

# James Feng

## List of Publications by Year in descending order

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144  
papers

8,356  
citations

46918

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docs citations

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times ranked

5706  
citing authors

#	ARTICLE	IF	CITATIONS
1	A diffuse-interface method for simulating two-phase flows of complex fluids. <i>Journal of Fluid Mechanics</i> , 2004, 515, 293-317.	1.4	792
2	Direct simulation of initial value problems for the motion of solid bodies in a Newtonian fluid Part 1. Sedimentation. <i>Journal of Fluid Mechanics</i> , 1994, 261, 95-134.	1.4	433
3	Direct simulation of initial value problems for the motion of solid bodies in a Newtonian fluid. Part 2. Couette and Poiseuille flows. <i>Journal of Fluid Mechanics</i> , 1994, 277, 271-301.	1.4	347
4	Phase-field simulations of interfacial dynamics in viscoelastic fluids using finite elements with adaptive meshing. <i>Journal of Computational Physics</i> , 2006, 219, 47-67.	1.9	345
5	The stretching of an electrified non-Newtonian jet: A model for electrospinning. <i>Physics of Fluids</i> , 2002, 14, 3912-3926.	1.6	306
6	Sharp-interface limit of the Cahn-Hilliard model for moving contact lines. <i>Journal of Fluid Mechanics</i> , 2010, 645, 279-294.	1.4	292
7	Numerical simulations of self-propelled jumping upon drop coalescence on non-wetting surfaces. <i>Journal of Fluid Mechanics</i> , 2014, 752, 39-65.	1.4	209
8	Spontaneous shrinkage of drops and mass conservation in phase-field simulations. <i>Journal of Computational Physics</i> , 2007, 223, 1-9.	1.9	201
9	Numerical simulations of jet pinching-off and drop formation using an energetic variational phase-field method. <i>Journal of Computational Physics</i> , 2006, 218, 417-428.	1.9	194
10	Stretching of a straight electrically charged viscoelastic jet. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2003, 116, 55-70.	1.0	181
11	Formation of simple and compound drops in microfluidic devices. <i>Physics of Fluids</i> , 2006, 18, 092105.	1.6	179
12	Flow patterns in the sedimentation of an elliptical particle. <i>Journal of Fluid Mechanics</i> , 2009, 625, 249-272.	1.4	137
13	How Malaria Parasites Reduce the Deformability of Infected Red Blood Cells. <i>Biophysical Journal</i> , 2012, 103, 1-10.	0.2	136
14	Aggregation and dispersion of spheres falling in viscoelastic liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1994, 54, 45-86.	1.0	135
15	A particle-based model for the transport of erythrocytes in capillaries. <i>Chemical Engineering Science</i> , 2009, 64, 4488-4497.	1.9	123
16	Direct numerical simulation of the sedimentation of solid particles with thermal convection. <i>Journal of Fluid Mechanics</i> , 2003, 481, 385-411.	1.4	119
17	Direct simulation of the motion of solid particles in Couette and Poiseuille flows of viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 1997, 343, 73-94.	1.4	118
18	Diffuse-interface simulations of drop coalescence and retraction in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 129, 163-176.	1.0	118

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19	3D phase-field simulations of interfacial dynamics in Newtonian and viscoelastic fluids. <i>Journal of Computational Physics</i> , 2010, 229, 498-511.	1.9	108
20	Prediction of bubble growth and size distribution in polymer foaming based on a new heterogeneous nucleation model. <i>Journal of Rheology</i> , 2004, 48, 439-462.	1.3	107
21	Viscoelastic effects on drop deformation in steady shear. <i>Journal of Fluid Mechanics</i> , 2005, 540, 427.	1.4	101
22	Hydrodynamic Interactions Among Bubbles, Drops, and Particles in Non-Newtonian Liquids. <i>Annual Review of Fluid Mechanics</i> , 2018, 50, 505-534.	10.8	101
23	Self-propelled sweeping removal of dropwise condensate. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	95
24	Closure approximations for the Doi theory: Which to use in simulating complex flows of liquid-crystalline polymers?. <i>Journal of Rheology</i> , 1998, 42, 1095-1119.	1.3	94
25	Wall energy relaxation in the Cahn-Hilliard model for moving contact lines. <i>Physics of Fluids</i> , 2011, 23, .	1.6	94
26	Pressure boundary conditions for computing incompressible flows with SPH. <i>Journal of Computational Physics</i> , 2011, 230, 7473-7487.	1.9	87
27	Simulation of malaria-infected red blood cells in microfluidic channels: Passage and blockage. <i>Biomicrofluidics</i> , 2013, 7, 44115.	1.2	85
28	The unsteady motion of solid bodies in creeping flows. <i>Journal of Fluid Mechanics</i> , 1995, 303, 83-102.	1.4	81
29	Self-propelled jumping upon drop coalescence on Leidenfrost surfaces. <i>Journal of Fluid Mechanics</i> , 2014, 752, 22-38.	1.4	80
30	A theory for flowing nematic polymers with orientational distortion. <i>Journal of Rheology</i> , 2000, 44, 1085-1101.	1.3	78
31	Dynamic simulation of sedimentation of solid particles in an Oldroyd-B fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1996, 63, 63-88.	1.0	75
32	Partial coalescence between a drop and a liquid-liquid interface. <i>Physics of Fluids</i> , 2006, 18, 051705.	1.6	75
33	A computational study of the coalescence between a drop and an interface in Newtonian and viscoelastic fluids. <i>Physics of Fluids</i> , 2006, 18, 102102.	1.6	74
34	Self-Propelled Droplet Removal from Hydrophobic Fiber-Based Coalescers. <i>Physical Review Letters</i> , 2015, 115, 074502.	2.9	73
35	Wall effects on the flow of viscoelastic fluids around a circular cylinder. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1995, 60, 179-198.	1.0	70
36	Enhanced slip on a patterned substrate due to depinning of contact line. <i>Physics of Fluids</i> , 2009, 21, .	1.6	66

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37	Hydrodynamic interaction between a pair of bubbles ascending in shear-thinning inelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 118-132.	1.0	65
38	Deformation of a compound drop through a contraction in a pressure-driven pipe flow. <i>International Journal of Multiphase Flow</i> , 2008, 34, 102-109.	1.6	59
39	A Computational Model of Cell Polarization and Motility Coupling Mechanics and Biochemistry. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 1420-1443.	0.6	59
40	The turning couples on an elliptic particle settling in a vertical channel. <i>Journal of Fluid Mechanics</i> , 1994, 271, 1-16.	1.4	58
41	Plasticization effects on bubble growth during polymer foaming. <i>Polymer Engineering and Science</i> , 2006, 46, 97-107.	1.5	56
42	Liquid crystal droplet production in a microfluidic device. <i>Liquid Crystals</i> , 2007, 34, 861-870.	0.9	56
43	Wicking flow through microchannels. <i>Physics of Fluids</i> , 2011, 23, .	1.6	53
44	A general criterion for viscoelastic secondary flow in pipes of noncircular cross section. <i>Journal of Rheology</i> , 2008, 52, 315-332.	1.3	52
45	The shear flow behavior of LCPs based on a generalized Doi model with distortional elasticity. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002, 102, 361-382.	1.0	49
46	Simulation of the sedimentation of melting solid particles. <i>International Journal of Multiphase Flow</i> , 2003, 29, 751-769.	1.6	49
47	Can diffuse-interface models quantitatively describe moving contact lines?. <i>European Physical Journal: Special Topics</i> , 2011, 197, 37-46.	1.2	49
48	Dynamic simulation of the motion of capsules in pipelines. <i>Journal of Fluid Mechanics</i> , 1995, 286, 201-227.	1.4	48
49	Dynamic Evolution of Topological Defects around Drops and Bubbles Rising in a Nematic Liquid Crystal. <i>Physical Review Letters</i> , 2007, 99, 237802.	2.9	48
50	An incompressible smoothed particle hydrodynamics method for the motion of rigid bodies in fluids. <i>Journal of Computational Physics</i> , 2015, 297, 207-220.	1.9	46
51	Spreading and breakup of a compound drop on a partially wetting substrate. <i>Journal of Fluid Mechanics</i> , 2011, 682, 415-433.	1.4	45
52	A numerical investigation of the propulsion of water walkers. <i>Journal of Fluid Mechanics</i> , 2011, 668, 363-383.	1.4	45
53	A note on the forces that move particles in a second-order fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1996, 64, 299-302.	1.0	44
54	The rise of Newtonian drops in a nematic liquid crystal. <i>Journal of Fluid Mechanics</i> , 2007, 593, 385-404.	1.4	43

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55	Transient drop deformation upon startup of shear in viscoelastic fluids. <i>Physics of Fluids</i> , 2005, 17, 123101.	1.6	42
56	Anomalous rolling of spheres down an inclined plane. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1993, 50, 305-329.	1.0	41
57	Capillary breakup of a liquid torus. <i>Journal of Fluid Mechanics</i> , 2013, 717, 281-292.	1.4	41
58	Bazooka inhibits aPKC to limit antagonism of actomyosin networks during amnioserosa apical constriction. <i>Development (Cambridge)</i> , 2013, 140, 4719-4729.	1.2	41
59	Simulating complex flows of liquid-crystalline polymers using the Doi theory. <i>Journal of Rheology</i> , 1997, 41, 1317-1335.	1.3	40
60	Constitutive modeling and flow simulation of polytetrafluoroethylene (PTFE) paste extrusion. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 139, 44-53.	1.0	40
61	A three-dimensional computation of the force and torque on an ellipsoid settling slowly through a viscoelastic fluid. <i>Journal of Fluid Mechanics</i> , 1995, 283, 1-16.	1.4	39
62	A Cell-Level Biomechanical Model of Drosophila Dorsal Closure. <i>Biophysical Journal</i> , 2012, 103, 2265-2274.	0.2	39
63	Pressure-driven channel flows of a model liquid-crystalline polymer. <i>Physics of Fluids</i> , 1999, 11, 2821-2835.	1.6	38
64	Dynamic Simulation of Droplet Interaction and Self-Assembly in a Nematic Liquid Crystal. <i>Langmuir</i> , 2008, 24, 3099-3110.	1.6	38
65	An Energetic Variational Formulation with Phase Field Methods for Interfacial Dynamics of Complex Fluids: Advantages and Challenges. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2005, , 1-26.	0.5	37
66	An arbitrary Lagrangian-Eulerian method for simulating bubble growth in polymer foaming. <i>Journal of Computational Physics</i> , 2007, 226, 2229-2249.	1.9	37
67	Film deposition and transition on a partially wetting plate in dip coating. <i>Journal of Fluid Mechanics</i> , 2016, 791, 358-383.	1.4	36
68	Simulation of Neutrophil Deformation and Transport in Capillaries using Newtonian and Viscoelastic Drop Models. <i>Annals of Biomedical Engineering</i> , 2007, 35, 766-780.	1.3	34
69	Asymmetric drop coalescence launches fungal ballistospores with directionality. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170083.	1.5	34
70	The motion of solid particles suspended in viscoelastic liquids under torsional shear. <i>Journal of Fluid Mechanics</i> , 1996, 324, 199-222.	1.4	33
71	An experimental study of the coalescence between a drop and an interface in Newtonian and polymeric liquids. <i>Physics of Fluids</i> , 2006, 18, 092103.	1.6	33
72	Interfacial forces and Marangoni flow on a nematic drop retracting in an isotropic fluid. <i>Journal of Colloid and Interface Science</i> , 2005, 290, 281-288.	5.0	31

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73	A fate-alternating transitional regime in contracting liquid filaments. <i>Journal of Fluid Mechanics</i> , 2019, 860, 640-653.	1.4	31
74	Phase-field simulations of dynamic wetting of viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 189-190, 8-13.	1.0	30
75	A biomechanical model for cell polarization and intercalation during <i>Drosophila</i> germband extension. <i>Physical Biology</i> , 2015, 12, 056011.	0.8	29
76	ORIENTATION OF SYMMETRIC BODIES FALLING IN A SECOND-ORDER LIQUID AT NONZERO REYNOLDS NUMBER. <i>Mathematical Models and Methods in Applied Sciences</i> , 2002, 12, 1653-1690.	1.7	28
77	Mathematical Simulation of Muscle Cross-Bridge Cycle and Force-Velocity Relationship. <i>Biophysical Journal</i> , 2006, 91, 3653-3663.	0.2	28
78	Motion and coalescence of sessile drops driven by substrate wetting gradient and external flow. <i>Journal of Fluid Mechanics</i> , 2014, 746, 214-235.	1.4	28
79	Relative permeability for two-phase flow through corrugated tubes as model porous media. <i>International Journal of Multiphase Flow</i> , 2012, 47, 85-93.	1.6	27
80	Roll cells and disclinations in sheared nematic polymers. <i>Journal of Fluid Mechanics</i> , 2001, 449, 179-200.	1.4	26
81	Numerical simulations of the flow of dilute polymer solutions in a four-roll mill. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1997, 72, 187-218.	1.0	24
82	Elastic encapsulation in bicomponent stratified flow of viscoelastic fluids. <i>Journal of Rheology</i> , 2008, 52, 1027-1042.	1.3	24
83	A Phase-Field-Based Hybrid Lattice-Boltzmann Finite-Volume Method and Its Application to Simulate Droplet Motion under Electrowetting Control. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 1825-1851.	1.4	23
84	A Rho-GTPase based model explains spontaneous collective migration of neural crest cell clusters. <i>Developmental Biology</i> , 2018, 444, S262-S273.	0.9	23
85	Interfacial flows in corrugated microchannels: Flow regimes, transitions and hysteresis. <i>International Journal of Multiphase Flow</i> , 2011, 37, 1266-1276.	1.6	22
86	Viscoelastic effects on drop deformation in a converging pipe flow. <i>Journal of Rheology</i> , 2008, 52, 469-487.	1.3	20
87	Interaction of a pair of ferrofluid drops in a rotating magnetic field. <i>Journal of Fluid Mechanics</i> , 2018, 846, 121-142.	1.4	20
88	A Biomechanical Model for Fluidization of Cells under Dynamic Strain. <i>Biophysical Journal</i> , 2015, 108, 43-52.	0.2	18
89	Capillary-inertial colloidal catapults upon drop coalescence. <i>Applied Physics Letters</i> , 2016, 109, 011601.	1.5	18
90	Simulation of nanoparticle transport and adsorption in a microfluidic lung-on-a-chip device. <i>Biomicrofluidics</i> , 2020, 14, 044117.	1.2	18

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91	Drag force on a particle straddling a fluid interface: Influence of interfacial deformations. <i>European Physical Journal E</i> , 2020, 43, 13.	0.7	18
92	Viscoelastic flow simulation of polytetrafluoroethylene (PTFE) paste extrusion. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 153, 25-33.	1.0	16
93	A model of tear-film breakup with continuous mucin concentration and viscosity profiles. <i>Journal of Fluid Mechanics</i> , 2019, 858, 352-376.	1.4	16
94	Orientational defects near colloidal particles in a nematic liquid crystal. <i>Journal of Colloid and Interface Science</i> , 2004, 269, 72-78.	5.0	15
95	Rheology and relaxation processes in a melting thermotropic liquidâ€“crystalline polymer. <i>Journal of Applied Polymer Science</i> , 2007, 104, 3780-3787.	1.3	15
96	The critical pressure for driving a red blood cell through a contracting microfluidic channel. <i>Theoretical and Applied Mechanics Letters</i> , 2015, 5, 227-230.	1.3	15
97	Rod climbing and normal stresses in heavy crude oils at low shears. <i>Journal of Rheology</i> , 1994, 38, 1251-1270.	1.3	14
98	A novel low inertia shear flow instability triggered by a chemical reaction. <i>Physics of Fluids</i> , 2007, 19, .	1.6	14
99	Simulations of the breakup of liquid filaments on a partially wetting solid substrate. <i>Physics of Fluids</i> , 2013, 25, .	1.6	14
100	The motion of a solid sphere suspended by a Newtonian or viscoelastic jet. <i>Journal of Fluid Mechanics</i> , 1996, 315, 367-385.	1.4	13
101	Selective withdrawal of polymer solutions: Computations. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 839-851.	1.0	13
102	Dynamics of PAR Proteins Explain the Oscillation and Ratcheting Mechanisms in Dorsal Closure. <i>Biophysical Journal</i> , 2018, 115, 2230-2241.	0.2	13
103	Forced dewetting in a capillary tube. <i>Journal of Fluid Mechanics</i> , 2019, 859, 308-320.	1.4	12
104	The negative wake in a second-order fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1995, 57, 313-320.	1.0	11
105	An analytical flow model for PTFE paste through annular dies. <i>AIChE Journal</i> , 2006, 52, 4028-4038.	1.8	11
106	Heart-shaped bubbles rising in anisotropic liquids. <i>Physics of Fluids</i> , 2007, 19, 041703.	1.6	11
107	Selective withdrawal of polymer solutions: Experiments. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 829-838.	1.0	11
108	Auto-ejection of liquid drops from capillary tubes. <i>Journal of Fluid Mechanics</i> , 2014, 752, 670-692.	1.4	11

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109	Modeling the Mechanosensitivity of Neutrophils Passing through a Narrow Channel. <i>Biophysical Journal</i> , 2015, 109, 2235-2245.	0.2	11
110	Modeling cell intercalation during <i>Drosophila</i> germband extension. <i>Physical Biology</i> , 2018, 15, 066008.	0.8	11
111	Transient extension and relaxation of a dilute polymer solution in a four-roll mill. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 90, 117-123.	1.0	10
112	Size Segregation in Sheared Two-Dimensional Polydisperse Foam. <i>Langmuir</i> , 2013, 29, 1370-1378.	1.6	10
113	Boundary conditions at a gel-fluid interface. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
114	Effects of elastic anisotropy on the flow and orientation of sheared nematic liquid crystals. <i>Journal of Rheology</i> , 2003, 47, 1051-1070.	1.3	9
115	Dynamic interfacial properties between a flexible-chain polymer and a thermotropic liquid crystalline polymer investigated by an ellipsoidal drop retraction method. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1404-1410.	1.3	9
116	A Rho-GTPase based model explains group advantage in collective chemotaxis of neural crest cells. <i>Physical Biology</i> , 2020, 17, 036002.	0.8	9
117	Size-Differentiated Lateral Migration of Bubbles in Couette Flow of Two-Dimensional Foam. <i>Physical Review Letters</i> , 2012, 109, 084502.	2.9	8
118	Modeling of van der Waals force with smoothed particle hydrodynamics: Application to the rupture of thin liquid films. <i>Applied Mathematical Modelling</i> , 2020, 83, 719-735.	2.2	8
119	Anomalous coalescence in sheared two-dimensional foam. <i>Physical Review E</i> , 2012, 85, 066301.	0.8	7
120	A biomechanical model for the transendothelial migration of cancer cells. <i>Physical Biology</i> , 2020, 17, 036004.	0.8	7
121	Tear-film breakup: The role of membrane-associated mucin polymers. <i>Physical Review E</i> , 2021, 103, 013108.	0.8	7
122	The effect of normal electric field on the evolution of immiscible Rayleigh-Taylor instability. <i>Theoretical and Computational Fluid Dynamics</i> , 2016, 30, 469-483.	0.9	6
123	Bubble migration in two-dimensional foam sheared in a wide-gap Couette device: Effects of non-Newtonian rheology. <i>Journal of Rheology</i> , 2014, 58, 1809-1827.	1.3	4
124	A three-dimensional vertex model for <i>Drosophila</i> salivary gland invagination. <i>Physical Biology</i> , 2021, 18, 046005.	0.8	4
125	An arbitrary Lagrangian-Eulerian method for simulating interfacial dynamics between a hydrogel and a fluid. <i>Journal of Computational Physics</i> , 2022, 451, 110851.	1.9	4
126	Extensional viscosity of a thermotropic liquid crystalline polymer measured by thread disintegration method. <i>Polymer Testing</i> , 2005, 24, 513-518.	2.3	3

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127	Dynamic Simulation of Capillary Breakup of Nematic Fibers: Molecular Orientation and Interfacial Rupture. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 683-692.	0.4	3
128	Comment on Machado et al., "Cytoskeletal turnover and myosin contractility drive cell autonomous oscillations in a model of <i>Drosophila</i> dorsal closure". <i>European Physical Journal: Special Topics</i> , 2014, 223, 1437-1439.	1.2	3
129	Interfacial dynamics in complex fluids. <i>Journal of Fluid Science and Technology</i> , 2016, 11, JFST0021-JFST0021.	0.2	3
130	Phase-field model for elastocapillary flows of liquid crystals. <i>Physical Review E</i> , 2021, 103, 022706.	0.8	3
131	Dielectrophoretic interaction of circular particles in a uniform electric field. <i>European Journal of Mechanics, B/Fluids</i> , 2019, 78, 194-202.	1.2	2
132	A model of tear-film breakup with continuous mucin concentration and viscosity profiles " CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	1.4	2
133	Particle rotation speeds up capillary interactions. <i>European Physical Journal E</i> , 2021, 44, 30.	0.7	2
134	Temporal evolution of microstructure and rheology of sheared two-dimensional foams. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 223, 1-8.	1.0	1
135	Long term sedimentation of an elliptic disc subject to an electrostatic field using smoothed particle hydrodynamics method. <i>International Journal of Multiphase Flow</i> , 2021, 135, 103524.	1.6	1
136	10.1063/1.4955085.1., 2016, , .		1
137	Particle trapped at the isotropic-nematic liquid crystal interface: Elastocapillary phenomena and drag forces. <i>Physical Review E</i> , 2022, 105, 044607.	0.8	1
138	Dynamic interfacial tension between a thermotropic liquid-crystalline polymer and a flexible polymer. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3114-3120.	1.3	0
139	Discussion notes on "Slip velocity during the flow of a liquid over a solid surface", by E. Ruckenstein. <i>European Physical Journal: Special Topics</i> , 2011, 197, 211-211.	1.2	0
140	Occlusion of Micro-Capillaries by Malaria Infected Red Blood Cells. <i>Biophysical Journal</i> , 2013, 104, 150a.	0.2	0
141	A Cell-Level Mechanobiological Model of <i>Drosophila</i> Dorsal Closure. <i>Biophysical Journal</i> , 2013, 104, 477a.	0.2	0
142	Film deposition and transition on a partially wetting plate in dip coating " CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2016, 796, 789-789.	1.4	0
143	A mechanical test of the tenertaxis hypothesis for leukocyte diapedesis. <i>European Physical Journal E</i> , 2021, 44, 93.	0.7	0
144	Ziegler "Natta Catalysis. , 2005, , 3247-3259.		0