheology Conference (AERC 2007) Naples, Italy, 12–14 April 2007. Rheologica Acta, 2008, 47, 477-477.	2.4	0
122	Numerical simulation of planar elongational flow of concentrated rigid particle suspensions in a viscoelastic fluid. Journal of Non-Newtonian Fluid Mechanics, 2008, 150, 65-79.	2.4	29
123	Nanocomposite UV-cured coatings: Organoclay intercalation by an epoxy resin. Progress in Organic Coatings, 2008, 63, 110-115.	3.9	52
124	Fourier Transform Rheology of Dilute Immiscible Polymer Blends: A Novel Procedure To Probe Blend Morphology. Macromolecules, 2008, 41, 4492-4500.	4.8	65
125	Rotation of a sphere in a viscoelastic liquid subjected to shear flow. Part I: Simulation results. Journal of Rheology, 2008, 52, 1331-1346.	2.6	77
126	Rheology of dilute and semidilute noncolloidal hard sphere suspensions. Journal of Rheology, 2008, 52, 1369-1384.	2.6	33

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127	Bifurcational and dynamical analysis of a continuous biofilm reactor. Journal of Biotechnology, 2008, 135, 295-303.	3.8	21
128	Rotation of a Sphere in a Viscoelastic Fluid under Flow. AIP Conference Proceedings, 2008, , .	0.4	0
129	Effect of the Switch Strategy on the Stability of Reactor Networks. Industrial & Engineering Chemistry Research, 2007, 46, 6510-6521.	3.7	15
130	Quantifying dispersion of layered nanocomposites via melt rheology. Journal of Rheology, 2007, 51, 429-450.	2.6	232
131	A new methodology for the estimation of drop size distributions of dilute polymer blends based on LAOS flows. Journal of Non-Newtonian Fluid Mechanics, 2007, 143, 48-58.	2.4	15
132	Rheology of a dilute suspension of rigid spheres in a second order fluid. Journal of Non-Newtonian Fluid Mechanics, 2007, 147, 1-10.	2.4	41
133	A numerical method for simulating concentrated rigid particle suspensions in an elongational flow using a fixed grid. Journal of Computational Physics, 2007, 226, 688-711.	3.8	20
134	Complex dynamics and spatio-temporal patterns in a network of three distributed chemical reactors with periodical feed switching. Chaos, Solitons and Fractals, 2006, 28, 682-706.	5.1	26
135	Start-up and retraction dynamics of a Newtonian drop in a viscoelastic matrix under simple shear flow, Journal of Non-Newtonian Fluid Mechanics, 2006, 134, 27,32 A critical appraisal of the <mmi:math <="" altimg="si36.gif" display="inline" overflow="scroll" td=""><td>2.4</td><td>25</td></mmi:math>	2.4	25
136	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	3.8	10
137	xmins:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmins:ce="http://www.Chemical Engi Nonlinear dynamics of a VOC combustion loop reactor. AICHE Journal, 2006, 52, 2812-2822.	3.6	22
138	Single Drop Dynamics under Shearing Flow in Systems with a Viscoelastic Phase. Macromolecular Symposia, 2005, 228, 31-40.	0.7	8
139	Analysis of start-up dynamics of a single drop through an ellipsoidal drop model for non-Newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2005, 126, 145-151.	2.4	15
140	A model of the dynamics of a fluidized bed combustor burning biomass. Combustion and Flame, 2005, 140, 371-384.	5.2	24
141	Short-term ursodeoxycholic acid treatment improves gallbladder bile turnover in gallstone patients: a randomized trial. Neurogastroenterology and Motility, 2005, 17, 680-686.	3.0	10
142	Stress Tensor of a Dilute Suspension of Spheres in a Viscoelastic Liquid. Physical Review Letters, 2005, 95, 246001.	7.8	14
143	Dynamics of a Methanol Reformer for Automotive Applications. Industrial & Engineering Chemistry Research, 2005, 44, 759-768.	3.7	14
144	Combining Catalytic Combustion and Steam Reforming in a Novel Multifunctional Reactor for On-Board Hydrogen Production from Middle Distillates. Industrial & Engineering Chemistry Research. 2005. 44. 9422-9430.	3.7	33

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145	NONLINEAR ANALYSIS OF A NETWORK OF THREE CONTINUOUS STIRRED TANK REACTORS WITH PERIODIC FEED SWITCHING: SYMMETRY AND SYMMETRY-BREAKING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1325-1341.	1.7	12
146	Newtonian drop in a Newtonian matrix subjected to large amplitude oscillatory shear flows. Rheologica Acta, 2004, 43, 575-583.	2.4	27
147	Continuum theory for nematic liquid crystals with tensorial order. Journal of Non-Newtonian Fluid Mechanics, 2004, 119, 51-59.	2.4	71
148	Effects of the degree of undercooling on flow induced crystallization in polymer melts. Polymer, 2004, 45, 3249-3256.	3.8	83
149	Ellipsoidal drop model for single drop dynamics with non-Newtonian fluids. Journal of Rheology, 2004, 48, 83-100.	2.6	68
150	Morphology estimation from normal stress measurements for dilute immiscible polymer blends. Rheologica Acta, 2003, 42, 158-165.	2.4	7
151	Effect of short-time treatment with ursodeoxycholic acid on postprandial gallbladder bile flow in gallstone patients: a statistical-mathematical analysis of ultrasonographic data. Gastroenterology, 2003, 124, A247.	1.3	0
152	Nonlinear dynamics of a concentrated system of rigid rods subjected to periodic shear flow. Journal of Rheology, 2003, 47, 129-141.	2.6	4
153	Quiescent and flow-induced transitional behavior of hydroxypropylcellulose solutions. Journal of Chemical Physics, 2003, 118, 5195-5200.	3.0	11
154	Non linear dynamics of a network of reactors with periodical feed switching. Computer Aided Chemical Engineering, 2002, 10, 535-540.	0.5	0
155	Coupling between kinetics and rheological parameters in the flow-induced crystallization of thermoplastic polymers. Macromolecular Symposia, 2002, 185, 233-241.	0.7	30
156	Symmetry properties and bifurcation analysis of a class of periodically forced chemical reactors. Chemical Engineering Science, 2002, 57, 5065-5082.	3.8	31
157	Prediction of Chaotic Dynamics in Sheared Liquid Crystalline Polymers. Physical Review Letters, 2001, 86, 3184-3187.	7.8	68
158	Microrheological Modeling of Flow-Induced Crystallization. Macromolecules, 2001, 34, 5030-5036.	4.8	157
159	Nonlinear analysis of an industrial ammonia reactor with heterogeneous model. Computer Aided Chemical Engineering, 2001, 9, 225-230.	0.5	2
160	Multistability and hysteresis in an industrial ammonia reactor. AICHE Journal, 2000, 46, 824-828.	3.6	28
161	Non-linear dynamics of a self-igniting reaction–diffusion system. Chemical Engineering Science, 2000, 55, 303-309.	3.8	14
162	A laboratory spiral disk extruder for flow visualization. Polymer Engineering and Science, 2000, 40, 2262-2271.	3.1	1

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163	Rheology and rheological morphology determination in immiscible two-phase polymer model blends. Journal of Non-Newtonian Fluid Mechanics, 2000, 93, 153-165.	2.4	44
164	Flow of nematic polymers in eccentric cylinder geometry: influence of closure approximations. Journal of Non-Newtonian Fluid Mechanics, 2000, 94, 119-134.	2.4	11
165	Shear-induced biaxiality in nematic polymers. Journal of Non-Newtonian Fluid Mechanics, 2000, 90, 283-297.	2.4	17
166	A closure approximation for nematic liquid crystals based on the canonical distribution subspace theory. Rheologica Acta, 2000, 39, 301-310.	2.4	29
167	Drop shape dynamics under shear-flow reversal. Journal of Rheology, 2000, 44, 1385-1399.	2.6	53
168	The dynamics of two dimensional polymer nematics1Dedicated to the memory of Professor Gianni Astarita1. Journal of Non-Newtonian Fluid Mechanics, 1998, 76, 233-247.	2.4	14
169	Equation of change for ellipsoidal drops in viscous flow. Journal of Non-Newtonian Fluid Mechanics, 1998, 78, 227-241.	2.4	293
170	Interactions between flow and superstructure of liquid crystalline polymers. Macromolecular Symposia, 1997, 124, 49-57.	0.7	1
171	Extensional Flow of a Two-Dimensional Polymer Liquid Crystal. Macromolecules, 1996, 29, 8473-8478.	4.8	24
172	Engineering problem involving diophantine algebra. AICHE Journal, 1996, 42, 3296-3299.	3.6	0
173	Characteriation of chaotic dynamics in the spontaneous combustion of coal stockpiles. Proceedings of the Combustion Institute, 1996, 26, 1585-1592.	0.3	6
174	Bifurcation analysis of a molecular model for nematic polymers in shear flows. Journal of Non-Newtonian Fluid Mechanics, 1995, 59, 73-91.	2.4	31
175	Dynamic characterization of liquid crystalline polymers under flowâ€aligning shear conditions. Journal of Chemical Physics, 1994, 100, 7736-7743.	3.0	42
176	The rigid rod model for nematic polymers: Testing closure approximations with bifurcation analysis. Journal of Rheology, 1994, 38, 1559-1570.	2.6	20
177	Stability of multislit devolatilization of polymers. AICHE Journal, 1993, 39, 140-148.	3.6	4
178	Polymer devolatilization: State of the art. Makromolekulare Chemie Macromolecular Symposia, 1993, 68, 1-12.	0.6	3
179	DEVOLATILIZATION OF POLYMERS. , 1993, , 419-444.		5
180	A constitutive equation for monodomains of nematic polymers. Journal of Non-Newtonian Fluid Mechanics, 1992, 45, 339-354.	2.4	12

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181	POLYMER DEVOLATILIZATION: HOW IMPORTANT IS RHEOLOGY?. , 1992, , 366-368.		1
182	A two-dimensional approach to the constitutive equation of nematic polymers. Journal of Non-Newtonian Fluid Mechanics, 1991, 38, 273-288.	2.4	24
183	Slit devolatilization of polymers. AICHE Journal, 1991, 37, 724-734.	3.6	11
184	Nematic phase of rodlike polymers. I. Prediction of transient behavior at high shear rates. Journal of Rheology, 1990, 34, 1217-1230.	2.6	85
185	A description of the liquid-crystalline phase of rodlike polymers at high shear rates. Macromolecules, 1989, 22, 4076-4082.	4.8	313
186	Band formation in HPC solutions by consecutive shears along orthogonal directions. Liquid Crystals, 1989, 4, 385-391.	2.2	23