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	Threeâ€Dimensional Finite Element Modeling Of A Viscous Fluid Flowing Through An External Gear Pump. Macromolecular Theory and Simulations, 2022, 31, 2100046.	1.4	1
2	Constitutive framework for rheologically complex interfaces with an application to elastoviscoplasticity. Journal of Non-Newtonian Fluid Mechanics, 2022, 301, 104726.	2.4	6
3	Magnetic bead mixing in a microfluidic chamber induced by an in-plane rotating magnetic field. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	5
4	Numerical Modeling of the Blend Morphology Evolution in Twinâ€Screw Extruders. Macromolecular Theory and Simulations, 2022, 31, .	1.4	0
5	Laser sintering of PA12 particles studied by in-situ optical, thermal and X-ray characterization. Additive Manufacturing, 2022, 52, 102624.	3.0	6
6	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
7	Finite Element Modeling of a Viscous Fluid Flowing through an External Gear Pump. Macromolecular Theory and Simulations, 2021, 30, 2000060.	1.4	5
8	A 2D hysteretic DEM model for arbitrarily shaped polygonal particles. Powder Technology, 2021, 378, 327-338.	4.2	5
9	A numerical study of extensional flowâ€induced crystallization in filament stretching rheometry. Polymer Crystallization, 2021, 4, e10154.	0.8	3
10	Structure formation in suspensions under uniform electric or magnetic field. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2021, 4, 77-97.	2.1	4
11	Numerical simulations of the polydisperse droplet size distribution of disperse blends in complex flow. Rheologica Acta, 2021, 60, 187-207.	2.4	4
12	Computational interfacial rheology. Journal of Non-Newtonian Fluid Mechanics, 2021, 290, 104507.	2.4	38
13	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
14	Torsional fracture of viscoelastic liquid bridges. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
15	A processing route to spherical polymer particles via controlled droplet retraction. Powder Technology, 2021, 388, 401-411.	4.2	9
16	Towards a universal shear correction factor in filament stretching rheometry. Rheologica Acta, 2021, 60, 691-709.	2.4	3
17	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
18	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

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19	Numerical Study of the Effect of Thixotropy on Extrudate Swell. Polymers, 2021, 13, 4383.	4.5	7
20	Thermo-mechanically coupled modelling of a single-asperity scratch on an isotropic isotactic polypropylene surface. Tribology International, 2020, 141, 105946.	5.9	2
21	On the validity of 2D analysis of non-isothermal sintering in SLS. Chemical Engineering Science, 2020, 213, 115365.	3.8	8
22	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
23	Uniaxial and Biaxial Response of Anisotropic Polypropylene. Macromolecular Theory and Simulations, 2020, 29, 2000018.	1.4	2
24	Behavior of viscoelastic models with thermal fluctuations. European Physical Journal E, 2020, 43, 24.	1.6	6
25	Benchmark solutions for flows with rheologically complex interfaces. Journal of Non-Newtonian Fluid Mechanics, 2020, 286, 104436.	2.4	12
26	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
27	Characterization of structures of particles. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	3
28	Polarization modulated infrared spectroscopy: A pragmatic tool for polymer science and engineering. Polymer Crystallization, 2020, 3, e10138.	0.8	5
29	Numerical analysis of the crystallization kinetics in SLS. Additive Manufacturing, 2020, 33, 101126.	3.0	6
30	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
31	Physical Ageing of Polystyrene: Does Tacticity Play a Role?. Macromolecules, 2019, 52, 5948-5954.	4.8	13
32	Viscoelastic fluid flow simulation using the contravariant deformation formulation. Journal of Non-Newtonian Fluid Mechanics, 2019, 270, 23-35.	2.4	14
33	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
34	Microfluidic Magnetic Mixing at Low Reynolds Numbers and in Stagnant Fluids. Micromachines, 2019, 10, 731.	2.9	64
35	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
36	Modelling flow induced crystallization of IPP: Multiple crystal phases and morphologies. Polymer, 2019, 182, 121806.	3.8	20

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37	Laser sintering of polymer particle pairs studied by in situ visualization. Soft Matter, 2019, 15, 1373-1387.	2.7	25
38	A numerical model for the development of the morphology of disperse blends in complex flow. Rheologica Acta, 2019, 58, 79-95.	2.4	4
39	Head-on collision of Newtonian drops in a viscoelastic medium. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	4
40	The effect of an adhesive interaction on predicting the scratch response of PS/PPO blends. Polymer, 2019, 172, 91-99.	3.8	5
41	Fully implicit interface tracking for a viscous drop under simple shear. Computers and Fluids, 2019, 184, 91-98.	2.5	2
42	A Numerical Study of Particle Migration and Sedimentation in Viscoelastic Couette Flow. Fluids, 2019, 4, 25.	1.7	6
43	Simulation of bubble growth during the foaming process and mechanics of the solid foam. Rheologica Acta, 2019, 58, 131-144.	2.4	13
44	Towards unraveling the sintering process of two polystyrene particles by numerical simulations. Korea Australia Rheology Journal, 2019, 31, 285-295.	1.7	4
45	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
46	Fluid Flow and Distributive Mixing Analysis in the Cavity Transfer Mixer. Macromolecular Theory and Simulations, 2018, 27, 1700075.	1.4	3
47	Effect of particle-size dynamics on flow properties of dense spongy-particle systems. Journal of Rheology, 2018, 62, 543-557.	2.6	8
48	Shear-Induced Migration of Rigid Particles near an Interface between a Newtonian and a Viscoelastic Fluid. Langmuir, 2018, 34, 1795-1806.	3.5	15
49	Contact mechanics of isotactic polypropylene: Effect of pre-stretch on the frictional response. Wear, 2018, 398-399, 183-190.	3.1	12
50	Temperature-dependent sintering of two viscous particles. Additive Manufacturing, 2018, 24, 528-542.	3.0	21
51	Stress relaxation of dense spongy-particle systems. Journal of Rheology, 2018, 62, 831-843.	2.6	6
52	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
53	Fluctuating viscoelasticity. Journal of Non-Newtonian Fluid Mechanics, 2018, 256, 42-56.	2.4	15
54	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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55	Two-subsystem thermodynamics for the mechanics of aging amorphous solids. Continuum Mechanics and Thermodynamics, 2017, 29, 647-663.	2.2	10
56	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
57	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
58	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
59	Effect of particle-size dynamics on properties of dense spongy-particle systems: Approach towards equilibrium. Physical Review E, 2017, 96, 012604.	2.1	10
60	Direct numerical simulation of a bubble suspension in small amplitude oscillatory shear flow. Rheologica Acta, 2017, 56, 555-565.	2.4	9
61	Sintering of Two Viscoelastic Particles: A Computational Approach. Applied Sciences (Switzerland), 2017, 7, 516.	2.5	19
62	Modeling of complex interfaces for pendant drop experiments. Rheologica Acta, 2016, 55, 801-822.	2.4	13
63	Diffuse-interface modeling of three-phase interactions. Applied Physics Letters, 2016, 108, .	3.3	6
64	Magnetic interaction of Janus magnetic particles suspended in a viscous fluid. Physical Review E, 2016, 93, 022607.	2.1	4
65	Direct numerical simulation of particle alignment in viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 125-142.	2.4	32
66	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
67	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
68	Stokesâ€“Cahnâ€“Hilliard formulations and simulations of two-phase flows with suspended rigid particles. Computers and Fluids, 2015, 111, 1-17.	2.5	31
69	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
70	Isogeometric boundary integral analysis of drops and inextensible membranes in isoviscous flow. Computers and Fluids, 2015, 109, 49-66.	2.5	11
71	Artificial cilia fabricated using magnetic fiber drawing generate substantial fluid flow. Microfluidics and Nanofluidics, 2015, 18, 167-174.	2.2	43
72	The Effect of Inertia on the Flow and Mixing Characteristics of a Chaotic Serpentine Mixer. Micromachines, 2014, 5, 1270-1286.	2.9	18

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73	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
74	An extended finite element method for a diffuse-interface model. Journal of Computational and Applied Mathematics, 2014, 272, 25-40.	2.0	3
75	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
76	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
77	A microscale pulsatile flow device for dynamic cross-slot rheometry. Sensors and Actuators A: Physical, 2014, 220, 221-229.	4.1	5
78	Monocytic Cells Become Less Compressible but More Deformable upon Activation. PLoS ONE, 2014, 9, e92814.	2.5	17
79	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
80	Out of the cleanroom, self-assembled magnetic artificial cilia. Lab on A Chip, 2013, 13, 3360.	6.0	58
81	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
82	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
83	Footprints of Lagrangian flow structures in Eulerian concentration distributions in periodic mixing flows. Physica D: Nonlinear Phenomena, 2013, 250, 20-33.	2.8	23
84	USNCCM-11: Computational fluid mechanics for free and moving boundary problems. Computers and Fluids, 2013, 87, 1.	2.5	0
85	Simulation of distributive mixing inside mixing elements of co-rotating twin-screw extruders. Computers and Fluids, 2013, 87, 79-91.	2.5	50
86	Short-time behavior of advecting-diffusing scalar fields in Stokes flows. Physical Review E, 2013, 87, 063011.	2.1	2
87	Exploiting numerical diffusion to study transport and chaotic mixing for extremely large PÃ©clet values. Europhysics Letters, 2012, 97, 14002.	2.0	10
88	An efficient approach for eigenmode analysis of transient distributive mixing by the mapping method. Physics of Fluids, 2012, 24, .	4.0	11
89	Stability and breakup of confined threads. Physics of Fluids, 2012, 24, .	4.0	17
90	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

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91	Probing Red Blood Cell Dynamics. , 2012, , .		0
92	On the performance of static mixers: A quantitative comparison. Progress in Polymer Science, 2012, 37, 1333-1349.	24.7	103
93	Collective dynamics of confined rigid spheres and deformable drops. Soft Matter, 2012, 8, 7495.	2.7	39
94	Phase separation of viscous ternary liquid mixtures. Chemical Engineering Science, 2012, 80, 270-278.	3.8	12
95	A ternary model for double-emulsion formation in a capillary microfluidic device. Lab on A Chip, 2012, 12, 2672.	6.0	49
96	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
97	Tools to Simulate Distributive Mixing in Twinâ€Screw Extruders. Macromolecular Theory and Simulations, 2012, 21, 217-240.	1.4	32
98	Cahnâ€“Hilliard modeling of particles suspended in twoâ€phase flows. International Journal for Numerical Methods in Fluids, 2012, 69, 995-1015.	1.6	21
99	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
100	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
101	Phase separation of viscous ternary liquid mixtures. , 2012, , 73-91.		0
102	Weakly-imposed Dirichlet boundary conditions for non-Newtonian fluid flow. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 993-1003.	2.4	8
103	Structure development of PMMA/SAN blends in shear flow. Chemical Engineering Science, 2011, 66, 4960-4971.	3.8	8
104	Modeling Film Drainage and Coalescence of Drops in a Viscous Fluid. Macromolecular Materials and Engineering, 2011, 296, 238-248.	3.6	48
105	Rheology, Mixing, and Flow of Polymeric Materials. Macromolecular Materials and Engineering, 2011, 296, 201-202.	3.6	1
106	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
107	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
108	Residual stresses in gas-assisted injection molding. Rheologica Acta, 2010, 49, 23-44.	2.4	5

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109	Generalized behavior of the breakup of viscous drops in confinements. Journal of Rheology, 2010, 54, 1047-1060.	2.6	48
110	A slender-body theory for low-viscosity drops in shear flow between parallel walls. Physics of Fluids, 2010, 22, 042002.	4.0	5
111	Breaking of symmetry in microfluidic propulsion driven by artificial cilia. Physical Review E, 2010, 82, 027302.	2.1	50
112	Effects of partial miscibility on drop-wall and drop-drop interactions. Journal of Rheology, 2010, 54, 159-183.	2.6	14
113	Nature-inspired microfluidic propulsion using magnetic actuation. Physical Review E, 2009, 79, 046304.	2.1	74
114	Bio-inspired Microfluidic Propulsion Through Magnetically-actuated Cilia. Materials Research Society Symposia Proceedings, 2009, 1191, 42.	0.1	0
115	Eigenmode analysis of scalar transport in distributive mixing. Physics of Fluids, 2009, 21, .	4.0	24
116	Analysis and optimization of lowâ€pressure drop static mixers. AICHE Journal, 2009, 55, 2208-2216.	3.6	26
117	Understanding and Optimizing the SMX Static Mixer. Macromolecular Rapid Communications, 2009, 30, 362-376.	3.9	65
118	Simulation of Agglomerate Dispersion in Cubic Cavity Flow. Macromolecular Theory and Simulations, 2009, 18, 201-208.	1.4	4
119	Model Development and Validation of Crystallization Behavior in Injection Molding Prototype Flows. Macromolecular Theory and Simulations, 2009, 18, 469-494.	1.4	74
120	A chaotic serpentine mixer efficient in the creeping flow regime: from design concept to optimization. Microfluidics and Nanofluidics, 2009, 7, 783.	2.2	52
121	A simplified approach to compute distribution matrices for the mapping method. Computers and Chemical Engineering, 2009, 33, 1354-1362.	3.8	27
122	Inertial flow effects in a micro-mixer based on artificial cilia. Lab on A Chip, 2009, 9, 2326.	6.0	44
123	Passive and Active Mixing in Microfluidic Devices. Macromolecular Symposia, 2009, 279, 201-209.	0.7	65
124	Numerical Study on Mixing in a Chaotic Serpentine Mixer Using a Mapping Method. , 2009, , .		0
125	Chaotic mixing using periodic and aperiodic sequences of mixing protocols in a micromixer. Microfluidics and Nanofluidics, 2008, 4, 589-599.	2.2	63
126	The mapping method as a toolbox to analyze, design, and optimize micromixers. Microfluidics and Nanofluidics, 2008, 5, 313-325.	2.2	56

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127	Optimizing the rotated arc mixer. AICHE Journal, 2008, 54, 2809-2822.	3.6	20
128	Transient interfacial tension of partially miscible polymers. Journal of Colloid and Interface Science, 2008, 325, 130-140.	9.4	7
129	A direct simulation method for flows with suspended paramagnetic particles. Journal of Computational Physics, 2008, 227, 4441-4458.	3.8	50
130	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
131	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
132	Surfactant-covered drops between parallel plates. Chemical Engineering Research and Design, 2008, 86, 1388-1396.	5.6	19
133	Artificial cilia for active micro-fluidic mixing. Lab on A Chip, 2008, 8, 533.	6.0	250
134	Microconfined equiviscous droplet deformation: Comparison of experimental and numerical results. Physics of Fluids, 2008, 20, .	4.0	32
135	Boundary-integral method for drop deformation between parallel plates. Physics of Fluids, 2007, 19, 043602.	4.0	79
136	Active micromixer based on artificial cilia. Physics of Fluids, 2007, 19, .	4.0	99
137	Chaotic mixing induced by a magnetic chain in a rotating magnetic field. Physical Review E, 2007, 76, 066303.	2.1	87
138	Diffuse-interface modelling of droplet impact. Journal of Fluid Mechanics, 2007, 581, 97-127.	3.4	64
139	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
140	Comparison of various fluidâ€“structure interaction methods for deformable bodies. Computers and Structures, 2007, 85, 833-843.	4.4	124
141	Experimental and computational study on structure development of PMMA/SAN blends. Chemical Engineering Science, 2007, 62, 1825-1837.	3.8	23
142	Chaotic advection using passive and externally actuated particles in a serpentine channel flow. Chemical Engineering Science, 2007, 62, 6677-6686.	3.8	29
143	Axisymmetric boundary integral simulations of film drainage between two viscous drops. Journal of Fluid Mechanics, 2006, 567, 65.	3.4	44
144	Experimental/Numerical Analysis of Chaotic Advection in a Three-dimensional Cavity Flow. International Polymer Processing, 2006, 21, 412-420.	0.5	9

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145	Viscoelastic Effects in Multilayer Polymer Extrusion. Applied Rheology, 2006, 16, 198-205.	5.2	40
146	Two Component Injection Molding of Phase Separating Blends. International Polymer Processing, 2006, 21, 168-174.	0.5	1
147	On scaling of diffuseâ€“interface models. Chemical Engineering Science, 2006, 61, 2364-2378.	3.8	45
148	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
149	Application of mortar elements to diffuse-interface methods. Computers and Fluids, 2006, 35, 1384-1399.	2.5	16
150	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
151	A fluidâ€“structure interaction method with solid-rigid contact for heart valve dynamics. Journal of Computational Physics, 2006, 217, 806-823.	3.8	123
152	A three-dimensional fluidâ€“structure interaction method for heart valve modelling. Comptes Rendus - Mecanique, 2005, 333, 856-866.	2.1	37
153	Diffuse Interface Modeling of Droplet Impact on a Pre-Patterned Solid Surface. Macromolecular Rapid Communications, 2005, 26, 298-303.	3.9	27
154	Chaotic advection in a cavity flow with rigid particles. Physics of Fluids, 2005, 17, 043602.	4.0	20
155	Nonsingular boundary integral method for deformable drops in viscous flows. Physics of Fluids, 2004, 16, 1064-1081.	4.0	59
156	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
157	Boundary Integral Method for Deformable Interfaces in the Presence of Insoluble Surfactants. Lecture Notes in Computer Science, 2004, , 355-362.	1.3	10
158	Diffuse interface modeling of the morphology and rheology of immiscible polymer blends. Physics of Fluids, 2003, 15, 2567-2575.	4.0	44
159	Analysis and Optimization of Kenics Static Mixers. International Polymer Processing, 2003, 18, 138-150.	0.5	54
160	Structure development during chaotic mixing in the journal bearing flow. Physics of Fluids, 2002, 14, 3009-3017.	4.0	12
161	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
162	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

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163	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
164	Morphology Development in Kenics Static Mixers (Application of the Extended Mapping Method). Canadian Journal of Chemical Engineering, 2002, 80, 604-613.	1.7	35
165	A mapping approach for three-dimensional distributive mixing analysis. Computers and Fluids, 2001, 30, 271-289.	2.5	31
166	Analyzing mixing in periodic flows by distribution matrices: Mapping method. AICHE Journal, 2001, 47, 1005-1015.	3.6	73
167	Symmetry of periodic structures in a 3D mixing cavity flow. Physics of Fluids, 2000, 12, 469-471.	4.0	6
168	An adaptive front tracking technique for three-dimensional transient flows. International Journal for Numerical Methods in Fluids, 2000, 32, 201-217.	1.6	51
169	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
170	Mixing of non-Newtonian fluids in time-periodic cavity flows. Journal of Non-Newtonian Fluid Mechanics, 2000, 93, 265-286.	2.4	40
171	Chaotic Mixing Analyses by Distribution Matrices. Applied Rheology, 2000, 10, 119-133.	5.2	20
172	Analysis of mixing in three-dimensional time-periodic cavity flows. Journal of Fluid Mechanics, 1999, 386, 149-166.	3.4	48
173	Structure evolution of suspensions under time-dependent electric or magnetic field. Multiscale and Multidisciplinary Modeling, Experiments and Design, 0, , 1.	2.1	1
174	Numerical Study of Residual Stresses Due to External Cooling in Extruded Polymer Profiles. Macromolecular Theory and Simulations, 0, , 2100074.	1.4	1