James P Butler

List of Publications by Year
in descending order

169 papers	15,190 citations	26630 56 h-index	20358 116 g-index
179 all docs	179 docs citations	179 times ranked	10741 citing authors

#	Article	IF	Citations
1	Scaling the Microrheology of Living Cells. Physical Review Letters, 2001, 87, 148102.	7.8	1,056
2	Physical forces during collective cell migration. Nature Physics, 2009, 5, 426-430.	16.7	989
3	Traction fields, moments, and strain energy that cells exert on their surroundings. American Journal of Physiology - Cell Physiology, 2002, 282, C595-C605.	4.6	886
4	Collective cell guidance by cooperative intercellular forces. Nature Materials, 2011, 10, 469-475.	27.5	781
5	Universal physical responses to stretch in the living cell. Nature, 2007, 447, 592-595.	27.8	626
6	Cell prestress. I. Stiffness and prestress are closely associated in adherent contractile cells. American Journal of Physiology - Cell Physiology, 2002, 282, C606-C616.	4.6	591
7	Unjamming and cell shape in the asthmatic airwayÂepithelium. Nature Materials, 2015, 14, 1040-1048.	27.5	484
8	Cytoskeletal remodelling and slow dynamics in the living cell. Nature Materials, 2005, 4, 557-561.	27.5	434
9	Mechanical waves during tissue expansion. Nature Physics, 2012, 8, 628-634.	16.7	418
10	Time scale and other invariants of integrative mechanical behavior in living cells. Physical Review E, 2003, 68, 041914.	2.1	317
11	Fast and slow dynamics of the cytoskeleton. Nature Materials, 2006, 5, 636-640.	27.5	279
12	3D Traction Forces in Cancer Cell Invasion. PLoS ONE, 2012, 7, e33476.	2.5	277
13	Reinforcement versus Fluidization in Cytoskeletal Mechanoresponsiveness. PLoS ONE, 2009, 4, e5486.	2.5	232
14	Acetazolamide improves loop gain but not the other physiological traits causing obstructive sleep apnoea. Journal of Physiology, 2012, 590, 1199-1211.	2.9	226
15	Intracellular stress tomography reveals stress focusing and structural anisotropy in cytoskeleton of living cells. American Journal of Physiology - Cell Physiology, 2003, 285, C1082-C1090.	4.6	225
16	A Microstructural Approach to Cytoskeletal Mechanics based on Tensegrity. Journal of Theoretical Biology, 1996, 181, 125-136.	1.7	212
17	Substrate stiffening promotes endothelial monolayer disruption through enhanced physical forces. American Journal of Physiology - Cell Physiology, 2011, 300, C146-C154.	4.6	205
18	Geometric constraints during epithelial jamming. Nature Physics, 2018, 14, 613-620.	16.7	196

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19	Is cytoskeletal tension a major determinant of cell deformability in adherent endothelial cells?. American Journal of Physiology - Cell Physiology, 1998, 274, C1283-C1289.	4.6	195
20	Quantifying the ventilatory control contribution to sleep apnoea using polysomnography. European Respiratory Journal, 2015, 45, 408-418.	6.7	195
21	Particle Transport and Deposition: Basic Physics of Particle Kinetics. , 2013, 3, 1437-1471.		192
22	Viscoelasticity of the human red blood cell. American Journal of Physiology - Cell Physiology, 2007, 293, C597-C605.	4.6	187
23	Selected Contribution: Time course and heterogeneity of contractile responses in cultured human airway smooth muscle cells. Journal of Applied Physiology, 2001, 91, 986-994.	2.5	167
24	Propulsion and navigation within the advancing monolayer sheet. Nature Materials, 2013, 12, 856-863.	27.5	161
25	Monolayer Stress Microscopy: Limitations, Artifacts, and Accuracy of Recovered Intercellular Stresses. PLoS ONE, 2013, 8, e55172.	2.5	156
26	Mechanical properties of cultured human airway smooth muscle cells from 0.05 to 0.4 Hz. Journal of Applied Physiology, 2000, 89, 1619-1632.	2.5	146
27	Cellular Contraction and Polarization Drive Collective Cellular Motion. Biophysical Journal, 2016, 110, 2729-2738.	0.5	135
28	Prestress mediates force propagation into the nucleus. Biochemical and Biophysical Research Communications, 2005, 329, 423-428.	2.1	134
29	Hyperpolarized 129Xe MRI: A viable functional lung imaging modality?. European Journal of Radiology, 2007, 64, 335-344.	2.6	130
30	Collective migration and cell jamming in asthma, cancer and development. Journal of Cell Science, 2016, 129, 3375-83.	2.0	126
31	Mechanical anisotropy of adherent cells probed by a three-dimensional magnetic twisting device. American Journal of Physiology - Cell Physiology, 2004, 287, C1184-C1191.	4.6	125
32	Effects of Increasing the Frequency of Low Doses of Gonadotropin-Releasing Hormone (GnRH) on Gonadotropin Secretion in GnRH-Deficient Men*. Journal of Clinical Endocrinology and Metabolism, 1987, 64, 1179-1186.	3.6	123
33	Perturbed Equilibria of Myosin Binding in Airway Smooth Muscle: Bond-Length Distributions, Mechanics, and ATP Metabolism. Biophysical Journal, 2000, 79, 2667-2681.	0.5	123
34	Airway Hyperresponsiveness, Remodeling, and Smooth Muscle Mass. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 264-272.	2.9	122
35	Human Pulmonary Imaging and Spectroscopy with Hyperpolarized 129Xe at 0.2T. Academic Radiology, 2008, 15, 713-727.	2.5	121
36	Quantifying the Arousal Threshold Using Polysomnography in Obstructive Sleep Apnea. Sleep, 2018, 41, .	1.1	119

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37	Linearity and time-scale invariance of the creep function in living cells. Journal of the Royal Society Interface, 2004, 1, 91-97.	3.4	115
38	Chaotic mixing deep in the lung. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10173-10178.	7.1	112
39	An Integrative Model of Physiological Traits Can be Used to Predict Obstructive Sleep Apnea and Response to Non Positive Airway Pressure Therapy. Sleep, 2015, 38, 961-70.	1.1	110
40	In primary airway epithelial cells, the unjamming transition is distinct from the epithelial-to-mesenchymal transition. Nature Communications, 2020, 11, 5053.	12.8	107
41	Airflow Shape Is Associated With the Pharyngeal Structure Causing OSA. Chest, 2017, 152, 537-546.	0.8	106
42	Enhanced Upper-Airway Muscle Responsiveness Is a Distinct Feature of Overweight/Obese Individuals without Sleep Apnea. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 930-937.	5.6	104
43	Mechanical Properties of the Upper Airway. , 2012, 2, 1853-1872.		99
44	Identifying obstructive sleep apnoea patients responsive to supplemental oxygen therapy. European Respiratory Journal, 2018, 52, 1800674.	6.7	96
45	Kisspeptin Resets the Hypothalamic GnRH Clock in Men. Journal of Clinical Endocrinology and Metabolism, 2011, 96, E908-E915.	3.6	94
46	Cytoskeleton dynamics: Fluctuations within the network. Biochemical and Biophysical Research Communications, 2007, 355, 324-330.	2.1	90
47	Transfer Entropy Estimation and Directional Coupling Change Detection in Biomedical Time Series. BioMedical Engineering OnLine, 2012, 11, 19.	2.7	86
48	Kisspeptin Administration to Women: A Window into Endogenous Kisspeptin Secretion and GnRH Responsiveness across the Menstrual Cycle. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E1458-E1467.	3.6	86
49	Cytoskeletal mechanics in adherent human airway smooth muscle cells: probe specificity and scaling of protein-protein dynamics. American Journal of Physiology - Cell Physiology, 2004, 287, C643-C654.	4.6	85
50	Diffusion of hyperpolarized¹²⁹Xe in the lung: a simplified model of¹²⁹Xe septal uptake and experimental results. New Journal of Physics, 2011, 13, 015009.	2.9	78
51	Implications of heterogeneous bead behavior on cell mechanical properties measured with magnetic twisting cytometry. Journal of Magnetism and Magnetic Materials, 1999, 194, 120-125.	2.3	77
52	Low intensity ultrasound perturbs cytoskeleton dynamics. Soft Matter, 2012, 8, 2438.	2.7	73
53	Rat airway smooth muscle cell during actin modulation: rheology and glassy dynamics. American Journal of Physiology - Cell Physiology, 2005, 289, C1388-C1395.	4.6	69
54	Gas and aerosol mixing in the acinus. Respiratory Physiology and Neurobiology, 2008, 163, 139-149.	1.6	68

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55	Mapping the cytoskeletal prestress. American Journal of Physiology - Cell Physiology, 2010, 298, C1245-C1252.	4.6	66
56	Unidirectional pulmonary airflow patterns in the savannah monitor lizard. Nature, 2014, 506, 367-370.	27.8	64
57	Transpulmonary pressures and lung mechanics with glossopharyngeal insufflation and exsufflation beyond normal lung volumes in competitive breath-hold divers. Journal of Applied Physiology, 2007, 102, 841-846.	2.5	62
58	Differential gait kinematics between fallers and non-fallers in community-dwelling elderly people. Geriatrics and Gerontology International, 2005, 5, 127-134.	1.5	60
59	High-throughput screening for modulators of cellular contractile force. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	60
60	Inspiratory valving in avian bronchi: aerodynamic considerations. Respiration Physiology, 1988, 72, 241-255.	2.7	58
61	Mechanosensing of substrate thickness. Physical Review E, 2010, 82, 041918.	2.1	58
62	Nanoparticle delivery in infant lungs. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5092-5097.	7.1	58
63	Fluidization, resolidification, and reorientation of the endothelial cell in response to slow tidal stretches. American Journal of Physiology - Cell Physiology, 2012, 303, C368-C375.	4.6	54
64	Bird lung models show that convective inertia effects inspiratory aerodynamic valving. Respiration Physiology, 1988, 73, 111-124.	2.7	53
65	Effects of hyperoxia and hypoxia on the physiological traits responsible for obstructive sleep apnoea. Journal of Physiology, 2014, 592, 4523-4535.	2.9	53
66	Coordinated Movements Prevent Jamming in an Emperor Penguin Huddle. PLoS ONE, 2011, 6, e20260.	2.5	49
67	Inspiratory aerodynamic valving in goose lungs depends on gas density and velocity. Respiration Physiology, 1987, 70, 287-300.	2.7	47
68	Acinar flow irreversibility caused by perturbations in reversible alveolar wall motion. Journal of Applied Physiology, 1999, 86, 977-984.	2.5	45
69	Mechanical Connections Between Elastin and Collagen. Connective Tissue Research, 1994, 30, 295-308.	2.3	44
70	Respiration and heart rate complexity: Effects of age and gender assessed by band-limited transfer entropy. Respiratory Physiology and Neurobiology, 2013, 189, 27-33.	1.6	43
71	A novel jamming phase diagram links tumor invasion to non-equilibrium phase separation. IScience, 2021, 24, 103252.	4.1	43
72	Bio- and Immunoactive Luteinizing Hormone Responses to Low Doses of Gonadotropin-Releasing Hormone (GnRH): Dose-Response Curves in GnRH-Deficient Men*. Journal of Clinical Endocrinology and Metabolism, 1986, 63, 143-150.	3.6	42

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73	Unjamming and collective migration in MCF10A breast cancer cell lines. Biochemical and Biophysical Research Communications, 2020, 521, 706-715.	2.1	42
74	Pressure profiles show features essential to aerodynamic valving in geese. Respiration Physiology, 1991, 84, 295-309.	2.7	39
75	Model-based characterization of ventilatory stability using spontaneous breathing. Journal of Applied Physiology, 2011, 111, 55-67.	2.5	38
76	Assessing the impact of engineered nanoparticles on wound healing using a novel in vitro bioassay. Nanomedicine, 2014, 9, 2803-2815.	3.3	38
77	Lubrication regimes in mesothelial sliding. Journal of Biomechanics, 2005, 38, 2390-2396.	2.1	37
78	Pituitary Luteinizing Hormone Responses to Intravenous and Subcutaneous Administration of Gonadotropin-Releasing Hormone in Men*. Journal of Clinical Endocrinology and Metabolism, 1985, 61, 890-895.	3.6	36
79	Intracellular elasticity and viscosity in the body, leading, and trailing regions of locomoting neutrophils. American Journal of Physiology - Cell Physiology, 1999, 277, C432-C440.	4.6	36
80	Pendelluft in the bronchial tree. Journal of Applied Physiology, 2014, 117, 979-988.	2.5	35
81	Upper airway collapsibility and patterns of flow limitation at constant end-expiratory lung volume. Journal of Applied Physiology, 2012, 113, 691-699.	2.5	35
82	Inspiratory aerodynamic valving in goose lungs depends on gas density and velocity. Respiration Physiology, 1987, 70, 287-300.	2.7	34
83	Febrile temperature leads to significant stiffening ofPlasmodium falciparumparasitized erythrocytes. American Journal of Physiology - Cell Physiology, 2009, 296, C59-C64.	4.6	33
84	Singleâ€breath xenon polarization transfer contrast (SBâ€XTC): Implementation and initial results in healthy humans. Journal of Magnetic Resonance Imaging, 2013, 37, 457-470.	3.4	31
85	Epithelial layer unjamming shifts energy metabolism toward glycolysis. Scientific Reports, 2020, 10, 18302.	3.3	30
86	Tube Law of the Pharyngeal Airway in Sleeping Patients with Obstructive Sleep Apnea. Sleep, 2016, 39, 337-343.	1.1	29
87	Exogenous Kisspeptin Administration as a Probe of GnRH Neuronal Function in Patients With Idiopathic Hypogonadotropic Hypogonadism. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2762-E2771.	3.6	28
88	The classical Starling resistor model often does not predict inspiratory airflow patterns in the human upper airway. Journal of Applied Physiology, 2014, 116, 1105-1112.	2.5	28
89	Out-of-equilibrium dynamics in the cytoskeleton of the living cell. Physical Review E, 2007, 76, 041901.	2.1	26
90	Test of the Starling resistor model in the human upper airway during sleep. Journal of Applied Physiology, 2014, 117, 1478-1485.	2.5	25

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91	Remodeling of Integrated Contractile Tissues and Its Dependence on Strain-Rate Amplitude. Physical Review Letters, 2010, 105, 158102.	7.8	24
92	Mini-Emotional State Examination for dementia patients. Geriatrics and Gerontology International, 2014, 14, 508-513.	1.5	24
93	Kisspeptin Responsiveness Signals Emergence of Reproductive Endocrine Activity: Implications for Human Puberty. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3061-3069.	3.6	24
94	Transient stretch induces cytoskeletal fluidization through the severing action of cofilin. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 314, L799-L807.	2.9	24
95	Poissons' ratio of lung parenchyma and parenchymal interaction with bronchi.. The Japanese Journal of Physiology, 1986, 36, 91-106.	0.9	23
96	Elastohydrodynamic separation of pleural surfaces during breathing. Respiratory Physiology and Neurobiology, 2003, 137, 97-106.	1.6	23
97	Length adaptation of airway smooth muscle: a stochastic model of cytoskeletal dynamics. Journal of Applied Physiology, 2005, 99, 2087-2098.	2.5	23
98	Balanced aging, or successful aging?. Geriatrics and Gerontology International, 2011, 11, 1-2.	1.5	23
99	Glassy Dynamics, Cell Mechanics, and Endothelial Permeability. Journal of Physical Chemistry B, 2013, 117, 12850-12856.	2.6	23
100	Acoustic Pharyngometry Measurement of Minimal Cross-Sectional Airway Area Is a Significant Independent Predictor of Moderate-To-Severe Obstructive Sleep Apnea. Journal of Clinical Sleep Medicine, 2013, 09, 1161-1164.	2.6	23
101	Emotional function in dementia patients. Psychogeriatrics, 2014, 14, 202-209.	1.2	23
102	Directional memory and caged dynamics in cytoskeletal remodelling. Biochemical and Biophysical Research Communications, 2007, 360, 797-801.	2.1	22
103	Comparison of four methods for cross-calibrating dual-energy x-ray absorptiometers to eliminate systematic errors when upgrading equipment. Journal of Bone and Mineral Research, 1994, 9, 1945-1952.	2.8	21
104	Modeling the adenosine system as a modulator of cognitive performance and sleep patterns during sleep restriction and recovery. PLoS Computational Biology, 2017, 13, e1005759.	3.2	21
105	Resonance as the Mechanism of Daytime Periodic Breathing in Patients with Heart Failure. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 237-246.	5.6	20
106	Influence of pharyngeal muscle activity on inspiratory negative effort dependence in the human upper airway. Respiratory Physiology and Neurobiology, 2014, 201, 55-59.	1.6	19
107	New Lessons of Nurturing Life for Geriatric Patients. Tohoku Journal of Experimental Medicine, 2012, 227, 203-210.	1.2	18
108	Non-equilibrium cytoquake dynamics in cytoskeletal remodeling and stabilization. Soft Matter, 2016, 12, 8506-8511.	2.7	17

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109	Logistic trajectory maps and aerosol mixing due to asynchronous flow at airway bifurcations. Respiratory Physiology and Neurobiology, 2005, 148, 195-206.	1.6	16
110	Distribution and Quantity of Contractile Tissue in Postnatal Development of Rat Alveolar Interstitium. Anatomical Record, 2008, 291, 83-93.	1.4	16
111	Determinants of friction in soft elastohydrodynamic lubrication. Journal of Biomechanics, 2009, 42, 1069-1074.	2.1	16
112	Long-range stress transmission guides endothelial gap formation. Biochemical and Biophysical Research Communications, 2018, 495, 749-754.	2.1	16
113	Reduced xenon diffusion for quantitative lung study?the role of SF6. NMR in Biomedicine, 2000, 13, 229-233.	2.8	15
114	Finite element simulation of elastohydrodynamic lubrication of soft biological tissues. Computers and Structures, 2007, 85, 1114-1120.	4.4	15
115	Transport of Gases between the Environment and Alveoliâ€"Theoretical Foundations. , 2011, 1, 1301-1316.		15
116	Stiffness of the pleural surface of the chest wall is similar to that of the lung. Journal of Applied Physiology, 2003, 95, 2345-2349.	2.5	14
117	Relative motion of lung and chest wall promotes uniform pleural space thickness. Respiratory Physiology and Neurobiology, 2002, 131, 233-243.	1.6	13
118	Viscoelastic and Motile Properties of Hamster Lung and Peritoneal Macrophages. Journal of Leukocyte Biology, 1991, 50, 240-251.	3.3	12
119	Toe clearance rehabilitative slipper for gait disorder in the elderly. Geriatrics and Gerontology International, 2007, 7, 310-311.	1.5	12
120	Inhalation heterogeneity from subresidual volumes in elite divers. Journal of Applied Physiology, 2010, 109, 1969-1973.	2.5	12
121	CrossTalk opposing view: The human upper airway during sleep does not behave like a Starling resistor. Journal of Physiology, 2013, 591, 2233-2234.	2.9	12
122	The tumor suppressor p53 can promote collective cellular migration. PLoS ONE, 2019, 14, e0202065.	2.5	12
123	Interaction of non-adherent suspended neutrophils to complement opsonized pathogens: a new assay using optical traps. Cell Research, 2006, 16, 887-894.	12.0	11
124	Efficacy of white noise therapy for dementia patients with schizophrenia. Geriatrics and Gerontology International, 2013, 13, 808-810.	1.5	11
125	Contact guidance and collective migration in the advancing epithelial monolayer. Connective Tissue Research, 2018, 59, 309-315.	2.3	11
126	Increased surface tension decreases pulmonary capillary volume and compliance. Journal of Applied Physiology, 2002, 93, 1023-1029.	2.5	10

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127	Imaging Stress Propagation in the Cytoplasm of a Living Cell. Methods in Cell Biology, 2007, 83, 179-198.	1.1	10
128	Dynamics of the cytoskeleton: How much does water matter?. Physical Review E, 2011, 83, 061918.	2.1	10
129	Hopping Hoops Don't Hop. American Mathematical Monthly, 1999, 106, 565.	0.3	10
130	Contour of the GnRH Pulse Independently Modulates Gonadotropin Secretion in the Human Male. Neuroendocrinology, 1996, 64, 247-256.	2.5	9
131	Hopping Hoops Don't Hop. American Mathematical Monthly, 1999, 106, 565-568.	0.3	9
132	Stable Breathing in Patients With Obstructive Sleep Apnea Is Associated With Increased Effort but Not Lowered Metabolic Rate. Sleep, 2017, 40, .	1.1	9
133	Gammaâ€oryzanol for behavioural and psychological symptoms of dementia. Psychogeriatrics, 2018, 18, 151-152.	1.2	8
134	Effect of surface tension on alveolar surface area. Journal of Applied Physiology, 2002, 93, 1015-1022.	2.5	7
135	Thermodynamic origin of cooperativity in actomyosin interactions: The coupling of short-range interactions with actin bending stiffness in an Ising-like model. Physical Review E, 2009, 79, 041906.	2.1	7
136	Kinetics of Phagocytosis and Phagosome-Lysosome Fusion in Hamster Lung and Peritoneal Macrophages. Journal of Leukocyte Biology, 1991, 50, 229-239.	3.3	6
137	Hydrodynamic thickening of lubricating fluid layer beneath sliding mesothelial tissues. Journal of Biomechanics, 2008, 41, 1197-1205.	2.1	6
138	Influence of the softness of the parietal pleura on respiratory sliding mechanisms. Respiratory Physiology and Neurobiology, 2011, 177, 114-119.	1.6	6
139	The Pharyngeal Airway. Chest, 2012, 141, 1372-1375.	0.8	6
140	The Green's function for the convection-diffusion equation in an analytic lung model. The Bulletin of Mathematical Biophysics, 1977, 39, 543-563.	0.5	5
141	Stereology of Dihedral Angles I: First Two Moments. SIAM Journal on Applied Mathematics, 1987, 47, 670-677.	1.8	5
142	Fractional changes in lung capillary blood volume and oxygen saturation during the cardiac cycle in rabbits. Journal of Applied Physiology, 1997, 82, 1668-1676.	2.5	5
143	A Potential Elastohydrodynamic Origin of Load-Support and Coulomb-Like Friction in Lungâ•Chest Wall Lubrication. Journal of Tribology, 2008, 130, 41201.	1.9	5
144	Potential hydrodynamic origin of frictional transients in sliding mesothelial tissues. Friction, 2013, 1, 163-177.	6.4	5

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145	â€œVentilatory alternansâ€• A leftâ€“right alternation of inspiratory airflow in humans. Respiratory Physiology and Neurobiology, 2013, 185, 468-471.	1.6	5
146	Antipsychotic drug use and favourable natures of emotional functions in patients with dementia. Psychogeriatrics, 2019, 19, 320-324.	1.2	5
147	Compressive Stress Causes an Unjamming Transition and an Epithelialâ€“Mesenchymal Transition in the Airway Epithelium in Asthma. Annals of the American Thoracic Society, 2016, 13, S102-S102.	3.2	5
148	Effect of macroscopic deformation on lung microstructure. Journal of Applied Physiology, 1996, 81, 1792-1799.	2.5	4
149	Influence of lung volume on pulmonary microvascular pressure-volume characteristics. Journal of Applied Physiology, 2000, 89, 1591-1600.	2.5	4
150	Dramatic Performance by a Professional Actor for the Treatment of Patients with Behavioral and Psychological Symptoms of Dementia. Tohoku Journal of Experimental Medicine, 2020, 252, 263-267.	1.2	4
151	Stereology of Dihedral Angles II: Distribution Function. SIAM Journal on Applied Mathematics, 1987, 47, 678-687.	1.8	3
152	Marked pericardial inhomogeneity of specific ventilation at total lung capacity and beyond. Respiratory Physiology and Neurobiology, 2009, 169, 44-49.	1.6	3
153	Comment on â€œIntracellular stresses in patterned cell assembliesâ€•by M. Moussus et al., Soft Matter, 2014, 10, 2414. Soft Matter, 2014, 10, 7681-7682.	2.7	3
154	Core symptoms and peripheral symptoms of dementia. Geriatrics and Gerontology International, 2018, 18, 979-980.	1.5	3
155	The Cytoskeleton of the Living Cell as an Out-of-Equilibrium System. , 2008, , 111-141.		3
156	Comment on â€œInterplay between Geometry and Flow Distribution in an Airway Treeâ€• Physical Review Letters, 2004, 93, 049801; author reply 049802.	7.8	2
157	Science to Practice: How Do We Interpret the Transfer of Hyperpolarized¹²⁹Xe from Blood into Alveolar Gas?. Radiology, 2009, 252, 319-321.	7.3	2
158	Probing softness of the parietal pleural surface at the micron scale. Journal of Biomechanics, 2011, 44, 2558-2564.	2.1	2
159	A <scp>J</scp>apanese fairy tale, <scp>U</scp>rashima <scp>T</scp>aro, and dementia. Psychogeriatrics, 2015, 15, 279-280.	1.2	2
160	Relationship between velocities, tractions, and intercellular stresses in the migrating epithelial monolayer. Physical Review E, 2020, 101, 062405.	2.1	2
161	Forces, Flows, Fluorescence, and Î¼ Fluidics. Biophysical Journal, 2017, 112, 1293-1294.	0.5	1
162	The Perimeter of a Rose. American Mathematical Monthly, 1991, 98, 139-143.	0.3	0

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163	Rebuttal from James P. Butler, Robert L. Owens, Atul Malhotra and Andrew Wellman. Journal of Physiology, 2013, 591, 2237-2237.	2.9	0
164	Ocean wave energy, solar radiation, and characteristic times on the back of a Purcell envelope. American Journal of Physics, 2019, 87, 693-693.	0.7	0
165	Emotional therapy using Internet of Things for behavioral and psychological symptoms of dementia. Geriatrics and Gerontology International, 2020, 20, 502-503.	1.5	0
166	Cytoskeletal Fluidization and Resolidification are Required for Reorientation of Endothelial Cells. , 2012, , .		0
167	Monolayer Stress Microscopy: limitations, artifacts, and accuracy of recovered intercellular stresses. FASEB Journal, 2013, 27, 1217.5.	0.5	0
168	Navigation within the cellular monolayer. FASEB Journal, 2013, 27, 1217.18.	0.5	0
169	MRI of Pulmonary Ventilation. Medical Radiology, 2009, , 35-90.	0.1	0