Patrick Anderson

List of Publications by Year
in descending order

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174	4,424	81900	138484
papers	citations	39 h-index	58 g-index

177	177	177	3252
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artificial cilia for active micro-fluidic mixing. Lab on A Chip, 2008, 8, 533.	6.0	250
2	Numerical investigation of the effect of insoluble surfactants on drop deformation and breakup in simple shear flow. Journal of Colloid and Interface Science, 2006, 298, 369-394.	9.4	124
3	Comparison of various fluidâ€“structure interaction methods for deformable bodies. Computers and Structures, 2007, 85, 833-843.	4.4	124
4	A fluidâ€“structure interaction method with solid-rigid contact for heart valve dynamics. Journal of Computational Physics, 2006, 217, 806-823.	3.8	123
5	On the performance of static mixers: A quantitative comparison. Progress in Polymer Science, 2012, 37, 1333-1349.	24.7	103
6	A combined fictitious domain/adaptive meshing method for fluidâ€“structure interaction in heart valves. International Journal for Numerical Methods in Fluids, 2004, 46, 533-544.	1.6	100
7	Active micromixer based on artificial cilia. Physics of Fluids, 2007, 19, .	4.0	99
8	Chaotic mixing induced by a magnetic chain in a rotating magnetic field. Physical Review E, 2007, 76, 066303.	2.1	87
9	Capillary spreading of a droplet in the partially wetting regime using a diffuse-interface model. Journal of Fluid Mechanics, 2007, 572, 367-387.	3.4	83
10	Boundary-integral method for drop deformation between parallel plates. Physics of Fluids, 2007, 19, 043602.	4.0	79
11	Nature-inspired microfluidic propulsion using magnetic actuation. Physical Review E, 2009, 79, 046304.	2.1	74
12	Model Development and Validation of Crystallization Behavior in Injection Molding Prototype Flows. Macromolecular Theory and Simulations, 2009, 18, 469-494.	1.4	74
13	Analyzing mixing in periodic flows by distribution matrices: Mapping method. AICHE Journal, 2001, 47, 1005-1015.	3.6	73
14	Understanding and Optimizing the SMX Static Mixer. Macromolecular Rapid Communications, 2009, 30, 362-376.	3.9	65
15	Passive and Active Mixing in Microfluidic Devices. Macromolecular Symposia, 2009, 279, 201-209.	0.7	65
16	Diffuse-interface modelling of droplet impact. Journal of Fluid Mechanics, 2007, 581, 97-127.	3.4	64
17	Microfluidic Magnetic Mixing at Low Reynolds Numbers and in Stagnant Fluids. Micromachines, 2019, 10, 731.	2.9	64
18	Chaotic mixing using periodic and aperiodic sequences of mixing protocols in a micromixer. Microfluidics and Nanofluidics, 2008, 4, 589-599.	2.2	63

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19	Nonsingular boundary integral method for deformable drops in viscous flows. Physics of Fluids, 2004, 16, 1064-1081.	4.0	59
20	Out of the cleanroom, self-assembled magnetic artificial cilia. Lab on A Chip, 2013, 13, 3360.	6.0	58
21	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
22	The mapping method as a toolbox to analyze, design, and optimize micromixers. Microfluidics and Nanofluidics, 2008, 5, 313-325.	2.2	56
23	Analysis and Optimization of Kenics Static Mixers. International Polymer Processing, 2003, 18, 138-150.	0.5	54
24	A chaotic serpentine mixer efficient in the creeping flow regime: from design concept to optimization. Microfluidics and Nanofluidics, 2009, 7, 783.	2.2	52
25	An adaptive front tracking technique for three-dimensional transient flows. International Journal for Numerical Methods in Fluids, 2000, 32, 201-217.	1.6	51
26	A direct simulation method for flows with suspended paramagnetic particles. Journal of Computational Physics, 2008, 227, 4441-4458.	3.8	50
27	Breaking of symmetry in microfluidic propulsion driven by artificial cilia. Physical Review E, 2010, 82, 027302.	2.1	50
28	Simulation of distributive mixing inside mixing elements of co-rotating twin-screw extruders. Computers and Fluids, 2013, 87, 79-91.	2.5	50
29	A ternary model for double-emulsion formation in a capillary microfluidic device. Lab on A Chip, 2012, 12, 2672.	6.0	49
30	Analysis of mixing in three-dimensional time-periodic cavity flows. Journal of Fluid Mechanics, 1999, 386, 149-166.	3.4	48
31	Generalized behavior of the breakup of viscous drops in confinements. Journal of Rheology, 2010, 54, 1047-1060.	2.6	48
32	Modeling Film Drainage and Coalescence of Drops in a Viscous Fluid. Macromolecular Materials and Engineering, 2011, 296, 238-248.	3.6	48
33	On scaling of diffuseâ€“interface models. Chemical Engineering Science, 2006, 61, 2364-2378.	3.8	45
34	Diffuse interface modeling of the morphology and rheology of immiscible polymer blends. Physics of Fluids, 2003, 15, 2567-2575.	4.0	44
35	Axisymmetric boundary integral simulations of film drainage between two viscous drops. Journal of Fluid Mechanics, 2006, 567, 65.	3.4	44
36	Inertial flow effects in a micro-mixer based on artificial cilia. Lab on A Chip, 2009, 9, 2326.	6.0	44

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37	Artificial cilia fabricated using magnetic fiber drawing generate substantial fluid flow. Microfluidics and Nanofluidics, 2015, 18, 167-174.	2.2	43
38	A boundary-integral model for drop deformation between two parallel plates with non-unit viscosity ratio drops. Journal of Computational Physics, 2008, 227, 8807-8819.	3.8	42
39	Mixing of non-Newtonian fluids in time-periodic cavity flows. Journal of Non-Newtonian Fluid Mechanics, 2000, 93, 265-286.	2.4	40
40	Viscoelastic Effects in Multilayer Polymer Extrusion. Applied Rheology, 2006, 16, 198-205.	5.2	40
41	Collective dynamics of confined rigid spheres and deformable drops. Soft Matter, 2012, 8, 7495.	2.7	39
42	A continuous roll-pulling approach for the fabrication of magnetic artificial cilia with microfluidic pumping capability. Lab on A Chip, 2016, 16, 2277-2286.	6.0	39
43	Computational interfacial rheology. Journal of Non-Newtonian Fluid Mechanics, 2021, 290, 104507.	2.4	38
44	A three-dimensional fluidâ€“structure interaction method for heart valve modelling. Comptes Rendus - Mecanique, 2005, 333, 856-866.	2.1	37
45	Chaotic fluid mixing in non-quasi-static time-periodic cavity flows. International Journal of Heat and Fluid Flow, 2000, 21, 176-185.	2.4	35
46	Morphology Development in Kenics Static Mixers (Application of the Extended Mapping Method). Canadian Journal of Chemical Engineering, 2002, 80, 604-613.	1.7	35
47	Microconfined equiviscous droplet deformation: Comparison of experimental and numerical results. Physics of Fluids, 2008, 20, .	4.0	32
48	Tools to Simulate Distributive Mixing in Twinâ€Screw Extruders. Macromolecular Theory and Simulations, 2012, 21, 217-240.	1.4	32
49	Adaptive nonâ€conformal mesh refinement and extended finite element method for viscous flow inside complex moving geometries. International Journal for Numerical Methods in Fluids, 2012, 68, 1031-1052.	1.6	32
50	Direct numerical simulation of particle alignment in viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 125-142.	2.4	32
51	A mapping approach for three-dimensional distributive mixing analysis. Computers and Fluids, 2001, 30, 271-289.	2.5	31
52	Stokesâ€“Cahnâ€“Hilliard formulations and simulations of two-phase flows with suspended rigid particles. Computers and Fluids, 2015, 111, 1-17.	2.5	31
53	A global, multi-scale simulation of laminar fluid mixing: the extended mapping method. International Journal of Multiphase Flow, 2002, 28, 497-523.	3.4	29
54	Chaotic advection using passive and externally actuated particles in a serpentine channel flow. Chemical Engineering Science, 2007, 62, 6677-6686.	3.8	29

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55	Diffuse Interface Modeling of Droplet Impact on a Pre-Patterned Solid Surface. Macromolecular Rapid Communications, 2005, 26, 298-303.	3.9	27
56	A simplified approach to compute distribution matrices for the mapping method. Computers and Chemical Engineering, 2009, 33, 1354-1362.	3.8	27
57	Analysis and optimization of lowâ€pressure drop static mixers. AICHE Journal, 2009, 55, 2208-2216.	3.6	26
58	Laser sintering of polymer particle pairs studied by in situ visualization. Soft Matter, 2019, 15, 1373-1387.	2.7	25
59	Mapping approach for 3D laminar mixing simulations: application to industrial flows. International Journal for Numerical Methods in Fluids, 2002, 40, 345-351.	1.6	24
60	Eigenmode analysis of scalar transport in distributive mixing. Physics of Fluids, 2009, 21, .	4.0	24
61	Experimental and computational study on structure development of PMMA/SAN blends. Chemical Engineering Science, 2007, 62, 1825-1837.	3.8	23
62	Footprints of Lagrangian flow structures in Eulerian concentration distributions in periodic mixing flows. Physica D: Nonlinear Phenomena, 2013, 250, 20-33.	2.8	23
63	Simulations of the start-up of shear flow of 2D particle suspensions in viscoelastic fluids: Structure formation and rheology. Journal of Non-Newtonian Fluid Mechanics, 2015, 225, 70-85.	2.4	22
64	Cahnâ€“Hilliard modeling of particles suspended in twoâ€phase flows. International Journal for Numerical Methods in Fluids, 2012, 69, 995-1015.	1.6	21
65	Temperature-dependent sintering of two viscous particles. Additive Manufacturing, 2018, 24, 528-542.	3.0	21
66	Chaotic Mixing Analyses by Distribution Matrices. Applied Rheology, 2000, 10, 119-133.	5.2	20
67	Chaotic advection in a cavity flow with rigid particles. Physics of Fluids, 2005, 17, 043602.	4.0	20
68	Optimizing the rotated arc mixer. AICHE Journal, 2008, 54, 2809-2822.	3.6	20
69	Modelling flow induced crystallization of IPP: Multiple crystal phases and morphologies. Polymer, 2019, 182, 121806.	3.8	20
70	Surfactant-covered drops between parallel plates. Chemical Engineering Research and Design, 2008, 86, 1388-1396.	5.6	19
71	Sintering of Two Viscoelastic Particles: A Computational Approach. Applied Sciences (Switzerland), 2017, 7, 516.	2.5	19
72	Nonâ€<scp>I</scp>sothermal Modeling of a Nonâ€<scp>N</scp>ewtonian Fluid Flow in a Twin Screw Extruder Using the Fictitious Domain Method. Macromolecular Theory and Simulations, 2013, 22, 462-474.	1.4	18

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73	The Effect of Inertia on the Flow and Mixing Characteristics of a Chaotic Serpentine Mixer. Micromachines, 2014, 5, 1270-1286.	2.9	18
74	Stability and breakup of confined threads. Physics of Fluids, 2012, 24, .	4.0	17
75	Direct simulation of the dynamics of two spherical particles actuated magnetically in a viscous fluid. Computers and Fluids, 2013, 86, 569-581.	2.5	17
76	Monocytic Cells Become Less Compressible but More Deformable upon Activation. PLoS ONE, 2014, 9, e92814.	2.5	17
77	Application of mortar elements to diffuse-interface methods. Computers and Fluids, 2006, 35, 1384-1399.	2.5	16
78	Material stretching in laminar mixing flows: extended mapping technique applied to the journal bearing flow. International Journal for Numerical Methods in Fluids, 2002, 40, 189-196.	1.6	15
79	Shear-Induced Migration of Rigid Particles near an Interface between a Newtonian and a Viscoelastic Fluid. Langmuir, 2018, 34, 1795-1806.	3.5	15
80	Fluctuating viscoelasticity. Journal of Non-Newtonian Fluid Mechanics, 2018, 256, 42-56.	2.4	15
81	Drag on a spherical particle at the airâ€“liquid interface: Interplay between compressibility, Marangoni flow, and surface viscosities. Physics of Fluids, 2021, 33, .	4.0	15
82	Effects of partial miscibility on drop-wall and drop-drop interactions. Journal of Rheology, 2010, 54, 159-183.	2.6	14
83	Flow Visualisation in Co-rotating Twin Screw Extruders: Positron Emission Particle Tracking and Numerical Particle Trajectories. International Polymer Processing, 2011, 26, 540-550.	0.5	14
84	Viscoelastic fluid flow simulation using the contravariant deformation formulation. Journal of Non-Newtonian Fluid Mechanics, 2019, 270, 23-35.	2.4	14
85	A new adaptation of mapping method to study mixing of multiphase flows in mixers with complex geometries. Computers and Chemical Engineering, 2008, 32, 1471-1481.	3.8	13
86	Extended finite element method for viscous flow inside complex threeâ€dimensional geometries with moving internal boundaries. International Journal for Numerical Methods in Fluids, 2012, 70, 775-792.	1.6	13
87	Modeling of complex interfaces for pendant drop experiments. Rheologica Acta, 2016, 55, 801-822.	2.4	13
88	Physical Ageing of Polystyrene: Does Tacticity Play a Role?. Macromolecules, 2019, 52, 5948-5954.	4.8	13
89	A novel experimental setup for in situ optical and X-ray imaging of laser sintering of polymer particles. Review of Scientific Instruments, 2019, 90, 083905.	1.3	13
90	Simulation of bubble growth during the foaming process and mechanics of the solid foam. Rheologica Acta, 2019, 58, 131-144.	2.4	13

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91	Structure development during chaotic mixing in the journal bearing flow. Physics of Fluids, 2002, 14, 3009-3017.	4.0	12
92	Phase separation of viscous ternary liquid mixtures. Chemical Engineering Science, 2012, 80, 270-278.	3.8	12
93	Spectral analysis of mixing in chaotic flows via the mapping matrix formalism: Inclusion of molecular diffusion and quantitative eigenvalue estimate in the purely convective limit. Physics of Fluids, 2012, 24, .	4.0	12
94	Numerical investigation of the effect of insoluble surfactant on drop formation in microfluidic device. European Physical Journal: Special Topics, 2013, 222, 199-210.	2.6	12
95	Contact mechanics of isotactic polypropylene: Effect of pre-stretch on the frictional response. Wear, 2018, 398-399, 183-190.	3.1	12
96	Effect of lowâ€temperature physical aging on the dynamic transitions of atactic polystyrene in the glassy state. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1394-1401.	2.1	12
97	Benchmark solutions for flows with rheologically complex interfaces. Journal of Non-Newtonian Fluid Mechanics, 2020, 286, 104436.	2.4	12
98	An efficient approach for eigenmode analysis of transient distributive mixing by the mapping method. Physics of Fluids, 2012, 24, .	4.0	11
99	Analysis of the advectionâ€“diffusion mixing by the mapping method formalism in 3D openâ€flow devices. AICHE Journal, 2014, 60, 387-407.	3.6	11
100	Isogeometric boundary integral analysis of drops and inextensible membranes in isoviscous flow. Computers and Fluids, 2015, 109, 49-66.	2.5	11
101	On the streamfunctionâ€“vorticity formulation in sliding bi-period frames: Application to bulk behavior for polymer blends. Journal of Computational Physics, 2006, 212, 268-287.	3.8	10
102	Modelling of polymer fluid flow and residence time distribution in twin screw extruder using fictitious domain method. Plastics, Rubber and Composites, 2011, 40, 387-396.	2.0	10
103	Exploiting numerical diffusion to study transport and chaotic mixing for extremely large PÃ©clet values. Europhysics Letters, 2012, 97, 14002.	2.0	10
104	Direct numerical simulation of a 2D-stented aortic heart valve at physiological flow rates. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 1157-1179.	1.6	10
105	Two-subsystem thermodynamics for the mechanics of aging amorphous solids. Continuum Mechanics and Thermodynamics, 2017, 29, 647-663.	2.2	10
106	Effect of particle-size dynamics on properties of dense spongy-particle systems: Approach towards equilibrium. Physical Review E, 2017, 96, 012604.	2.1	10
107	Torsional fracture of viscoelastic liquid bridges. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
108	Boundary Integral Method for Deformable Interfaces in the Presence of Insoluble Surfactants. Lecture Notes in Computer Science, 2004, , 355-362.	1.3	10

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109	Experimental/Numerical Analysis of Chaotic Advection in a Three-dimensional Cavity Flow. International Polymer Processing, 2006, 21, 412-420.	0.5	9
110	Direct numerical simulation of a bubble suspension in small amplitude oscillatory shear flow. Rheologica Acta, 2017, 56, 555-565.	2.4	9
111	A processing route to spherical polymer particles via controlled droplet retraction. Powder Technology, 2021, 388, 401-411.	4.2	9
112	Weakly-imposed Dirichlet boundary conditions for non-Newtonian fluid flow. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 993-1003.	2.4	8
113	Structure development of PMMA/SAN blends in shear flow. Chemical Engineering Science, 2011, 66, 4960-4971.	3.8	8
114	Simulation and eigenmode analysis of advectiveâ€“diffusive transport in micromixers by the diffusive mapping method. Chemical Engineering Science, 2014, 107, 30-46.	3.8	8
115	Effect of particle-size dynamics on flow properties of dense spongy-particle systems. Journal of Rheology, 2018, 62, 543-557.	2.6	8
116	On the validity of 2D analysis of non-isothermal sintering in SLS. Chemical Engineering Science, 2020, 213, 115365.	3.8	8
117	A filament stretching rheometer for in situ X-ray experiments: Combining rheology and crystalline morphology characterization. Review of Scientific Instruments, 2020, 91, 073903.	1.3	8
118	Liquid bridge length scale based nondimensional groups for mapping transitions between regimes in capillary break-up experiments. Physical Review Fluids, 2020, 5, .	2.5	8
119	Transient interfacial tension of partially miscible polymers. Journal of Colloid and Interface Science, 2008, 325, 130-140.	9.4	7
120	Numerical Study of the Effect of Thixotropy on Extrudate Swell. Polymers, 2021, 13, 4383.	4.5	7
121	Symmetry of periodic structures in a 3D mixing cavity flow. Physics of Fluids, 2000, 12, 469-471.	4.0	6
122	Diffuse-interface modeling of three-phase interactions. Applied Physics Letters, 2016, 108, .	3.3	6
123	Singular eigenvalue limit of advection-diffusion operators and properties of the strange eigenfunctions in globally chaotic flows. European Physical Journal: Special Topics, 2017, 226, 2247-2262.	2.6	6
124	The deformation fields method revisited: Stable simulation of instationary viscoelastic fluid flow using integral models. Journal of Non-Newtonian Fluid Mechanics, 2018, 262, 68-78.	2.4	6
125	Stress relaxation of dense spongy-particle systems. Journal of Rheology, 2018, 62, 831-843.	2.6	6
126	Contact mechanics of high-density polyethylene: Effect of pre-stretch on the frictional response and the onset of wear. Wear, 2018, 410-411, 142-148.	3.1	6

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127	A Numerical Study of Particle Migration and Sedimentation in Viscoelastic Couette Flow. Fluids, 2019, 4, 25.	1.7	6
128	Behavior of viscoelastic models with thermal fluctuations. European Physical Journal E, 2020, 43, 24.	1.6	6
129	Numerical analysis of the crystallization kinetics in SLS. Additive Manufacturing, 2020, 33, 101126.	3.0	6
130	Constitutive framework for rheologically complex interfaces with an application to elastoviscoplasticity. Journal of Non-Newtonian Fluid Mechanics, 2022, 301, 104726.	2.4	6
131	Laser sintering of PA12 particles studied by in-situ optical, thermal and X-ray characterization. Additive Manufacturing, 2022, 52, 102624.	3.0	6
132	Residual stresses in gas-assisted injection molding. Rheologica Acta, 2010, 49, 23-44.	2.4	5
133	A slender-body theory for low-viscosity drops in shear flow between parallel walls. Physics of Fluids, 2010, 22, 042002.	4.0	5
134	A microscale pulsatile flow device for dynamic cross-slot rheometry. Sensors and Actuators A: Physical, 2014, 220, 221-229.	4.1	5
135	A comparison between the XFEM and a boundary-fitted mesh method for the simulation of rigid particles in Cahnâ€“Hilliard fluids. Computers and Fluids, 2017, 148, 121-136.	2.5	5
136	The effect of an adhesive interaction on predicting the scratch response of PS/PPO blends. Polymer, 2019, 172, 91-99.	3.8	5
137	Polarization modulated infrared spectroscopy: A pragmatic tool for polymer science and engineering. Polymer Crystallization, 2020, 3, e10138.	0.8	5
138	Finite Element Modeling of a Viscous Fluid Flowing through an External Gear Pump. Macromolecular Theory and Simulations, 2021, 30, 2000060.	1.4	5
139	A 2D hysteretic DEM model for arbitrarily shaped polygonal particles. Powder Technology, 2021, 378, 327-338.	4.2	5
140	Magnetic bead mixing in a microfluidic chamber induced by an in-plane rotating magnetic field. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	5
141	Simulation of Agglomerate Dispersion in Cubic Cavity Flow. Macromolecular Theory and Simulations, 2009, 18, 201-208.	1.4	4
142	Analysis of Advectiveâ€“Diffusive Transport in Complex Mixing Devices by the Diffusive Mapping Method. Macromolecular Theory and Simulations, 2015, 24, 322-334.	1.4	4
143	Magnetic interaction of Janus magnetic particles suspended in a viscous fluid. Physical Review E, 2016, 93, 022607.	2.1	4
144	Modeling the shape dynamics of suspensions of permeable ellipsoidal particles. Journal of Non-Newtonian Fluid Mechanics, 2018, 259, 23-31.	2.4	4

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145	A numerical model for the development of the morphology of disperse blends in complex flow. Rheologica Acta, 2019, 58, 79-95.	2.4	4
146	Head-on collision of Newtonian drops in a viscoelastic medium. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	4
147	Towards unraveling the sintering process of two polystyrene particles by numerical simulations. Korea Australia Rheology Journal, 2019, 31, 285-295.	1.7	4
148	Transient dynamics of coldâ€rolled and subsequently thermally rejuvenated atacticâ€polystyrene using broadband dielectric spectroscopy. Journal of Polymer Science, 2020, 58, 1998-2009.	3.8	4
149	Structure formation in suspensions under uniform electric or magnetic field. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2021, 4, 77-97.	2.1	4
150	Numerical simulations of the polydisperse droplet size distribution of disperse blends in complex flow. Rheologica Acta, 2021, 60, 187-207.	2.4	4
151	An extended finite element method for a diffuse-interface model. Journal of Computational and Applied Mathematics, 2014, 272, 25-40.	2.0	3
152	Fluid Flow and Distributive Mixing Analysis in the Cavity Transfer Mixer. Macromolecular Theory and Simulations, 2018, 27, 1700075.	1.4	3
153	Characterization of structures of particles. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	3
154	A numerical study of extensional flowâ€induced crystallization in filament stretching rheometry. Polymer Crystallization, 2021, 4, e10154.	0.8	3
155	Towards a universal shear correction factor in filament stretching rheometry. Rheologica Acta, 2021, 60, 691-709.	2.4	3
156	Towards the Development of a Strategy to Characterize and Model the Rheological Behavior of Filled, Uncured Rubber Compounds. Polymers, 2021, 13, 4068.	4.5	3
157	Short-time behavior of advecting-diffusing scalar fields in Stokes flows. Physical Review E, 2013, 87, 063011.	2.1	2
158	Two-scale model for the effect of physical aging in elastomers filled with hard nanoparticles. Journal of Computational Physics, 2017, 350, 184-206.	3.8	2
159	Fully implicit interface tracking for a viscous drop under simple shear. Computers and Fluids, 2019, 184, 91-98.	2.5	2
160	Thermo-mechanically coupled modelling of a single-asperity scratch on an isotropic isotactic polypropylene surface. Tribology International, 2020, 141, 105946.	5.9	2
161	Uniaxial and Biaxial Response of Anisotropic Polypropylene. Macromolecular Theory and Simulations, 2020, 29, 2000018.	1.4	2
162	Two Component Injection Molding of Phase Separating Blends. International Polymer Processing, 2006, 21, 168-174.	0.5	1

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163	Rheology, Mixing, and Flow of Polymeric Materials. Macromolecular Materials and Engineering, 2011, 296, 201-202.	3.6	1
164	Structure evolution of suspensions under time-dependent electric or magnetic field. Multiscale and Multidisciplinary Modeling, Experiments and Design, 0, , 1.	2.1	1
165	Numerical stability of four positive (semi-)definite reformulations for viscoelastic fluid models in benchmark flows. Journal of Non-Newtonian Fluid Mechanics, 2021, 297, 104666.	2.4	1
166	Threeâ€Ðimensional Finite Element Modeling Of A Viscous Fluid Flowing Through An External Gear Pump. Macromolecular Theory and Simulations, 2022, 31, 2100046.	1.4	1
167	Numerical Study of Residual Stresses Due to External Cooling in Extruded Polymer Profiles. Macromolecular Theory and Simulations, 0, , 2100074.	1.4	1
168	The effect of non-Newtonian behavior on contact formation in an external gear pump. Journal of Non-Newtonian Fluid Mechanics, 2022, , 104818.	2.4	1
169	Bio-inspired Microfluidic Propulsion Through Magnetically-actuated Cilia. Materials Research Society Symposia Proceedings, 2009, 1191, 42.	0.1	0
170	Numerical Study on Mixing in a Chaotic Serpentine Mixer Using a Mapping Method. , 2009, , .		0
171	Probing Red Blood Cell Dynamics. , 2012, , .		0
172	USNCCM-11: Computational fluid mechanics for free and moving boundary problems. Computers and Fluids, 2013, 87, 1.	2.5	0
173	Phase separation of viscous ternary liquid mixtures. , 2012, , 73-91.		0
174	Numerical Modeling of the Blend Morphology Evolution in Twinâ€Screw Extruders. Macromolecular Theory and Simulations, 2022, 31, .	1.4	0